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 P	AC 45024290.26
С	Extra Charges	
C.001	Provision for GST	
	45024290.26 18.00%	8104372.25
	Grand To	otal 53128662.51
	Round	off 871337.49
	Rounded Total	Rs) 5400000.00
	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 lev	velling and	d Road forma	ntion							
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	Earth work in excavation by mechanical means									
	for road formation & levelling	1.0000 0	50.000	3.500	0.400		70.000				
	for land levelling	1.0000 0	10.000	17.500	1.000		175.000				
	for compound wall	1.0000	188.000	- 0.600	0.600		67.680				
	Total						312.680				
			OF PUBLIC V	Tot	tal Quantity	v in cum	312.680				
1.002	50.2.26.1 Filling with contra exceeding 20 cm ii	ctor own on depth. c	earth (exclud	ing rock) in c	pen areas in d laver by ra	layers no	ot ind				
1.002		n depth, c	onsolidating	each deposite	d layer by ra	amming a	und				
1.002	Filling with contra exceeding 20 cm in watering, lead up t	n depth, c	onsolidating	each deposite	d layer by ra	amming a	und				
1.002	Filling with contra exceeding 20 cm in watering, lead up t charge.	n depth, c	onsolidating	each deposite	d layer by ra	amming a	und eer-in-				
1.002	Filling with contra exceeding 20 cm in watering, lead up t charge. Earth filling	n depth, co o 50 m an	onsolidating ond lift up to 1.	each deposite 5 m as per di	d layer by rarection of si	amming a	und eer-in- 576.000				
1.002	Filling with contra exceeding 20 cm in watering, lead up t charge. Earth filling for site levelling	n depth, co o 50 m an	onsolidating ond lift up to 1.	each deposite 5 m as per di 12.000	d layer by rarection of si	amming <i>a</i> te Engine	und				
	Filling with contra exceeding 20 cm in watering, lead up t charge. Earth filling for site levelling	n depth, co o 50 m an	onsolidating ond lift up to 1.	each deposite 5 m as per di 12.000	d layer by ra rection of si 0.800	amming <i>a</i> te Engine	und eer-in- 576.000 576.000				
	Filling with contra exceeding 20 cm in watering, lead up t charge. Earth filling for site levelling Total	n depth, co o 50 m an 1.0000 0 ng factory lawns, dri ize/ shape ump; patte /laying of compactio ocks as pe	onsolidating on solidating of a lift up to 1. 60.000 7 made chamf ive ways or lite, made by tak rn over 50mr inter locking pler required size or by using pler required size or direction of	each deposite 5 m as per di 12.000 Tot Fered edge Ce ght traffic pa ole vibratory n thick comp paver blocks late vibrator, ze and patterr of Engineer-in	ad layer by ra rection of si 0.800 tal Quantity ement Concr rking etc, of method usin acted bed of into the san filling the jo a, finishing a p-Charge.80	ete paver required g PU mo sand, co d beddin ints with and sweep mm thicl	blocks strength, uld, laid in mpacting g layer sand and bing				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	for foot path	1.0000	100.000	2.000			200.000
	Total						200.000
				Тс	otal Quantit	y in sqm	200.000
1.004	4.1.3						
	Providing and layi of centering and sh (zone-III) : 4 grade	nuttering -	- All work up	to plinth lev	vel:1:2:4 (cer		
	CC 1:2:4						
	For road	1.0000	50.000	3.500	0.200		35.000
	Total						35.000
				Τα	otal Quantit	y in cum	35.000
1.005	7.1.1						
	Random rubble ma up with cement co 20 mm nominal siz sand)	ncrete 1:6	5:12 (1 cemer	nt: 6 coarse s	sand : 12 gra	ded stone	aggregate
	Random rubble	masonry		J			
	For compound wall	1.0000	188.000	0.600	0.600		67.680
	Total		OF PUBLIC	WORKS			67.680
				Τα	otal Quantit	y in cum	67.680
1.006	50.6.3.2						
	Solid block mason or nearest availabl floor two level for cost of scaffolding	e size con 10 cm th	firming to IS ick wall in : (2185 part I	of 1979 for s	super struc	cture up to
	Solid block maso	nry using	pre cast soli	d blocks			
	For compound wall	1.0000	159.000	0.200	1.500		47.700
	piller	94.000 00	0.300	0.300	1.500		12.690
	Gate piller	2.0000 0	0.500	0.500	1.500		0.750
	Total						61.140
				Тс	otal Quantit	y in cum	61.140
1.007	13.1.2						
	12 mm cement pla		x:1:6 (1 cem	ent : 6 fine s	and).		
	12 mm cement pl						
	For compound wall	1.0000	159.000		3.200		508.800

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	For piller	94.000 00	1.200		3.200		360.960			
	For Gate piller	$2.0000 \\ 0$	2.000		3.200		12.800			
	For Gate piller top	$2.0000 \\ 0$	0.500	0.500			0.500			
	Total						883.060			
				Тс	otal Quantit	y in sqm	883.060			
1.008	10.25.2									
	Item Shifted to hea Steel work welded in position and app etc. as required.In similar works	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 gat		680							
		$\begin{array}{c} 1.0000\\ 0\end{array}$	150.000	840TAL			150.000			
	Total						150.000			
					Fotal Quant	ity in kg	150.000			
1.009	13.43.1									
	Applying one coat manufacture on wa					brand and				
	Applying one coa	at of water	thinnable co	ement primer	•					
	For compound wall	1.0000 0	883.060				883.060			
	Total						883.060			
				Тс	otal Quantit	y in sqm	883.060			
1.010	13.60.1									
	Wall painting with an even shade:Two				d brand and	manufactu	re to give			
	Wall painting wit	h acrylic	emulsion pai	nt						
		1.0000 0	883.060				883.060			
	Total						883.060			
				То	otal Quantit	y in sqm	883.060			
2	Construction of A	erator								
2.001	2.6.1									
	Earth work in exca over areas (exceed including disposal earth to be levelled	ing 30 cm of excava	in depth, 1. ted earth, lea	5 m in width ad up to 50 n	as well as 10 and lift up	0 sqm on j	plan)			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Earth work excava	ation							
	column footing	4.0000	1.200	1.200	1.500		8.640		
	column footing center column	1.0000	1.200	1.200	1.500		2.160		
	Total						10.800		
				Tot	tal Quantity	y in cum	10.800		
2.002	4.1.3								
	Providing and layi of centering and sl (zone-III) : 4 grade	nuttering -	All work up	to plinth leve	el:1:2:4 (cen				
	PCC 1:2:4								
	PCC for column	4.0000	1.200	1.200	0.150		0.864		
	Centre column	1.0000 0	1.200	1.200	0.150		0.21		
	Total								
			4 0.0						
2.003	OD196840/2023-2 DOWEL BARS - long (1m in rock a of 1m in rock and	Supplying nd 1m in c	concrete) inc	g MS dowel luding drillin	ig holes of 2	16 mm d Omm dia	ia of 2m to a depth		
2.003	DOWEL BARS - long (1m in rock a	Supplying nd 1m in c	concrete) inc	g MS dowel luding drillin	bars of size ig holes of 2	16 mm d Omm dia	ia of 2m to a depth lete.		
2.003	DOWEL BARS - long (1m in rock a of 1m in rock and	Supplying nd 1m in c filling the 25.000	concrete) inc	g MS dowel luding drillin	bars of size ig holes of 2	16 mm d Omm dia	ia of 2m to a depth lete. 25.000		
2.003	DOWEL BARS - long (1m in rock a of 1m in rock and DOWEL BARS	Supplying nd 1m in c filling the 25.000	concrete) inc	g MS dowel luding drillin hent grout(0.	bars of size ig holes of 2	16 mm d Omm dia etc comp	ia of 2m to a depth lete. 25.000 25.00 0		
	DOWEL BARS - long (1m in rock a of 1m in rock and DOWEL BARS Total 5.33.1	Supplying nd 1m in c filling the 25.000 00	concrete) inc gap with cem	g MS dowel luding drillin hent grout(0.	bars of size ag holes of 2 10kg/each)	16 mm d Omm dia etc comp ity in no	to a depth lete. 25.000 25.000 25.000		
	DOWEL BARS - long (1m in rock and of 1m in rock and DOWEL BARS Total 5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor	Supplying nd 1m in o filling the 25.000 00 ng in posi oncrete for esign mix, of centeri ommended workabilitieer - in-ch ess or less k upto plin	tion machine r reinforced c including pur ng, shuttering proportions a ty without im arge. Note:- C cement used a	g MS dowel luding drillin nent grout(0. T batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design	bars of size ag holes of 2 <u>10kg/each</u>) botal Quant botal Quant machine mi ete work, us acrete to site and reinforce 3 to acceler gth and dura ent considere mix is paya	16 mm d Omm dia etc comp ity in no ity in no xed desig ing cemer of laying ment, inc rate, retard ability as ed in this	ia of 2m to a depth lete. 25.00 25.00 25.00 25.00 25.00 25.00 d setting of per item is @		
	DOWEL BARS - long (1m in rock and of 1m in rock and DOWEL BARS Total 5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor Design r	Supplying nd 1m in o filling the 25.000 00 ng in posi oncrete fo esign mix, of centeri ommended workabilitieer - in-ch ess or less k upto plin nix M-25	tion machine r reinforced c including pur ng, shuttering proportions a ty without im arge. Note:- C cement used a	g MS dowel luding drillin nent grout(0. T batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design	bars of size ag holes of 2 <u>10kg/each</u>) botal Quant botal Quant machine mi ete work, us acrete to site and reinforce 3 to acceler gth and dura ent considere mix is paya	16 mm d Omm dia etc comp ity in no ity in no xed desig ing cemer of laying ment, inc rate, retard ability as ed in this	ia of 2m to a depth lete. 25.00 25.00 25.00 25.00 25.00 25.00 d setting of per item is @		
	DOWEL BARS - long (1m in rock and of 1m in rock and DOWEL BARS Total 5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor	Supplying nd 1m in o filling the 25.000 00 ng in posi oncrete for esign mix, of centeri ommended workabilitieer - in-ch ess or less k upto plin	tion machine r reinforced c including pur ng, shuttering proportions a ty without im arge. Note:- C cement used a	g MS dowel luding drillin nent grout(0. T batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design	bars of size ag holes of 2 <u>10kg/each</u>) botal Quant botal Quant machine mi ete work, us acrete to site and reinforce 3 to acceler gth and dura ent considere mix is paya	16 mm d Omm dia etc comp ity in no ity in no xed desig ing cemer of laying ment, inc rate, retard ability as ed in this	ia of 2m to a depth lete. 25.0000 25.0000 25.0000 25.0000 25.0000 25.00000 25.0000000000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	RCC Foundation - for center column	1.0000 0	1.100	1.100	0.200		0.242			
	RCC Foundation - for center column	1.0000 0	0.650	0.650	0.450		0.190			
	column up to plinth level	$4.0000 \\ 0$	0.300	0.300	0.650		0.234			
	center column up to plinth level	1.0000 0	3.14*.4	0.150	1.000		0.188			
	Plinth beam	1.0000 0	3.14*2.55	0.300	0.450		1.081			
	Total						4.151			
				To	tal Quantity	y in cum	4.151			
2.005	5.33.2									
	concrete, improve direction of Engine 330 kg/ cum. Exce separately.All wor	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 mi	x M-25 , all y	vork shove r						
				NOIK above p	linth level					
	column	4.0000	0.300	0.300	4.000		1.44(
	column central column		0.300				1.440			
		4.0000 0 3.1400		0.300	4.000					
	central column	4.0000 0 3.1400 0 3.1400	0.400	0.300	4.000 6.400		1.200			
	central column brace beam beam under	$ \begin{array}{r} 4.0000 \\ 0 \\ 3.1400 \\ 0 \\ 3.1400 \\ 0 \\ 0 \end{array} $	0.400 2.550	0.300 0.150 0.300	4.000 6.400 0.450		1.200			
	central column brace beam beam under collection tray	$\begin{array}{r} 4.0000 \\ 0 \\ 3.1400 \\ 0 \\ 3.1400 \\ 0 \\ 3.1400 \\ 0 \\ 4.0000 \end{array}$	0.400 2.550 2.550	0.300 0.150 0.300 0.300	4.000 6.400 0.450 0.450	0.2500	1.200 1.08 1.08			
	central column brace beam beam under collection tray cantilever beam collection tray +	$\begin{array}{r} 4.0000 \\ 0 \\ 3.1400 \\ 0 \\ 3.1400 \\ 0 \\ 3.1400 \\ 0 \\ 4.0000 \\ 0 \\ 1.0000 \\ 0 \end{array}$	0.400 2.550 2.550 0.550	0.300 0.150 0.300 0.300 0.300 3.1*3.1-	4.000 6.400 0.450 0.450 0.450		1.200 1.08 1.08 0.29 ²			
	central column brace beam beam under collection tray cantilever beam collection tray + drain bottom slab collection tray -	$\begin{array}{r} 4.0000\\ 0\\ 3.1400\\ 0\\ 3.1400\\ 0\\ 3.1400\\ 0\\ 4.0000\\ 0\\ 1.0000\\ 0\\ 1.0000\\ 0\\ \end{array}$	0.400 2.550 2.550 0.550 3.140	0.300 0.150 0.300 0.300 0.300 3.1*3.1- .55*0.55	4.000 6.400 0.450 0.450 0.450 0.200		1.200 1.08 1.08 0.29 [°] 1.46			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Tray 2 slab	1.0000 0	3.140	(1.7*1.7- 0.55*0.55)	0.200	0.2500 00	0.406	
	Tray 2 side wall	1.0000 0	3.14*1.55	0.150	0.200		0.146	
	Tray 3 slab	1.0000 0	3.140	(1.1*1.1- 0.55*0.55)	0.200	$\begin{array}{c} 0.2500\\00\end{array}$	0.142	
	Tray 3 side wall	$\begin{array}{c} 1.0000\\ 0\end{array}$	3.140*.95	0.150	0.200		0.089	
	Total						8.891	
				To	tal Quantity	y in cum	8.891	
2.006								
	Extra for providing specified cement c grade concrete ins in M-30 is @ 340	ontent use tead of M	ed is payable	/ recoverable	separately.	Providing	M-30	
	Extra f		ng richer mix	kes				
	Qnty same as item no.4&5	1.0000	4.151+8. 891	716			13.042	
	Total		0,1	< 10	_ (=		13.042	
			e-PLATFOR		tal Quantity	y in cum	13.042	
2.007	5.9.1							
	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Fo							
		footings, bases of columns, etc for mass concrete						
		columns,	etc for mass				oundations,	
	footings, bases of	columns,	etc for mass		0.200		3.520	
	footings, bases of Centering & amp	columns, o o; shutteri	etc for mass					
	footings, bases of Centering & am RCC footing RCC trapezoidal	columns, o o; shutteri 4.0000 0	etc for mass ng 4*1.1		0.200		3.520	
	footings, bases of Centering & amp RCC footing RCC trapezoidal portion RCC footing	columns, o c; shutteri 4.0000 0 4.0000 0	etc for mass ng 4*1.1 (4.8+1.8)/ 2		0.200 0.450		3.520 5.940	
	footings, bases of Centering & amp RCC footing RCC trapezoidal portion RCC footing center column RCC footing RCC footing	columns, o 5; shutteri 4.0000 0 4.0000 0 1.0000 0	$ \underbrace{\frac{\text{etc for mass}}{\text{ng}}}_{4*1.1} \underbrace{\frac{4*1.1}{(4.8+1.8)/2}}_{2} \underline{4*1.1} $		0.200 0.450 0.200		3.520 5.940 0.880	
	footings, bases of Centering & amp RCC footing RCC trapezoidal portion RCC footing center column RCC footing center column	$\begin{array}{c} \text{columns, } \\ \text{o; shutteri} \\ 4.0000 \\ 0 \\ 4.0000 \\ 0 \\ 1.0000 \\ 0 \\ 1.0000 \\ 0 \\ 2.0000 \end{array}$	etc for mass ng 4*1.1 (4.8+1.8)/ 2 4*1.1 4*0.65		0.200 0.450 0.200 0.650		3.520 5.940 0.880 1.690	
	footings, bases of Centering & amp RCC footing RCC trapezoidal portion RCC footing center column RCC footing center column Plinth beam	$\begin{array}{c} \text{columns, } \\ \text{o; shutteri} \\ 4.0000 \\ 0 \\ 4.0000 \\ 0 \\ 1.0000 \\ 0 \\ 1.0000 \\ 0 \\ 2.0000 \end{array}$	etc for mass ng 4*1.1 (4.8+1.8)/ 2 4*1.1 4*0.65		0.200 0.450 0.200 0.650		3.520 5.940 0.880 1.690 7.206	
2.008	footings, bases of Centering & amp RCC footing RCC trapezoidal portion RCC footing center column RCC footing center column Plinth beam	$\begin{array}{c} \text{columns, } \\ \text{o; shutteri} \\ 4.0000 \\ 0 \\ 4.0000 \\ 0 \\ 1.0000 \\ 0 \\ 1.0000 \\ 0 \\ 2.0000 \end{array}$	etc for mass ng 4*1.1 (4.8+1.8)/ 2 4*1.1 4*0.65		0.200 0.450 0.200 0.650 0.450		3.520 5.940 0.880 1.690 7.206 19.236	
2.008	footings, bases of Centering & amp RCC footing RCC trapezoidal portion RCC footing center column RCC footing center column Plinth beam Total	columns, o c); shutteri 4.0000 0 4.0000 0 1.0000 0 2.0000 0 columns, o 0 0 0 0 0 0 0 0 0 0 0 0 0	etc for mass ng 4*1.1 (4.8+1.8)/ 2 4*1.1 4*0.65 3.14*2.55	To ing, etc. and	0.200 0.450 0.200 0.650 0.450 otal Quantit	y in sqm orm for:W	3.520 5.940 0.880 1.690 7.206 19.236 19.236 /alls (any	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Collection Tray - side wall	$2.0000 \\ 0$	3.14*2.95	0.400			7.410			
	Tray -1 wall	$2.0000 \\ 0$	3.14*2.15	0.200			2.700			
	Tray -2 side wall	$2.0000 \\ 0$	3.14*1.55	0.200			1.947			
	Tray -3 side wall	$2.0000 \\ 0$	3.14*0.95	0.200			1.193			
	Central column (outer)	$\begin{array}{c} 1.0000\\ 0\end{array}$	3.14*0.55	6.400			11.053			
	Total					_	24.303			
				То	tal Quantit	y in sqm	24.303			
2.009	5.9.3									
	Centering and shut floors, roofs, landi				removal of f	orm for:S	uspended			
	centering and shu	Ittering	683	220						
	collection tray- bottom slab	1.0000 0	3.140	3.1*3.1		$\begin{array}{c} 0.2000\\00\end{array}$	6.035			
	tray-1 slab	1.0000 0	3.140	2.3*2.3		$\begin{array}{c} 0.2000\\00\end{array}$	3.322			
	tray-2 slab	1.0000 0	3.140	1.7*1.7	ANAGEMENT	0.2000 00	1.815			
	tray-3 slab	1.0000 0	3.140	1.1*1.1		0.2000 00	0.760			
	Total						11.932			
				То	tal Quantit	y 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 s	shuttering				r				
	beam under collection tray	1.0000 0	3.14*2.55	1.200			9.608			
	cantilever beam	4.0000 0	0.550	1.200			2.640			
	Brace beam	1.0000 0	3.140*2.5 5	1.200			9.608			
	Total						21.856			
				То	tal Quantit	y in sqm	21.856			
2.011	5.9.6									
	Centering and shut Pillars, Piers, Abut				emoval of f	orm for:C	olumns,			
	,,,,									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	column	4.0000 0	1.200	4.000			19.200				
	Total						19.200				
				Та	otal Quantit	y 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	1.0000 0	13.042	crete		120.00 0000	1565.040				
	Total						1565.040				
				Total C	Quantity in l	kilogram	1565.040				
2.013	13.1.1		de la constanción de la constancición de la constanción de la constanción de la cons	S.	•						
	12 mm cement pla	ster of mi	x:1:4 (1 cen	nent : 4 fine s	and)						
	Plastering 12n		-275-270-2	ALC AND A	,						
	Bottom of Tray, including collection tray	2.0000	3.14*3*3	1/4	ΞE		14.130				
	Tray 1 - side	1.0000	3.14*2.3	0.400	ANAGEMENT		2.889				
	Tray 2 - side	1.0000 0	3.14*1.7	0.300			1.601				
	Tray 3 - side	1.0000 0	3.14*1.1	0.300			1.036				
	collection channel - side wall	2.0000 0	3.14*3.3	0.540			11.191				
	column pipe	1.0000 0	3.14*0.55	5.700			9.844				
	beam under tray	1.0000 0	3.14*2.87	0.900			8.111				
	brace beam	1.0000 0	3.14*2.87	1.200			10.814				
	canteliver beam	4.0000 0	0.550	0.900			1.980				
	columns	4.0000 0	1.200	4.000			19.200				
	Total		80.796								
				Te	otal Quantit	. in com	80.796				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and layi specified by the m make, in colours s cement mortar 1:4 cement and match	anufactur uch as Wh (1 Cemer	er), of 1st qu nite, Ivory, G nt : 4 Coarse	ality conform rey, Fume R sand), inclue	ning to IS : 1 ed Brown, la	5622, of a id on 20 i	approved mm thick
	Providing an	d laying c	eramic floor	tile			
	For top of Trays including collection tray	1.0000 0	3.14*2.8	0.300			2.638
	For collection tray sides	1.0000	3.14*2.8	0.400			3.517
	For collection tray sides	1.0000	3.14*2.3	0.400			2.889
	Tray 1 - side	1.0000	3.14*2.3	0.350			2.528
	Tray 2 - side	1.0000	3.14*1.7	0.200			1.068
	Tray 3 - side	1.0000	3.14*1.1	0.200			0.691
	collection channel - inside wall	1.0000 0	3.14*2.8	0.540	ΞE		4.748
	Tray 1 top	1.0000	3.14*2.15	0.300	ANAGEMENT		2.025
	Tray 2 top	1.0000 0	3.14*1.55	0.300			1.460
	Tray 3 top	1.0000	3.14*.95	0.300			0.895
	Total						22.459
				Т	otal Quantity	y in sqm	22.459
2.015	13.43.1						
	Applying one coat manufacture on wa	of water all surface	thinnable cer Water thinn:	ment primer	of approved l primer	brand and	
	Applying wat	ter thinnat	ole primer				
	Bottom of Trays including collection tray	3.1400 0	3.4*3.4	1/4			9.075
	Tray 1 - bottom vertical side	3.1400 0	2.350	0.350			2.583
	Tray 2 - side	3.1400 0	1.750	0.200			1.099
	Tray 3 - side	3.1400 0	1.150	0.200			0.722

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	collection channel - side wall	3.1400 0	3.400	0.450			4.804		
	central column	3.1400 0	0.450	5.700			8.054		
	beam under tray	3.1400 0	2.870	0.900			8.111		
	canteliver beam	4.0000	0.550	0.900			1.980		
	columns	4.0000	1.200	4.900			23.520		
	Total		59.948						
				Tot	tal Quantit	y in sqm	59.948		
2.016	13.60.1								
	Wall painting with an even shade:Tw				brand and 1	nanufactu	re to give		
	Painting with ac	rylic emul	sion paint	241-31					
	central column	3.1400	0.45 <mark>0</mark>	5.700	_		8.054		
	beam under tray	3.1400 0	2.870	0.900	_E		8.111		
	canteliver beam	4.0000	0.550	0.900	NAGEMENT		1.980		
	columns	4.0000	1.200	4.900			23.520		
	Total						41.665		
				Tot	tal Quantit	y in sqm	41.665		
3	Clariflocculator								
3.001	2.7.1								
	Earth work in exca over areas (exceed including disposal earth to be levelled	ling 30 cm of excava	in depth, 1.5 ted earth, lea	m in width a d up to 50 m	as well as 10) sqm on j	plan)		
	Earthwork excava	ation							
		$\begin{array}{c} 0.7850\\0\end{array}$	14.000	14.000	1.200		184.632		
	Total								
	Total Quantity in cum 184								
3.002	OD194254/2023-2	2024							
	DOWEL BARS_ long including dri gap with cement g	lling holes	of 20 mm di	a to a depth o	bars of size of 100 cm in	16 mm d rock and	ia , 200 cm filling the		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Dowel bars								
		50.000 00					50.000		
	Total						50.000		
				,	Total Quant	ity in no	50.000		
3.003	4.1.3								
	Providing and layi of centering and sh (zone-III) : 4 grade	nuttering -	- All work up	to plinth lev	vel:1:2:4 (cer	de excludi nent : 2 co	ing the cost parse sand		
	Providing PCC 1								
	for floor slab	0.2500 0	3.140	12.7*12.7	0.250		31.653		
	Total						31.653		
				Тс	otal Quantit	y in cum	31.653		
3.004	5.33.1		a de						
	25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engine 330 kg/ cum. Exce separately.All wor	esign mix, of center ommendec workabili eer - in-ch ess or less	including puing, shuttering proportions ty without in arge. Note:- cement used	Imping of co g, finishing a as per IS: 91 npairing stre Cement con	ncrete to site and reinforce 03 to accele ngth and dur tent consider	e of laying ement, inc rate, retar ability as ed in this	g but luding d setting of per item is @		
	Providing RCC de	sign mix	M-25						
	Floor slab	0.2500 0	3.140	12.4*12.4	0.300		36.210		
	Total						36.210		
				То	otal Quantit	y 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	1.0000	x M-25 3.14*1.10						
	Side of pit	0	0	0.300	0.700		0.725		
	Side wall of clarifier	1.0000	3.140*11. 8	0.300	4.000		44.462		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	haunch	$\begin{array}{c} 0.5000\\ 0\end{array}$	3.140*11. 5	0.500	0.700		6.319
	column for supporting flocculator side wall	5.0000 0	0.300	0.300	0.700		0.315
	Beam for supporting flocculator side wall	1.0000 0	3.14*5.35	0.300	0.400		2.016
	flocculator side wall	1.0000 0	3.14*5.35	0.150	3.200		8.064
	Collecting channel	1.0000 0	3.14*11.2	0.300	0.100		1.055
	Collecting channel side wall	1.0000 0	3.14*10.8	0.100	0.500		1.696
	Central shaft	1.0000 0	3.14*.5	0.150	4.500		1.060
	cover slab of Central shaft	$\begin{array}{c} 0.2500\\ 0\end{array}$	3.140	.65*.65	0.150		0.050
	Walk way	1.0000	3.140*12 <mark>.</mark>	1.000	0.150		5.888
	wall way	0	5	1.000			5.000
	Total	0		1.000			71.650
		0		M FOR THE M		y in cum	
3.006		0		M FOR THE M	ANAGEMENT	y in cum	71.650
3.006	Total	g richer m ontent use tead of M-	ixes at all flo	To or levels. No recoverable	tal Quantity ote:- Excess/l separately.P	ess ceme roviding	71.650 71.650 nt over the M-30
3.006	Total 5.34.1 Extra for providing specified cement c grade concrete inst	g richer m ontent use tead of M- teg/cum).	ixes at all flo ed is payable. 25 grade BM	To or levels. No / recoverable IC/RMC. (N	tal Quantity ote:- Excess/l separately.P	ess ceme roviding	71.650 71.650 nt over the M-30
3.006	Total 5.34.1 Extra for providing specified cement c grade concrete inst in M-30 is @ 340	g richer m ontent use tead of M- teg/cum).	ixes at all flo ed is payable. 25 grade BM	To or levels. No / recoverable IC/RMC. (N	tal Quantity ote:- Excess/l separately.P	ess ceme roviding	71.650 71.650 nt over the M-30
3.006	Total 5.34.1 Extra for providing specified cement c grade concrete inst in M-30 is @ 340 Extra Providi qnty same as item	g richer m ontent use tead of M- kg/cum). ng RCC d	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7	To or levels. No / recoverable IC/RMC. (N	tal Quantity ote:- Excess/l separately.P	ess ceme roviding	71.650 71.650 nt over the M-30 considered 107.860
3.006	Total 5.34.1 Extra for providing specified cement c grade concrete inst in M-30 is @ 340 Extra Providi qnty same as item no. 4&5	g richer m ontent use tead of M- kg/cum). ng RCC d	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7	To oor levels. No / recoverable 1C/RMC. (N -30	tal Quantity ote:- Excess/l separately.P	ess ceme roviding t content	71.650 71.650 nt over the M-30 considered 107.860
	Total 5.34.1 Extra for providing specified cement c grade concrete inst in M-30 is @ 340 Extra Providi qnty same as item no. 4&5	g richer m ontent use tead of M- kg/cum). ng RCC d	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7	To oor levels. No / recoverable 1C/RMC. (N -30	tal Quantity ote:- Excess/l separately.P ote:- Cemen	ess ceme roviding t content	71.650 71.650 nt over the M-30 considered 107.860 107.860
	Total 5.34.1 Extra for providing specified cement c grade concrete inst in M-30 is @ 340 Extra Providi qnty same as item no. 4&5 Total	g richer m ontent use tead of M- tead of M- <u>hg RCC d</u> 1.0000 0	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7 1.65	To oor levels. No / recoverable 1C/RMC. (N -30 To ng, etc. and 1	tal Quantity ote:- Excess/l separately.P ote:- Cemen	ess ceme roviding t content	71.650 71.650 nt over the M-30 considered 107.860 107.860 107.860
	Total 5.34.1 Extra for providing specified cement c grade concrete inst in M-30 is @ 340 Extra Providi qnty same as item no. 4&5 Total 5.9.1 Centering and shut	g richer m ontent use tead of M- kg/cum). ng RCC d 1.0000 0	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7 1.65	To oor levels. No / recoverable 1C/RMC. (N -30 To ng, etc. and 1	tal Quantity ote:- Excess/l separately.P ote:- Cemen	ess ceme roviding t content	71.650 71.650 nt over the M-30 considered 107.860 107.860 107.860
	Total 5.34.1 Extra for providing specified cement c grade concrete instin M-30 is @ 340 Extra Providi qnty same as item no. 4&5 Total 5.9.1 Centering and shut footings, bases of contractions	g richer m ontent use tead of M- kg/cum). ng RCC d 1.0000 0	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7 1.65	To oor levels. No / recoverable 1C/RMC. (N -30 To ng, etc. and 1	tal Quantity ote:- Excess/l separately.P ote:- Cemen	ess ceme roviding t content	71.650 71.650 nt over the M-30 considered 107.860 107.860 107.860
	Total 5.34.1 Extra for providing specified cement c grade concrete instin M-30 is @ 340 Extra Providi qnty same as item no. 4&5 Total 5.9.1 Centering and shut footings, bases of o Centering and shut	g richer m ontent use tead of M- kg/cum). ng RCC d 1.0000 0 ttering inc columns, o ttering 1.0000	ixes at all flo ed is payable, 25 grade BM esign mix M 36.210+7 1.65	To oor levels. No / recoverable 1C/RMC. (N -30 To ng, etc. and n concrete	tal Quantity ote:- Excess/l separately.P ote:- Cemen	ess ceme roviding t content	71.650 71.650 nt over the M-30 considered 107.860 107.860 107.860

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
				Тс	otal Quantity i	n 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	1.0000 0	3.14*1.1	0.700			2.418				
	Side wall of Clarifier- inside	1.0000 0	3.14*11.5	4.000			144.440				
	Side wall of Clarifier- out side	1.0000 0	3.14*12.1	4.000			151.976				
	column for supporting flocculator side wall	5.0000 0	4*0.3	0.700			4.200				
	Beam for supporting flocculator side wall	1.0000	3.14*5.35	1.100			18.479				
	flocculator side wall - in side	1.0000 0	3.14*5.2	3.000	_		48.984				
	flocculator side wall - out side	3.1400 0	5.500	3.000	ANAGEMENT		51.810				
	collecting channel	1.0000 0	3.14*11.2	0.300			10.550				
	collecting channel side wall- inner	3.1400 0	10.700	0.400			13.439				
	collecting channel side wall- outer	3.1400 0	10.900	0.500			17.113				
	central shaft	3.1400 0	0.500	4.500			7.065				
	cover slab of central shaft	3.1400 0	.65*.65	1/4			0.332				
	Walk way	3.1400 0	12.500	1.000			39.250				
	Walk way - side	3.1400 0	13.500	0.150			6.359				
	cover slab of central shaft-side	3.1400 0	0.650		0.150		0.306				
	Total						516.721				
				Т	otal Quantity i	n sqm	516.721				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Steel reinforcemen in position and bin bars of grade Fe-50	ding all c	omplete upto	uding straigh plinth level'	tening, cuttin Thermo - Me	ng, bendin echanicall	g, placing y Treated		
	Steel reinfo	orcement				· · · · · ·			
	Steel reinforcement	1.0000 0	36.210+7 1.65			120.00 0000	12943.20 0		
	Total						12943.20 0		
	Total Quantity in kilogram								
3.010	13.1.1								
	12 mm cement pla	ster of mi	x:1:4 (1 cen	nent : 4 fine s	and)				
	Cement plast	ering 1:4,	12mm thick						
	Floor slab inside	1.0000 0	3.14*11.5 *11.5	WA.		0.2500 00	103.816		
	Side of pit	1.0000 0	3.14*1.1	0.700			2.418		
	Side wall of Clarifier- inside	1.0000	3.14*11. <mark>5</mark>	4.000			144.440		
	Side wall of Clarifier-out side	1.0000 0	3.14*12.1	4.000			151.976		
	column for supporting flocculator side wall	5.0000 0	4*.3	0.700	ANAGEMENT		4.200		
	Beam for supporting flocculator side wall	1.0000 0	3.14*5.35	1.100			18.479		
	flocculator side wall - in side	1.0000 0	3.14*5.2	3.000			48.984		
	flocculator side wall - out side	1.0000 0	3.14*5.5	3.000			51.810		
	collecting channel top& bottom	2.0000 0	3.14*11.2	0.300			21.101		
	collecting channel side wall	6.2800 0	10.800	0.450			30.521		
	central shaft	1.0000 0	3.14*0.65	4.500			9.185		
	cover slab of central shaft	3.1400 0	0.650*.65	1/4			0.332		
	Walkway	6.2800 0	12.500	1.000			78.500		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Walkway- side	3.1400 0	13.500	0.150			6.359
	cover slab of central shaft-side	1.0000 0	3.14*0.65	0.150			0.306
	Total		672.427				
		y in sqm	672.427				
3.011	22.23.1						
	water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of co DIN 1048 and resi slurry shall be cap shall be carried ou engineerin- charge. The produ leakage.For vertica	ge deck etc slurry : 2 slurry : 1 re (interna- uirements ncrete by stant to 10 able of sel t all comp ct perform	c., prepared l parts water) part water) l) side with t as specified more than 90 5 bar hydrost ff-healing of lete as per sp	by mixing in for vertical s for horizonta he help of sy in ACI-212-3 0% compared atic pressure cracks up to becification a arry guarante	the ratio of 3 surfaces and l surfaces and nthetic fiber BR-2010 i.e I l with contro on negative a width of 0 and the direct e for 10 year	5 : 2 (5 pa 3 : 1 (3 pa d applyin brush. Th by reducir l concrete side. The .50mm. T tion of the	rts arts g the ne material g as per crystalline he work
	Applying integ			0.70 kg per s	qm		
	Side wall of Clarifier- inside	1.0000 0	3.14*11.5	4.000	ANAGEMENT		144.440
	flocculator side wall - in side	$\begin{array}{c} 1.0000\\ 0\end{array}$	3.14*5.2	3.200			52.250
	flocculator side wall - out side	3.1400 0	5.500	3.200			55.264
	collecting channel side wall- inner	6.2800 0	10.800	0.450			30.521
	central shaft	6.2800 0	0.650	4.500			18.369
	Total			I			300.844
				To	otal Quantit	y in sqm	300.844
	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.											
	Ieakage.For horizontal surface one coat @1.10 kg per sqm. Applying integral crystalline slurry											
	base slab	1.0000 0	3.14*11.5 *11.5	1/4			103.816					
	collecting channel	1.0000 0	3.14*10.8	0.300			10.174					
	Total						113.990					
				To	otal Quantity	y in sqm	113.990					
3.013	13.43.1											
	Applying one coat manufacture on wa Applying wate Quantity same as plastering	all surface	Water thinn:	able cement		brand and	672.427					
	Total	0					672.427					
				Тс	otal Quantity	v in sam	672.427					
3 014	13.83.2					, , q	0.20.21					
5.011	Wall painting with (Volatile including and colour.Two co	, applying										
	Wall painting w	vith acryli	c emulsion p	aint								
	Side wall of Clarifier-out side	1.0000 0	3.14*12.1	4.000			151.976					
	$\begin{array}{c c} central shaft - & 3.1400 \\ cover slab & 0 & .65*.65 & 1/4 \end{array}$											
	Walk way 6.2800 0 14.000 1.000											
	Walk way	0	11.000	11000			87.920					
	Walk way Total	0	11.000	1.000			240.228					
		0	11.000		otal Quantit	y in sqm						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity					
	balcony railing, sta	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 ra	ails										
	walkway	800.00 000					800.000					
	Total						800.000					
					Total Quant	tity in kg	800.000					
3.016	100.1.1											
	sockets, and dressi getting out the exc exceeding 20cm ir watering, etc., and	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 tren		oipe laying		1							
	for 350mm DI pipe	$\begin{array}{c} 1.0000\\ 0\end{array}$	40.000	1.100	1.300		57.200					
	Total						57.200					
				Т	otal Quantit	y in cum	57.200					
3.017	100.14.6	_	e-PLATFOR	M FOR THE N								
	Conveying and lay to IS: 8329 exclud K-9 Pipes.											
	laying of 350mm	DI K9			I							
	350mm DI K9	$\begin{array}{c} 1.0000\\ 0\end{array}$	40.000				40.000					
	Total						40.000					
				Tot	al Quantity	in metre	40.000					
3.018												
	Supply of DI K9 P		orming to IS	8329/2000, 3	350mm Dia.							
	Supply 350mm DI											
	350mm DI K9	1.0000 0	40.000				40.000					
	Total						40.000					
				Tot	al Quantity	in metre	40.000					
3.019	100.98.464											
	Supply of CI Doub Valve with Cap Pl			ve Conformi	ing to IS 148	46 - 2000	, Sluice					
	Supply of CI D/F	sluice val	ve 350mm d	ia								

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	for clariflocculator scour	1.0000 0					1.000
	for raw water channel scour	1.0000 0					1.000
	Total						2.000
				I	Total Quant	tity in no	2.000
3.020	100.31.1.8						
	Conveying and fix insertions etc., cor will be paid separa	nplete, bu	t excluding t	he cost of th	y providing b e valve (tail j	olts, nuts, pieces, if 1	rubber required,
	fixing CI sluice va	lve		1	I		
	fixing CI sluice valve	$2.0000 \\ 0$					2.000
	Total			wn.			2.000
			1 K	a in	Total Quant	tity in no	2.000
3.021	18.68.1		(All and a second se				
	Providing and layi IS : 9523 :Upt 600		ecials of clas	s K - 12 suit	able for push	I - on joint	ing as per
	Providing and la	aying DI s	pecials				
	350mm wall casing pipe	2.0000	e-PLATFOR OF PUBLIC	M FOR THE N WORKS	ANAGEMENT	1.0800 00	2.160
	350mm - 90 degree bend	$4.0000 \\ 0$				0.9000 00	3.600
	350mm - 45 degree bend	$2.0000 \\ 0$				0.6500 00	1.300
	350mm - 22.5 degree bend	$2.0000 \\ 0$				$\begin{array}{c} 0.5400\\00\end{array}$	1.080
	350mm - 11.25 degree bend	2.0000 0				0.4700 00	0.940
	350 x 350 mm tee	$2.0000 \\ 0$				1.0200 00	2.040
	Total						11.120
				Tota	l Quantity ii	n quintal	11.120
3.022	18.70.6						
	Providing push - o Pipes including tes pipes						
	Providing push on	joints			1		
	350mm DI K9	8.0000 0					8.000
	Total						8.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
				То	tal Quantity	v in joint	8.000
3.023	OD194255/2023-2	2024					
	Labour for cutting 350 mm diameter		with steel sa	W.			
	labour for cutting						
		4.0000					4.000
	Total						4.000
				Total Q	uantity in E	Cach Cut	4.000
3.024	18.30.8						
	Providing flanged testing of joints:35			ed C.I./ D.I p	ipes and spec	cials, inclu	ıding
	Providing flanged	[
	350mm DI K9	4.0000	d.				4.000
	Total			2414			4.000
			Shee	and the second sec	Total Quant	ity in no	4.000
3.025	100.35.6						
	Testing 350mm D 350 mm dia Observed Data der		e-PLATFOR	M FOR THE M	ANAGEMENT	test press	ure.
	Testing of 350 mm	n DI pipe					
		1.0000	40.000				40.000
	Total						40.000
				Tota	al Quantity	in metre	40.000
4	Flash Mixer,Raw	water char	nnel and Clea	ar water char	nnel		
4.001	2.6.1						
	Earth work in exca over areas (exceed including disposal earth to be levelled	ling 30 cm of excava	n in depth, 1 ated earth, lea	5 m in width ad up to 50 n	as well as 10 n and lift up t) sqm on j	plan)
	Earth work in exca	avation			T	r	
	Flash mixer	3.1400 0	4.000	4.000	1.500	$\begin{array}{c} 0.2500\\00\end{array}$	18.840
	Total						18.840
				To	otal Quantity	y in cum	18.840
4.002	2.8.1						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Earth work in exca in foundation trend including dressing out the excavated s of 50 m.All kinds	ches or dra of sides a soil and di	ains (not exc and ramming	eeding 1.5 m of bottoms,	in width or lift up to 1.5	10 sqm or m, includ	n plan), ling getting				
	Earth work in excavation										
	for column-Raw Water Channel	Water Channel 0 1.500 1.500 1.500									
	Clear water Channel	1.0000 0	20.000	1.000	1.500		30.000				
	Total						53.625				
				То	otal Quantit	y in cum	53.625				
	Providing and layi of centering and sh (zone-III) : 4 grade Providing and la	uttering - ed stone a	All work up ggregate 20	to plinth lev	vel:1:2:4 (cer						
	Column footing- Raw water channel	7.0000	1.500	1.500	0.150		2.363				
	Flash mixer-PCC	1.0000	3.14*2.3* 2.3		0.150	$\begin{array}{c} 0.2500\\00\end{array}$	0.623				
	Flash mixer-PCC inside	1.0000 0	3.14*1.3* 1.300	WORKS	0.500	0.2500 00	0.663				
	CW channel PCC	$\begin{array}{c} 1.0000\\ 0\end{array}$	20.000	1.000	0.150		3.000				
	Total						6.649				
				Тс	otal Quantit	y 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			5							
	Column footing- Raw water channel	7.0000	1.200	1.200	0.200		2.016				
	Column footing trapezoidal portion	7.0000 0	0.312				2.184				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Column up to plinth beam	7.0000 0	0.300	0.300	0.750		0.473
	Plinth beam-Raw water channel	1.0000 0	25.000	0.300	0.450		3.375
	Clear water channel- floor slab	1.0000 0	20.000	0.700	0.200		2.800
	Clear water channel- side wall	2.0000	20.000	0.150	0.300		1.800
	Clear water channel-cover slab	40.000 00	0.500	0.700	0.200		2.800
	Total						15.448
				Τα	otal Quantity	y in cum	15.448
4.005	5.33.2		e la constance de la constance				
	excluding the cost admixtures in reco concrete, improve direction of Engine 330 kg/ cum. Exce separately.All wor	mmended workabili eer - in-ch ess or less	proportions ty without in arge. Note:- cement used	as per IS: 91 pairing stren Cement cont as per design	03 to accelering the and duration of the and duration of the and duration of the accelering the	rate, retar ability as ed in this	d setting of per item is @
	Providing a	nd laying	design mix N	M-25			
	Flash mixer- Bottom slab	1.0000 0	3.140	1.0*1.0	0.300		0.942
	Flash mixer-side wall	1.0000 0	3.14*1.5	0.200	2.500		2.355
	Flash mixer-walk way	1.0000 0	3.140*2.0	0.800	0.150		0.754
	Column-Raw water channel	7.0000 0	0.300	0.300	5.200		3.276
	Tie beam-Raw water channel	1.0000 0	25.000	0.300	0.450		3.375
	Beam-Raw water channel	1.0000 0	25.000	0.300	0.450		3.375
	Bottom slab-Raw water channel	1.0000 0	25.000	0.550	0.200		2.750
	Side wall-Raw water channel	2.0000 0	25.000	0.150	0.350		2.625
	Cover slab-Raw water channel	50.000 00	0.550	0.500	0.150		2.063
	Total						21.515

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
				Та	otal Quantity	y in cum	21.515			
4.006	5.34.1									
	Extra for providing specified cement c grade concrete ins in M-30 is @ 340	Providing	M-30							
	Providing and lay									
	Qnty same as item No. 4 & 5	1.0000 0	15.448+2 1.515				36.963			
	Total						36.963			
				To	otal Quantity	y in cum	36.963			
4.007	5.9.1									
	Centering and shu footings, bases of				removal of f	orm for:F	oundations,			
	Centering & am	p; shutteri	ng							
	Raw water channel-Column footing	7.0000 0	4*1.2	0.200	_		6.720			
	Raw water channel- trapezoidal portion	7.0000 0	4*0.825	0.450			10.395			
	Raw water channel-column up to plinth level	7.0000 0	1.200	0.750			6.300			
	Raw water channel-Plinth beam	1.0000 0	25.000	1.200			30.000			
	Clear water channel -floor slab side	1.0000 0	2*20.000		0.200		8.000			
	Total						61.415			
				Тс	otal Quantity	y in sqm	61.415			
4.008	5.9.2									
	Centering and shuttering including strutting, etc. and removal of form for: Walls (an thickness) including attached pilasters, butteresses, plinth and string courses etc.									
	Centering and	shuttering	5	T	T					
	Flash mixer- Sidewall	2.0000	3.140	1.500	2.500		23.550			
	Raw water channel-outside wall	2.0000 0	25.000		0.550		27.500			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Raw water channel-inside wall	2.0000	25.000		0.350		17.500
	Clear water channel-inside wall	2.0000	20.000		0.300		12.000
	Clear water channel-outside wall	2.0000	20.000		0.500		20.000
	Clear water channel- coverslab side	40.000 00	2.400		0.200		19.200
	Total						119.750
				Тс	otal Quantit	y in sqm	119.750
4.009	5.9.3						
	Centering and shu floors, roofs, landi	ngs, balco	luding struttion	ing, etc. and ess platform	removal of f	orm for:S	uspended
	Centering and sh		1940	050628			
	Flash mixer-walk way bottom	1.0000	3.140	2.500	0.800		6.280
	Flash mixer-walk way side	1.0000	3.140	3.300	0.150		1.554
	Raw water channel-Bottom slab	1.0000 0	25.000	0.550			13.750
	Raw water channel-cover slab	50.000 00	2.100	0.150			15.750
	Total						37.334
				Тс	otal Quantit	y in sqm	37.334
4.010	5.9.5						
	Centering and shu beams, plinth bear	ttering inc ns, girders	luding strutt	ing, etc. and and cantilev	removal of f ers	orm for:L	intels,
	Centering & amp	; shuttering	g				
	Tie beam	1.0000	25.000	1.200			30.000
	Total						30.000
				Тс	otal Quantit	y in sqm	30.000
4.011	5.9.6						
	Centering and shu Pillars, Piers, Abu	ttering inc tments, Po	luding struttions struttions and Strut	ing, etc. and	removal of f	orm for:C	columns,
	Centering & amp;	shuttering	5				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	column	7.0000 0	1.200	5.200			43.680
	Total						43.680
				Τα	otal Quantit	y in sqm	43.680
4.012	5.22.6						
	Steel reinforcemer in position and bin bars of grade Fe-5	ding all co	omplete upto				
	Steel re	inforceme	nt for RCC y	vorks		г – т	
	Reinforcement	1.0000 0	36.963			$\begin{array}{r}120.00\\0000\end{array}$	4435.560
	Total						4435.560
				Total Q	Quantity in k	kilogram	4435.560
4.013	13.1.1			1. M.			
	12 mm cement pla	ster of mi	x:1:4 (1 cem	nent : 4 fine s	and)		
	12mm Cement pla	astering 1:	4 mix	2013			
	Flash mixer-Side wall - inside	1.0000	3.140	1.300	2.000		8.164
	Flash mixer-Side wall - out side	1.0000 0	3.140	1.700	2.500		13.345
	Flash mixer- Walkway - top& bottom	2.0000 0	3.140	2.200	0.800		11.053
	Flash mixer- Walkway -side	1.0000 0	3.140	3.300	0.150		1.554
	Raw water channel-column	7.0000 0	1.200		5.200		43.680
	Raw water channel-beam	1.0000 0	25.000		1.200		30.000
	Raw water channel-inside slab& side wall	1.0000 0	25.000	0.950			23.750
	Raw water channel-outside slab& side wall	1.0000 0	25.000	1.650			41.250
	Raw water channel-cover slab top	50.000 00	0.500		0.550		13.750
	Clear water channel-side wall	4.0000 0	20.000		0.450		36.000
	Clear water channel-bottom slab	1.0000 0	20.000	0.700			14.000

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Clear water channel-cover slab top	1.0000 0	20.000	0.700			14.000
	Clear water channel-cover slab side	1.0000 0	2*20.55		0.200		8.220
	Total						258.766
				То	otal Quantit	y in sqm	258.766
4.014	13.43.1						
	Applying one coat manufacture on w	of water tail surface	thinnable cen Water thinn:	nent primer of able cement	of approved primer	brand and	
	Applying wate	r thinnabl	e cement pri	mer			
	Flash mixer-Side wall - out side	1.0000	3.140	1.700	2.500		13.345
	Flash mixer- Walk way - top and bottom	2.0000 0	3.140	2.500	0.800		12.560
	Flash mixer- Walk way -side	1.0000	3.140	3.300	0.150		1.554
	Raw water channel -column	7.0000 0	1.200	えし	5.200		43.680
	Raw water channel -beam	2.0000	25.000	M FOR THE N WORKS	1.200		60.000
	Raw water channel -outside	1.0000	25.000		1.650		41.250
	Raw water channel -cover slab top	50.000 00	0.500		0.550		13.750
	Total						186.139
				Тс	otal Quantit	y in sqm	186.139
4.015	13.60.1						
	Wall painting with an even shade:Two				d brand and i	manufactu	re to give
	Wall painting v	vith acryli	c emulsion p	aint			
	Qnty same as Item no. 14	1.0000 0	186.139				186.139
	Total						186.139
				Te	otal Quantit	y in sqm	186.139
4.016	10.26.3						
	Providing and fixi balcony railing, sta approves steel prir	aircase rai	ling and sim				
	Providing and fix		•				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Flash mixer- Walkway	1.0000	180.000				180.000
	Raw water channel- Providing and fixing handrails	1.0000 0	300.000				300.000
	Total						480.000
				,	Total Quant	ity in kg	480.000
4.017	22.23.1					- · · · · · ·	
	/ subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of co DIN 1048 and resi slurry shall be cap shall be carried ou engineerin- charge. The produ leakage.For vertic	e slurry : 2 e slurry : 1 re (internal uirements : ncrete by : istant to 16 able of sel t all comp ct perform al surface	parts water) part water) f l) side with th as specified i more than 90 5 bar hydrosta f-healing of c lete as per sp ance shall ca two coats @(for vertical or horizonta ne help of sy n ACI-212- % compared atic pressure cracks up to ecification a	surfaces and al surfaces and muthetic fiber 3R-2010 i.e to d with control on negative a width of 0. and the direct ee for 10 year	3 : 1 (3 pa d applying brush. Th by reducin l concrete side. The .50mm. The ion of the	arts g the e material g as per crystalline he work
	Applying integra	2.0000					
	Side wall inside	2.0000	25.000		0.300		15.000
	Side wall inside	$2.0000 \\ 0$	20.000		0.300		12.000
	Flash mixer inside wall	1.0000	1.300		2.000		2.600
	Total						29.600
				Т	otal Quantit	y in sqm	29.600
4 018	22.23.2						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and app waterproofing trea water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of co DIN 1048 and resi slurry shall be cap shall be carried ou engineerin- charge. The produ leakage.For horizo	atment to t slabs, podi ge deck et e slurry : 2 e slurry : 1 ve (interna uirements increte by istant to 10 able of se t all comp ct perform	he RCC stru- ums, reservi- c., prepared (parts water) part water) 1) side with t as specified more than 90 6 bar hydrost If-healing of blete as per speak	ctures like re or, sewage & by mixing in) for vertical : for horizonta he help of sy in ACI-212-3 0% compared tatic pressure cracks up to pecification a arry guarante	taining walls water treatment the ratio of f surfaces and l surfaces and l surfaces an inthetic fiber 3R-2010 i.e t l with contro on negative a width of 0 and the direct the for 10 year	s of the ba nent plant 5 : 2 (5 pa 3 : 1 (3 pa d applyin brush. The y reducin l concrete side. The .50mm. T tion of the	sement, , tunnels rts arts g the le material g as per crystalline he work
	Applying integra	al crystalli	ne slurry				
	Raw water channel-floor slab	1.0000 0	25.000		0.550		13.750
	Clear water channel	1.0000	20.000	0.550			11.000
	Flash mixer floor	1.0000	3.14*1.3* 1.3	210		$\begin{array}{c} 0.2500\\00\end{array}$	1.327
	Total		C-PLATFOR	M FOR THE M	ANAGEMENT		26.077
		_	OF PUBLIC	WORKS TO	otal Quantit	y in sqm	26.077
5	Filter house, Filter	media an	d Backwash	water tank			
5.001	2.6.1						
	Earth work in exca over areas (exceed including disposal earth to be levelled	ling 30 cm of excava	n in depth, 1. ated earth, lea	5 m in width ad up to 50 n	as well as 10 and lift up 1) sqm on j	plan)
	Earth work in exc	avation					
		1.0000	9.500	12.200	1.500		173.850
	Total						173.850
				To	otal Quantity	y in cum	173.850
5.002	OD194243/2023-2	2024					
	Earth work in exca						
	over areas (exceed including disposal disposed earth to b All classes of soil.	of excava	ated earth, lea	ad up to 50 n			
	including disposal	of excava be levelled	ated earth, lead and neatly of	ad up to 50 n dressed.			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						173.850
				Тс	otal Quantit	y in cum	173.850
5.003	OD195929/2023-2	2024					
	Earth work in exca over areas (exceed including disposal earth to be levelled	ing 30 cm of excava	n in depth, 1. ated earth, lea	5 m in width ad up to 50 n	as well as 10	0 sqm on to 1.5 m,	plan)
	Earth work in exc	cavation					
	filter bead	1.0000 0	9.500	12.200	1.000		115.900
	Total						115.900
				To	otal Quantit	y in cum	115.900
5.004	2.8.1						
	Earth work in exca in foundation trend including dressing out the excavated of 50 m.All kinds	ches or dr of sides a soil and d	ains (not exc and ramming	eeding 1.5 m of bottoms,	in width or lift up to 1.5	10 sqm or m, includ	n plan), ling getting
	Earth work in exc	avation		- 1 C			
	Column foundation	18.000 00	1.500	1.500	1.500		60.750
	Total		OF PUBLIC	WORKS			60.750
				To	otal Quantit	y in cum	60.750
5.005	OD194245/2023-2	2024					
	DOWEL BARS_ 3 long including dril gap with cement g	ling holes	s of 20 mm d	ia to a depth	l bars of size of 100 cm ir	16 mm d n rock and	ia , 200 cm filling the
	Dowel bars						
		40.000 00					40.000
	Total						40.000
				,	Total Quant	tity in no	40.000
5.006	4.1.3						
	Providing and layi of centering and sh (zone-III) : 4 grade	uttering -	- All work up	to plinth lev	vel:1:2:4 (cer		
	Providing PC	CC 1:2:4				I	
	levelling filter bed	1.0000	12.100	8.900	0.150		16.154
	filling gullet	3.0000 0	3.500	0.700	0.700		5.145

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	porch	1.0000	8.400	3.300	0.150		4.158
	Lobby	1.0000	7.330	3.800	0.150		4.178
	stair room	1.0000	3.800	3.580	0.150		2.041
	Chlorine room	1.0000	3.980	7.330	0.150		4.376
	Chemical room	1.0000	8.030	3.570	0.150		4.300
	Blower	1.0000	3.850	3.550	0.150		2.050
	wash & toilet	$2.0000 \\ 0$	3.200	1.690	0.150		1.622
	Provision for unforseen quantity	5.0000 0	Å				5.000
	Column- Footing	18.000 00	1.500	1.500	0.150		6.075
	Total						55.099
	Total		P	Tot	al Quantity	in cum	
5.007	5.33.1	ng in nosit	OF RURLIC M	A FOR THE MA			55.099
5.007		oncrete for esign mix, of centerin ommended workabilit eer - in-cha ess or less of	tion machine r reinforced c including pur ng, shuttering proportions a ty without im arge. Note:- O cement used a	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte	machine mi ete work, us crete to site nd reinforcer 3 to acceler gth and dura ent considere	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @
5.007	5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce	oncrete for esign mix, of centerin ommended workabilit eer - in-cha ess or less of k upto plir	tion machine r reinforced c including pur ng, shuttering proportions a ty without imp arge. Note:- O cement used a th level	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte	machine mi ete work, us crete to site nd reinforcer 3 to acceler gth and dura ent considere	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @
5.007	5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor	oncrete for esign mix, of centerin ommended workabilit eer - in-cha ess or less of k upto plir	tion machine r reinforced c including pur ng, shuttering proportions a ty without imp arge. Note:- O cement used a th level	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte	machine mi ete work, us crete to site nd reinforcer 3 to acceler gth and dura ent considere	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @
5.007	5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor Providing d Filter house	oncrete for esign mix, of centerin ommended workabilit eer - in-cha ess or less or k upto plir lesign mix	tion machine r reinforced c including pur ng, shuttering proportions a ty without imp arge. Note:- O cement used a th level M25	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design	machine mi ete work, us crete to site nd reinforcer 3 to acceler gth and dura ent considere mix is paya	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @ coverable
5.007	5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor Providing d Filter house plinth beam Filter house	oncrete for esign mix, of centerin ommended workabilit eer - in-cha ess or less of k upto plir lesign mix 2.0000 0 2.0000	tion machine r reinforced c including pur ng, shuttering proportions a ty without imp arge. Note:- O cement used a th level M25 16.330	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design 0.450	machine mi ete work, us crete to site nd reinforcer 3 to acceler gth and dura ent considere mix is paya	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @ coverable 8.818
5.007	5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor Providing d Filter house plinth beam Filter house plinth beam	oncrete for esign mix, of centerin mmended workabilit eer - in-cha ess or less of k upto plir lesign mix 2.0000 0 2.0000 0 1.0000	tion machine r reinforced c including pur ng, shuttering proportions a ty without im arge. Note:- C cement used a th level M25 16.330 12.280	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design 0.450 0.450	machine mi ete work, us crete to site nd reinforcer 3 to acceler gth and dura ent considere mix is paya 0.600 0.600	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @ coverable 8.818 6.631
5.007	5.33.1 Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor Providing d Filter house plinth beam Filter house plinth beam Filter house Plinth beam	oncrete for esign mix, of centerin ommended workabilit eer - in-cha ess or less of k upto plir lesign mix 2.0000 0 2.0000 0 1.0000 0	tion machine r reinforced c including pur ng, shuttering proportions a ty without im arge. Note:- O cement used a th level M25 16.330 12.280 8.400	batched and ement concre mping of con g, finishing an as per IS: 910 pairing stren Cement conte as per design 0.450 0.450 0.300	machine mi ete work, us crete to site nd reinforcen 3 to acceler gth and dura ent considere mix is paya 0.600 0.600 0.450	xed desig ing ceme of laying ment, inc rate, retar ability as ed in this	55.099 gn mix M- nt content g but luding d setting of per item is @ coverable 8.818 6.631 1.134

	Specification	No	Length	Width	Depth	Cf	Quantity
	Filter bed & pipe gallery floor	1.0000	11.800	8.600	0.300		30.444
	Filter bed -floor	1.0000	11.450	4.500	0.300		15.458
	clear water channel in pipe gallery bottom slab	1.0000 0	12.320	0.900	0.200		2.218
	clear water channel side wall	2.0000	12.320	0.150	1.000		3.696
	clear water channel cover slab	1.0000 0	12.320	0.900	0.100		1.109
	Manifauld side wall	6.0000 0	3.000	0.150	0.500		1.350
	Total			-D	·		82.598
			683	То	tal Quantity	y in cum	82.598
5.008	5.33.2		141 CS	2013			
	excluding the cost admixtures in reco	of centeri mmended	ng, shuttering proportions	g, finishing a as per IS: 91	nd reinforce 03 to acceler	rate, retar	luding d setting of
	admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce	of centeri ommended workabili eer - in-ch ess or less	ng, shuttering proportions a ty without im arge. Note:- (cement used	g, finishing a as per IS: 91 pairing stren Cement cont as per design	nd reinforce 03 to accelen ogth and dura ent consideren n mix is paya	ment, inc rate, retar ability as ed in this	luding d setting of per item is @
	admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor	of centeri ommended workabili eer - in-ch ess or less k above p	ng, shuttering proportions a ty without im arge. Note:- (cement used	g, finishing a as per IS: 91 pairing strer Cement cont as per design to floor V le	nd reinforce 03 to accelen ogth and dura ent consideren n mix is paya	ment, inc rate, retar ability as ed in this	luding d setting of per item is @
	admixtures in reco concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor	of centeri ommended workabili eer - in-ch ess or less k above p	ng, shuttering proportions ty without im arge. Note:- (cement used linth level up	g, finishing a as per IS: 91 pairing strer Cement cont as per design to floor V le	nd reinforce 03 to accelen ogth and dura ent consideren n mix is paya	ment, inc rate, retar ability as ed in this	luding d setting of per item is @
	admixtures in recc concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor P Column in filter	of centeri ommended workabili eer - in-ch ess or less k above p roviding d 12.000	ng, shuttering proportions a ty without im arge. Note:- (cement used linth level up esign mix M2	g, finishing a as per IS: 91 pairing stren Cement cont as per design to floor V le 25	nd reinforce 03 to accelen agth and dura ent consider n mix is paya vel	ment, inc rate, retar ability as ed in this	luding d setting of per item is @ coverable
	admixtures in recc concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor P Column in filter bed Column in filter	of centeri ommended workabili eer - in-ch ess or less k above por roviding d 12.000 00	ng, shuttering proportions a ty without im arge. Note:- (cement used linth level up esign mix M2 0.450	g, finishing a as per IS: 91 apairing stren Cement cont as per design to floor V le 25 0.600	nd reinforce 03 to accelen ogth and dura ent consider n mix is paya vel 3.800	ment, inc rate, retar ability as ed in this	luding d setting of per item is @ coverable 12.312
	admixtures in recc concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor P Column in filter bed Column in filter bed Column in filter	of centeri ommended workabili eer - in-ch ess or less k above por roviding d 12.000 00 4.0000 0 6.0000	ng, shuttering proportions a ty without im arge. Note:- 0 cement used linth level up esign mix M2 0.450 0.300	g, finishing a as per IS: 91 pairing stren Cement cont as per design to floor V le 25 0.600 0.300	nd reinforce 03 to accelen ngth and dura ent consideren n mix is paya vel 3.800 3.800	ment, inc rate, retar ability as ed in this	luding d setting of per item is @ coverable 12.312 1.368
	admixtures in recc concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor P Column in filter bed Column in filter bed Column in filter bed column in filter	of centeri workabili eer - in-ch ess or less k above p roviding d 12.000 00 4.0000 0 6.0000 0 14.000	ng, shuttering proportions a ty without im arge. Note:- 0 cement used linth level up esign mix M 0.450 0.300 0.300	g, finishing a as per IS: 91 pairing stren Cement contr as per design to floor V le 25 0.600 0.300 0.300	nd reinforce 03 to accelen 19th and dura ent consideren 1 mix is paya vel 3.800 3.800 2.170	ment, inc rate, retar ability as ed in this	luding d setting of per item is @ coverable 12.312 1.368 1.172
	admixtures in recc concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor P Column in filter bed Column in filter bed Column in filter bed column ground floor column ground	of centeri ommended workabili eer - in-ch ess or less k above p roviding d 12.000 00 4.0000 0 6.0000 0 14.000 00 4.0000	ng, shuttering proportions a ty without im arge. Note:- 0 cement used linth level up esign mix M 0.450 0.300 0.300 0.450	g, finishing a as per IS: 91 pairing stren Cement contr as per design to floor V le 25 0.600 0.300 0.300 0.600	nd reinforce 03 to accelen ogth and dura ent consideren mix is paya vel 3.800 3.800 2.170 4.000	ment, inc rate, retar ability as ed in this	luding d setting of per item is @ coverable 12.312 1.368 1.172 15.120
	admixtures in recc concrete, improve direction of Engin 330 kg/ cum. Exce separately.All wor P Column in filter bed Column in filter bed Column in filter bed column ground floor column ground floor column first	of centeri ommended workabili eer - in-ch ess or less k above por roviding d 12.000 00 4.0000 0 6.0000 0 14.000 00 4.0000 0 14.0000 0 14.0000 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 14.0000 0 0 0 14.0000 0 0 0 0 14.0000 0 0 0 0 14.0000 0 0 0 0 14.0000 0 0 0 14.0000 0 0 0 0 0 0 14.0000 0 0 0 0 0 0 14.0000 0 0 0 14.0000 0 0 0 0 0 0 14.0000 0 0 0 0 0 0 0 14.0000 0 0 0 0 0 0 0 0 0	ng, shuttering proportions a ty without im arge. Note:- 0 cement used linth level up esign mix M2 0.450 0.300 0.300 0.450	g, finishing a as per IS: 91 pairing stren Cement cont as per design to floor V le 25 0.600 0.300 0.300 0.600 0.300	nd reinforce 03 to accelen ngth and dura ent consideren n mix is paya vel 3.800 3.800 2.170 4.000 4.000	ment, inc rate, retar ability as ed in this	luding d setting of per item is @ coverable 12.312 1.368 1.172 15.120 1.440

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Gullet wall	1.0000	11.500	0.250	3.720		10.695
	Side wall of bed including pipe gallery	2.0000	8.300	0.250	3.820		15.853
	Side wall of bed including pipe gallery	2.0000	4.450	0.250	3.000		6.675
	roof beam -filter bed	4.0000	8.300	0.300	0.450		4.482
	roof beam-filter bed	3.0000	11.500	0.300	0.450		4.658
	roof slab-filter bed	1.0000	8.600	11.800	0.150		15.222
	Deduction-roof slab-filter bed	3.0000	2.200	1.880	0.150		-1.861
	Deduction-roof slab-pipe gallery	- 1.0000 0	1.750	9.500	0.150		-2.494
	GF roof beam	2.0000 0	16.330	0.300	0.450		4.409
	GF roof beam	2.0000	12.280	0.300	0.450		3.316
	GF roof beam	1.0000	8.400	0.300	0.450		1.134
	GF roof beam	3.0000	11.500	0.300	0.450		4.658
	GF roof beam	1.0000	4.030	0.300	0.450		0.544
	GF roof beam	3.0000	3.300	0.300	0.450		1.337
	GF lintel	1.0000	121.050	0.200	0.150		3.632
	Sunshade	1.0000	81.000	0.600	0.100		4.860
	GF -roof slab	1.0000	12.500	11.800	0.150		22.125
	GF -roof slab- deduction	1.0000	4.050	7.480	0.150		-4.544
	GF -roof slab- porch	1.0000	8.700	3.450	0.150		4.502
	GF -roof slab- deduction-stair portion	1.0000	3.000	2.340	0.150		-1.053

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Staircase to alum lime tank	$\begin{array}{c} 24.000\\00\end{array}$	1.000	0.300	0.150	$\begin{array}{c} 0.5000\\00\end{array}$	0.540
	Staircase landing	$2.0000 \\ 0$	1.000	1.000	0.150		0.300
	Staircase slab	1.0000 0	4.470	1.000	0.100		0.447
	Staircase slab	1.0000 0	4.020	1.000	0.100		0.402
	Main staircase steps	$\begin{array}{c} 22.000\\00\end{array}$	1.200	0.300	0.150	$\begin{array}{c} 0.5000\\00\end{array}$	0.594
	Main staircase landing	2.0000	1.200	1.200	0.150		0.432
	Main staircase slab	1.0000	3.500	1.200	0.100		0.420
	Main staircase slab	1.0000	2.300	1.200	0.100		0.276
	Main staircase slab	1.0000	1.700	1.200	0.100		0.204
	FF roof beam	4.0000	12.400	0.300	0.450		6.696
	FF roof beam	4.0000	11.500	0.300	0.450		6.210
	Alum,lime tank slab	1.0000	4.500	2.500	0.200		2.250
	Alum, lime tank - side wall	2.0000	4.500	0.150	1.300		1.755
	Alum, lime tank - side wall	5.0000	1.500	0.150	1.300		1.463
	Alum, lime tank - partitian wall	1.0000	4.500	0.150	0.500		0.338
	Alum, lime room landing	1.0000	4.830	0.900	0.150		0.652
	FF lintel	1.0000	87.500	0.200	0.150		2.625
	Sunshade	1.0000	50.200	0.600	0.100		3.012
	FF roof slab	1.0000	12.700	11.800	0.150		22.479
	Main staircase steps	22.000	1.200	0.300	0.150	$\begin{array}{c} 0.5000\\00\end{array}$	0.594
	Main staircase landing	2.0000	1.200	1.200	0.100		0.288
	Main staircase slab	1.0000	3.500	1.200	0.100		0.420

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main staircase slab	1.0000 0	2.300	1.200	0.100		0.276
	Main staircase slab	1.0000 0	1.700	1.200	0.100		0.204
	Stair case to B/W tank step	$\begin{array}{c} 15.000\\00\end{array}$	0.900	0.300	0.200	$\begin{array}{c} 0.5000\\00\end{array}$	0.405
	Stair case to B/W tank landing	1.0000 0	0.900	0.900	0.150		0.122
	Stair case to B/W tank slab	1.0000 0	5.400	0.900	0.100		0.486
	Wash water slab	6.0000 0	3.000	0.600	0.150		1.620
	Wash water trough-side wall	$\begin{array}{c} 12.000\\00\end{array}$	3.000	0.150	0.300		1.620
	Back wash water tank-side wall	1.0000 0	21.360	0.250	3.400		18.156
	Back wash water tank-haunch	1.0000 0	22.160	0.300	0.700		4.654
	Back wash water tank-cover slab	1.0000	8.38 <mark>0</mark>	4.900	0.150		6.159
	Back wash water tank-beams	1.0000 0	3.800	0.300	0.300		0.342
	Back wash water tank-floor slab	1.0000 0	8.380	4.900	0.050		2.053
	Total						259.104
				То	tal Quantity	y in cum	259.104
5.009	5.34.1						
	Extra for providing specified cement c grade concrete inst in M-30 is @ 340	ontent use tead of M-	d is payable/ 25 grade BM	['] recoverable	separately.F	Providing	M-30
	Qnty same as item No. 7 & 8	1.0000	82.598+2 59.104				341.702
	Total	Ŭ	0,1101	I			341.702
				То	tal Quantity	v in cum	341.702
5.010	5.9.1			10	Yaundi	,	
5.010	Centering and shut footings, bases of a				removal of f	orm for:F	oundations,
	Centering an						
	PCC levelling	1.0000	8				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	RCC slab for bed & pipe gallery	1.0000 0	40.800		0.300		12.240
	Column Footing	31.000 00	6.000		0.150		27.900
	Column Footing - Rectangular portion	31.000 00	4.800		0.200		29.760
	Column Footing - Trapezoidal portion	31.000 00	3.200		0.450		44.640
	Column Footing - Column portion	31.000 00	1.200		0.700		26.040
	Total						146.880
				Тс	otal Quantity	y in sqm	146.880
5.011	5.9.2			10.00			
	Centering and shut thickness) includir						
	Centering a	nd shutter	ing	No Charles		r	
	Side wall of bed including pipe gallery	6.0000 0	11.500	3.820	ΞĒ		263.580
	gullet wall	$2.0000 \\ 0$	11.500	3.720	ANAGEMENT		85.560
	Side wall of bed including pipe gallery	4.0000 0	8.300	3.820			126.824
	Side wall of bed including pipe gallery	4.0000 0	4.450	3.000			53.400
	C/W channel in pipe gallery side wall-inside	2.0000 0	12.320		1.000		24.640
	C/W channel in pipe gallery side wall-outside	2.0000 0	12.320		1.000		24.640
	Clear water channel cover slab	1.0000	12.320		0.9+0.3		14.784
	Clear water channel in pipe gallery bottom slab	1.0000 0	12.320		0.9+0.15 +0.15		14.784
	Manifauld side wall	12.000 00	3.000		0.500		18.000
	Manifauld cover slab	3.0000 0	3.000		0.800		7.200

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	wash water trough -inside side wall	12.000 00	3.000		0.300		10.800
	wash water trough -outside side wall	12.000 00	3.000		0.450		16.200
	Alum lime tank side wall - inside	4.0000	4.500	1.300			23.400
	Alum lime tank side wall - inside	10.000 00	1.500	1.300			19.500
	Alum , lime tank partitian wall	$2.0000 \\ 0$	4.500	0.500			4.500
	back wash water tank-side wall outside	1.0000	24.160		3.400		82.144
	back wash water tank-side wall inside	1.0000 0	22.160		2.400		53.184
	back wash water tank-haunch	$\begin{array}{c} 1.0000\\ 0\end{array}$	22.160		0.700		15.512
					_		
	Total						858.652
	Total			To	tal Quantity	y in sqm	858.652 858.652
5.012	Total 5.9.3		C-PLATFORM OF PUBLIC V	To M FOR THE M	tal Quantity	y in sqm	
5.012		ttering inc ngs, balco	luding strutti nies and acce	ng, etc. and 1	ANAGEMENT		858.652
5.012	5.9.3 Centering and shut	ngs, balco	nies and acce	ng, etc. and 1	ANAGEMENT		858.652
5.012	5.9.3 Centering and shut floors, roofs, landi	ngs, balco	nies and acce	ng, etc. and 1	ANAGEMENT		858.652
5.012	5.9.3 Centering and shut floors, roofs, landi Centering and C/W channel	ngs, balco shuttering	nies and acce	ng, etc. and i ess platform	ANAGEMENT		858.652 uspended
5.012	5.9.3 Centering and shut floors, roofs, landi Centering and C/W channel cover slab C/W channel	ngs, balco shuttering 1.0000 0 2.0000	nies and acce g 12.320 12.32+0.	ng, etc. and r ess platform 0.900	ANAGEMENT		858.652 uspended 11.088
5.012	5.9.3 Centering and shut floors, roofs, landi Centering and C/W channel cover slab C/W channel cover slab- side Roof slab of filter	ngs, balco shuttering 1.0000 0 2.0000 0	nies and acce g 12.320 12.32+0. 9	ng, etc. and r ess platform 0.900 0.100	ANAGEMENT		858.652 uspended 11.088 2.644
5.012	5.9.3 Centering and shut floors, roofs, landi Centering and C/W channel cover slab C/W channel cover slab- side Roof slab of filter bed Deduction -roof	ngs, balco shuttering 1.0000 0 2.0000 0 1.0000 0 -	nies and acce g 12.320 12.32+0. 9 8.600	ng, etc. and r ess platform 0.900 0.100 11.800	ANAGEMENT		858.652 uspended 11.088 2.644 101.480
5.012	5.9.3 Centering and shut floors, roofs, landi Centering and C/W channel cover slab C/W channel cover slab- side Roof slab of filter bed Deduction -roof slab of filter bed Deduction -roof	ngs, balco shuttering 1.0000 0 2.0000 0 1.0000 0 - 3.0000 0 -	nies and acce g 12.320 12.32+0. 9 8.600 2.200	ng, etc. and n ess platform 0.900 0.100 11.800 1.880	ANAGEMENT		858.652 uspended 11.088 2.644 101.480 -12.408
5.012	 5.9.3 Centering and shut floors, roofs, landi Centering and C/W channel cover slab C/W channel cover slab- side Roof slab of filter bed Deduction -roof slab of filter bed Deduction -roof slab of filter bed Roof slab side of 	$ \begin{array}{r} ngs, balco shuttering 1.0000 0 2.0000 0 1.0000 0 - 1.0000 0 - 1.0000 0 - 1.0000 0 - 1.0000 0 - 1.0000 0 - 1.0000 0 0 - 1.0000 0 0 - 1.0000 0 0 - 1.0000 0 0 0 - 1.0000 0 0 0 - 1.0000 0 0 0 0 0 0 0 0 $	nies and acce g 12.320 12.32+0. 9 8.600 2.200 1.750	ng, etc. and n ess platform 0.900 0.100 11.800 1.880 9.500	ANAGEMENT		858.652 uspended 11.088 2.644 101.480 -12.408 -16.625

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main Stair case - slab	$2.0000 \\ 0$	2.300	1.200			5.520
	Main Stair case - slab	$2.0000 \\ 0$	1.700	1.200			4.080
	Stair case to back wash water tank- landing	1.0000	0.900	0.900			0.810
	Stair case to back wash water tank- slab	1.0000 0	5.400	0.900			4.860
	Alum lime tank - landing	1.0000 0	4.830	0.900			4.347
	Stair alum lime tank landing	$2.0000 \\ 0$	1.000	1.000			2.000
	Stair case to alum lime tank	$\begin{array}{c} 1.0000\\ 0\end{array}$	4.470	1.000			4.470
	Stair case to alum lime tank	$\begin{array}{c} 1.0000\\ 0\end{array}$	4.020	1.000			4.020
	GF Roof slab	1.0000 0	24.800	11.800	_		292.640
	GF Roof slab - deduction	- 1.0000 0	4.050	7.480			-30.294
	GF Roof slab porch	1.0000 0	8.700	3.300			28.710
	GF roof slab- deduction-stair portion	- 1.0000 0	3.000	2.340			-7.020
	GF - roof slab side	1.0000 0	79.800		0.150		11.970
	FF - roof slab	1.0000 0	12.700	11.800			149.860
	FF - roof slab side	1.0000	49.000		0.150		7.350
	Stair case to Wash water tank	1.0000	5.400	0.900			4.860
	Stair case to Wash water tank	1.0000	0.900	0.900			0.810
	Back wash water tank-cover slab	1.0000	8.380	4.900			41.062
	Back wash water tank-cover slab- sides	1.0000	26.560	0.150			3.984
	Total						640.498
				To	otal Quantit	y in sqm	640.498

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
5.013	5.9.5										
	Centering and shut beams, plinth bear					orm for:L	intels,				
	Centering and shuttering										
	beam under filter bed	3.0000 0	11.500	1.650			56.925				
	beam under filter bed	4.0000 0	8.300	1.650			54.780				
	Filter house plinth beam	$2.0000 \\ 0$	16.330	1.650			53.889				
	Filter house plinth beam	$2.0000 \\ 0$	12.280	1.650			40.524				
	Filter house plinth beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	8.400	1.200			10.080				
	Filter house plinth beam	3.0000 0	11.500	1.650			56.925				
	Filter house plinth beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	4.030	1.650			6.650				
	GF lintel	$2.0000 \\ 0$	121.050	3-16	0.150		36.315				
	GF sunshade	$\begin{array}{c} 1.0000\\ 0\end{array}$	81.000		0.700		56.700				
	GF roof beam	$2.0000 \\ 0$	16.330	1.200			39.192				
	GF roof beam	2.0000 0	12.280	1.200			29.472				
	GF roof beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	8.400	1.200			10.080				
	GF roof beam	3.0000 0	11.500	1.200			41.400				
	GF roof beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	4.030	1.200			4.836				
	GF roof beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	3.300	1.200			3.960				
	FF lintel	2.0000	87.500		0.150		26.250				
	FF sunshade	1.0000	50.200		0.700		35.140				
	FF roof beam	4.0000 0	12.400	1.200			59.520				
	FF roof beam	4.0000	11.500	1.200			55.200				
	Back wash water tank-beams	2.0000 0	7.280	0.900			13.104				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity					
	Back wash water tank-beams	3.0000 0	3.650	0.900			9.855					
	Total						700.797					
				Т	otal Quantity	y in sqm	700.797					
5.014												
	Centering and shuttering including strutting, etc. and removal of form for:Column Pillars, Piers, Abutments, Posts and Struts											
	Centering and sl	huttering				r						
	Column in filter bed	12.000 00	2.100	3.800			95.760					
	Column in filter bed	$\begin{array}{c} 4.0000\\ 0\end{array}$	1.200	3.800			18.240					
	Column in filter bed	6.0000 0	1.200	2.170			15.624					
	Column GF	26.000 00	2.100	4.000			218.400					
	Column GF	5.0000 0	1.200	4.000			24.000					
	Column FF	16.000 00	1.500	3.000			72.000					
	Column backwash water tank	6.0000 0	1.200	M FOR THE M WORKS	3.100		22.320					
	Total						466.344					
				Т	otal Quantit	y in sqm	466.344					
5.015	5.9.7											
	Centering and shut (excluding landing	ttering incl s) except	luding strutt spiral - stair	ing, etc. and rcases)	removal of f	orm for:St	airs,					
	Centering and sh	uttering										
	Stair case to alum lime tank - steps	24.000 00	1.000	0.150			3.600					
	Stair case slab side	1.0000 0	4.470	0.100			0.447					
	Stair case slab side	1.0000	4.020	0.100			0.402					
	Stair case landing slab side	$2.0000 \\ 0$	1.000	0.100			0.200					
	Main Stair case steps GF	44.000 00	1.200	0.150			7.920					
	Main Stair case landing slab side	4.0000 0	1.200	0.100			0.480					
	Main Stair case -	2.0000	3.500	0.100			0.700					

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Main Stair case - slab side	2.0000	2.300	0.100			0.460		
	Main Stair case - slab	2.0000	1.700	0.100			0.340		
	Stair case to B/W tank steps	15.000 00	0.900	0.200			2.700		
	Stair case to B/W tank landing slab side	1.0000 0	0.900	0.100			0.090		
	Stair case to B/W tank slab side	1.0000	5.400	0.100			0.540		
	Total								
	Total 17 Total Quantity in sqm 17								
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 rein	forcement	10303	200					
	Qnty same as item no.8	1.0000	341.702	3-11		$\begin{array}{c} 120.00\\0000\end{array}$	41004.24 0		
	Total		e-PLATFOR	M FOR THE M	41004.24 0				
				Total Q	Quantity in k	kilogram	41004.24 0		
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 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								
	filter bed - side	3.0000				ui			
	wall	0	11.500		3.820		131.790		
	filter bed - side	2.0000							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	filter bed - side wall	$\begin{array}{c} 4.0000\\0\end{array}$	4.450		3.000		53.400
	filter bed - gullet wall	$2.0000 \\ 0$	11.500		3.720		85.560
	WW trough - side wall	24.000 00	3.000		0.300		21.600
	Manifauld - side wall	6.0000 0	3.000		0.500		9.000
	Clear water channel in pipe gallery side wall	2.0000 0	12.320		1.000		24.640
	Back wash water tank - side wall	1.0000 0	22.160		3.400		75.344
	Total						464.746
				Тс	otal Quantity	v in sqm	464.746
5.018	22.23.2		1				
	lintegral crystalline	slurry: 2	parts water)	for vertical s		: 2 (5 pa 3 : 1 (3 pa	
	integral crystalline integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The produc leakage.For horizo	slurry : 1 e (internal irements a ncrete by p stant to 16 able of sel t all comp ct perform	part water) for base specified in more than 90 bar hydrosta f-healing of c lete as per spe- ance shall ca	or horizonta ne help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the	arts g the he material g as per crystalline he work
	integral crystalline same from negative shall meet the require permeability of con DIN 1048 and resis slurry shall be capa shall be carried out engineerin- charge. The product	slurry : 1 e (internal irements a ncrete by stant to 16 able of sel t all comp ct perform ntal surfac	part water) for back of the second second part water of the second part water of the second part hydrosta f-healing of collete as per spe- ance shall ca ce one coat @	or horizonta he help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante 01.10 kg per	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years sqm.	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the s against	arts g the he material g as per crystalline he work
	integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The produc leakage.For horizo	slurry : 1 e (internal irements a ncrete by stant to 16 able of sel t all comp ct perform ntal surfac	part water) for back of the second second part water of the second part water of the second part hydrosta f-healing of collete as per spe- ance shall ca ce one coat @	or horizonta he help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante 01.10 kg per	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years sqm.	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the s against	arts g the he material g as per crystalline he work any
	integral crystalline same from negative shall meet the requipermeability of con DIN 1048 and resis slurry shall be capa shall be carried out engineerin- charge. The produce leakage.For horizo Providing Crystal Floor slab of filter bed including pipe	slurry : 1 e (internal irements a ncrete by stant to 16 able of sel t all comp ct perform <u>ntal surfac</u> lline slurry	part water) for bar specified in more than 90 bar hydrosta f-healing of c lete as per speciation ance shall ca ce one coat @ / for water pr	or horizonta ne help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante 21.10 kg per coofing treat	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years sqm.	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the s against	arts g the he material g as per crystalline he work any 95.450
	integral crystalline same from negative shall meet the requipermeability of con DIN 1048 and resis slurry shall be capa shall be carried out engineerin- charge. The produce leakage.For horizo Providing Crystal Floor slab of filter bed including pipe gallery	slurry : 1 e (internal irements a ncrete by a stant to 16 able of sel t all comp ct perform ntal surfac lline slurry 1.0000 0 6.0000	part water) for bar specified in more than 90 bar hydrosta f-healing of c lete as per speciation ance shall ca <u>ce one coat @</u> 11.500	or horizonta ne help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante <u>0 1.10 kg per</u> coofing treatu 8.300	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years sqm.	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the s against	arts g the he material g as per crystalline he work
	integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The produc leakage.For horizo Providing Crystal Floor slab of filter bed including pipe gallery WW trough slab Clear water channel in pipe	slurry : 1 e (internal irements a ncrete by r stant to 16 able of sel t all comp ct perform ntal surfac lline slurry 1.0000 0 6.0000 0 1.0000	part water) fo) side with the as specified in more than 90 5 bar hydrosta f-healing of c lete as per spe ance shall ca ce one coat @ / for water pr 11.500 3.000	or horizonta ne help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante 01.10 kg per coofing treats 8.300 0.600	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years sqm.	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the s against	arts g the ne material g as per crystalline he work any 95.450 10.800 11.088
	integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resis slurry shall be capa shall be carried out engineerin- charge. The produce leakage.For horizo Providing Crystal Floor slab of filter bed including pipe gallery WW trough slab Clear water channel in pipe gallery Back wash water	slurry : 1 e (internal irements a ncrete by a stant to 16 able of sel t all comp ct perform ntal surfac lline slurry 1.0000 0 6.0000 0 1.0000 0	part water) fo) side with the as specified in more than 90 5 bar hydrosta f-healing of c lete as per spe ance shall ca <u>ce one coat @</u> 11.500 3.000 12.320	or horizonta ne help of sy n ACI-212-3 % compared atic pressure cracks up to ecification a rry guarante 01.10 kg per 00fing treat 8.300 0.600 0.900	surfaces and 3 l surfaces and nthetic fiber l BR-2010 i.e by l with control on negative s a width of 0.5 nd the directi e for 10 years sqm.	3 : 1 (3 pa d applying brush. Th y reducing concrete side. The 50mm. The ion of the s against	arts g the he material g as per crystalline he work any 95.450 10.800

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	1.0000 0	121.050	0.200	3.000		72.630			
	Parapet wall	$\begin{array}{c} 1.0000\\ 0\end{array}$	72.000	0.200	0.750		10.800			
	First floor	1.0000 0	87.500	0.200	3.000		52.500			
	Parapet wall	1.0000 0	47.000	0.200	0.750		7.050			
	Deduction - Lintel GF	- 1.0000 0	121.050	0.200	0.150		-3.632			
	Deduction - Lintel FF	- 1.0000 0	87.500	0.200	0.150		-2.625			
	Deduction - Rolling shutter	- 2.0000 0	3.000	0.200	2.800		-3.360			
	Deduction - Rolling shutter	1.0000	1.500	0.200	2.100		-0.630			
	Deduction - Jalli work	- 2.0000 0	3.000	0.200	1.800		-2.160			
	Deduction - Opening	- 1.0000 0	1.200	0.200	2.100		-0.504			
	Deduction -Door	- 4.0000 0	0.800	0.200	2.100		-1.344			
	Deduction -Door	- 5.0000 0	0.900	0.200	2.100		-1.890			
	Deduction - Door& window	- 1.0000 0	2.000	0.200	2.100		-0.840			
	Deduction - window	- 19.000 00	1.500	0.200	1.400		-7.980			
	Deduction - ventilator	- 2.0000 0	1.000	0.200	0.600		-0.240			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Deduction - column width	- 43.000 00	0.300	0.200	3.000		-7.740
	Total	ŀ	·	ł	·		110.035
				To	tal Quantity	y in cum	110.035
5.020	5.18.2						
	Providing precast of stone aggregate 6 r including centering cement mortar 1:3 jambs, sills and sof	nm noming and shut (1 cemen ffits.40 mm	hal size) reint tering, rough t : 3 fine sand	forced with 1 lening cleani	6 mm dia n ng, fixing an	hild steel v d finishin	wire g in
	Providing jali wo	2.0000	3.000	1.800			10 800
	jali work	0	5.000	1.800			10.800
	Total		A	T.	4-1 0		10.800
5.021	13.1.1		14-163		otal Quantit	y in sqm	10.800
5.021	12 mm cement pla	ster of mi	v·1·/ (1 cem	$ent \cdot A fine s$	and)		
			astering 12m				
	column - filter bed	12.000 00	2.100	M FOR THE M	3.800		95.760
	column - filter bed	4.0000 0	1.200	WORKS	3.800		18.240
	column - filter bed	6.0000 0	1.200		2.170		15.624
	column - GF	26.000 00	2.100		4.000		218.400
	column - GF	5.0000 0	1.200		4.000		24.000
	column - GF	16.000 00	1.500		3.000		72.000
	GF - out side wall	1.0000 0	72.000		3.000		216.000
	GF - out side wall	1.0000 0	70.400		3.000		211.200
	GF -wall - lobby	1.0000 0	7.18+3.4 5+3.85+3 .85		3.000		54.990
	GF -wall -blower	1.0000 0	14.800		3.000		44.400
	GF -wall - Chlorine room	1.0000 0	4.07+4.0 7+4.07+7 .18		4.000		77.560

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	GF -wall - Chemical room	$\begin{array}{c} 1.0000\\ 0\end{array}$	9.330		4.000		37.320
	GF -wall -Toilet & wash	$2.0000 \\ 0$	16.760		4.000		134.080
	filter bed floor slab	$\begin{array}{c} 1.0000\\ 0\end{array}$	11.500	8.300			95.450
	Clear water channel bottom	$\begin{array}{c} 1.0000\\ 0\end{array}$	12.320	0.900			11.088
	Clear water channel side	$\begin{array}{c} 4.0000\\0\end{array}$	12.320	1.000			49.280
	filter bed including pipe gallery -side wall	3.0000 0	11.500	3.820			131.790
	filter bed including pipe gallery -side wall	4.0000 0	8.300	3.820			126.824
	filter bed including pipe gallery -side wall	4.0000 0	4.450	3.000			53.400
	gullet wall	$2.0000 \\ 0$	11.500	3.720			85.560
	W/W trough- slab	6.0000 0	3.000	0.600			10.800
	W/W trough- side wall	$\begin{array}{c} 24.000\\00\end{array}$	3.000	0.300			21.600
	Filter bed - roof beam	3.0000 0	11.500	1.650			56.925
	Filter bed - roof beam	$4.0000 \\ 0$	8.300	1.650			54.780
	GF - roof beam	$2.0000 \\ 0$	16.330	1.200			39.192
	GF - roof beam	$2.0000 \\ 0$	12.280	1.200			29.472
	GF - roof beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	8.400	1.200			10.080
	GF - roof beam	3.0000 0	11.500	1.200			41.400
	GF - roof beam	1.0000 0	4.030	1.200			4.836
	GF - roof beam	$\begin{array}{c} 1.0000\\ 0\end{array}$	3.300	1.200			3.960
	GF - Sunshade	1.0000 0	81.000	0.700			56.700
	parapet wall	1.0000	72.000	1.700			122.400

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	GF - ceiling and roof top	$2.0000 \\ 0$	291.070				582.140
	FF - wall - outside and inside	$2.0000 \\ 0$	47.000	3.000			282.000
	FF - wall - long wall	$\begin{array}{c} 4.0000\\ 0\end{array}$	12.000	3.000			144.000
	FF - wall - short wall	4.0000 0	11.100	3.000			133.200
	FF - wall - toilet	2.0000 0	1.520	3.000			9.120
	GF - wall - alum lime tank	8.0000 0	1.500	3.000			36.000
	GF - wall - alum lime room	3.0000 0	4.300	3.000			38.700
	FF - roof beam	4.0000 0	12.400	1.200			59.520
	FF - roof beam	$\begin{array}{c} 4.0000\\ 0\end{array}$	11.500	1.200			55.200
	FF - roof beam	1.0000 0	4.35 <mark>0</mark>	1.200			5.220
	FF - sunshade	$\begin{array}{c} 1.0000\\ 0\end{array}$	50.200	1.300	_E		65.260
	FF - roof ceiling and top	2.0000 0	133.200	M FOR THE M WORKS	ANAGEMENT		266.400
	Parapet wall	$2.0000 \\ 0$	47.000	1.700			159.800
	Back wash water tank - side wall	$\begin{array}{c} 1.0000\\ 0\end{array}$	24.160		3.400		82.144
	Back wash water tank - side wall inside	1.0000 0	22.160		2.400		53.184
	Back wash water tank - cover slab	$\begin{array}{c} 1.0000\\ 0\end{array}$	8.380	4.900			41.062
	Back wash water tank - cover slab - sides	1.0000 0	26.560		0.150		3.984
	Back wash water tank - beams	$\begin{array}{c} 1.0000\\ 0\end{array}$	3.650		0.900		3.285
	deduction - Rolling shutter	2.0000	3.000	2.800			-16.800
	deduction - Rolling shutter	- 1.0000 0	1.500	2.100			-3.150

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	deduction - Jalli work	2.0000	3.000	1.800			-10.800
	deduction - opening	- 1.0000 0	1.200	2.100			-2.520
	deduction - Door& window	- 1.0000 0	2.000	2.100			-4.200
	deduction - Door	- 4.0000 0	0.800	2.100			-6.720
	deduction - Door	- 5.0000 0	0.900	2.100			-9.450
	deduction - window	- 19.000 00	1.500	1.400			-39.900
	deduction - ventilators	- 2.0000 0	1.000	0.600			-1.200
	Total						4150.590
			C-PLATEOR	То	tal Quantit	y in sqm	4150.590
5.022	13.43.1	_	OF PUBLIC V	NORKS			
	Applying one coat manufacture on wa					brand and	
	Applying one co	at of ceme	ent primer			F	
	Qnty same as item no. 18	1.0000	4150.590				4150.590
	Deduction - Back wash water tank -	- 1.0000	22.160		2.400		-53.184
	side wall inside	0					
	side wall inside Deduction - Back wash water tank - side wall - Beam	0 - 1.0000 0	3.650		0.900		-3.285
	Deduction - Back wash water tank -	0 - 1.0000 0	3.650		0.900		-3.285 4094.121
	Deduction - Back wash water tank - side wall - Beam	0 - 1.0000 0	3.650	To	0.900 tal Quantity	y in sqm	
5.023	Deduction - Back wash water tank - side wall - Beam	0 - 1.0000 0	3.650	То		y in sqm	4094.121
5.023	Deduction - Back wash water tank - side wall - Beam Total	0	mulsion paint	t of approved	tal Quantit	·	4094.121 4094.121
5.023	Deduction - Back wash water tank - side wall - Beam Total 13.60.1 Wall painting with	0 acrylic en o or more	mulsion paint coats on new	t of approved work	tal Quantit	·	4094.121 4094.121
5.023	Deduction - Back wash water tank - side wall - Beam Total 13.60.1 Wall painting with an even shade:Two	0 acrylic en o or more	mulsion paint coats on new	t of approved work	tal Quantit	·	4094.121 4094.121

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
				Тс	otal Quantit	y 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, fix in position and applying a priming coat of approved steel primer using structural si etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works Steel work										
	For Ladder	2.0000			50.000		100.000				
	For hand rail 1.0000				150.000		150.000				
	Total						250.000				
				147).	Total Quant	ity in kg	250.000				
5.025	10.6.1		68	22							
	laths, interlocked t end locks, mounte arrangements for i including the cost manufactured from - part 1 and M.S. t laths with 1.25 mm	d on speci nside and of providi n high tens op cover o	ally designed outside lock ng and fixing sile steel wir of required th	d pipe shaft v ing with pusl g necessary 2 e of adequate	with brackets h and pull op 27.5 cm long e strength con	s, side guid recation co wire sprin forming	des and omplete, ngs to IS: 4454				
	Supplying and fix	xing rollin	g shutter								
	Supplying and fixing rolling shutter	2.0000 0	3.000	2.800			16.800				
	Supplying and fixing rolling shutter	1.0000 0	1.500	2.100			3.150				
	Total						19.950				
				Тс	otal Quantit	y 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										
	Steel painting	г				r					
	Rolling shutter	2.0000	3.000	2.500		2.4000 00	36.000				
		-	3.000 1.500	2.500 2.100			36.000 7.560				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
				T	otal Quantit	y in sqm	43.560			
5.027	100.36.1									
	Filling water with of 5 km (average) height not less that and other applienc	to the rese n 3 m usir	ervoir site an ng 5 HP diese	d pumping tl el engine pur	ne water into	the reserv	voir of			
	Filling with wate	r								
	For back wash water tank	1.0000	79.000				79.000			
	Total						79.000			
	Total Quantity in Kilo litre									
5.028	Total Quantity in Kilo litre 7 100.41.33 7									
	Supplying and fixi charges including	all cost, la	abour charges	s etc., compl		medium d	luty)			
	Supplying and fix		<u>nm dia CI M</u>	H indicator						
	For back wash water tank	2.0000	ALC: NO	80131			2.000			
	Total						2.000			
					Total Quant	ity in no	2.000			
5.029	OD194246/2023-2	2024	PLATEOR	M FOR THE M	ANAGEMENT					
	Supply and Fitting	; 100 mm	CI Vent cow	VORKS						
	Supply and Fitin	ng 100 mr	n Vent cowl							
	Back wash water tank	4.0000 0					4.000			
	Total						4.000			
				,	Total Quant	ity 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 Alum		or and windo	WS		0.5000				
	Door & window- vertical	4.0000	2.100			$\begin{array}{c} 0.5800\\00\end{array}$	4.872			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Door & window- horizontal	$2.0000 \\ 0$	2.000			0.5800 00	2.320
	Door - vertical	$\begin{array}{c} 10.000\\00\end{array}$	2.100			0.5800 00	12.180
	Door - horizontal	$5.0000 \\ 0$	0.900			$\begin{array}{c} 0.5800\\00\end{array}$	2.610
	Door - vertical	8.0000 0	2.100			$\begin{array}{c} 0.5800\\00\end{array}$	9.744
	Door - horizontal	8.0000 0	0.800			$\begin{array}{c} 0.5800\\00\end{array}$	3.712
	window- vertical	76.000 00	1.400			$\begin{array}{c} 0.5800\\00\end{array}$	61.712
	window- horizontal	38.000 00	1.500			$\begin{array}{c} 0.5800\\00\end{array}$	33.060
	Ventilator - vertical	6.0000 0	0.600	2		$\begin{array}{c} 0.5800\\00\end{array}$	2.088
	Ventilator- horizontal	4.0000	1.000	230		$\begin{array}{c} 0.5800\\00\end{array}$	2.320
	Total		see 10	Sec. 1			134.618
					Fotal Quant	tity in kg	134.618
5.031	21.3.1 Providing and fixin	ng glazing	in aluminiu	m door, wind	dow, ventilat	tor shutter	s and
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness	EPDM ru ings and th eading sha	bber / neopro ne directions ll be paid in b	m door, wind ene gasket e of Engineer basic item): ¹	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be	EPDM ru ings and th eading sha	bber / neopro ne directions ll be paid in b	m door, wind ene gasket e of Engineer basic item): ¹	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness	EPDM ru ings and th eading sha	bber / neopro ne directions ll be paid in b	m door, wind ene gasket e of Engineer basic item): ¹	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin	ÉPDM ru ngs and th eading sha	bber / neopro ne directions ll be paid in um door &an	m door, wind ene gasket e of Engineer basic item):' np; window	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and of 4.0 mm
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin Door & window	ÉPDM ru ngs and th eading sha g aluminiu 1.0000 0	abber / neopro- ne directions Il be paid in <u>am door &an</u> 1.000	m door, wind ene gasket e of Engineer basic item):' np; window 2.100	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and of 4.0 mm 2.100
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin Door & window Door & window	ÉPDM ru ngs and th eading sha g aluminiu 1.0000 0 2.0000 0	abber / neopro- ne directions Il be paid in 1 1000 1.000 0.500	m door, wind ene gasket e of Engineer basic item):' np; window 2.100 2.100	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and of 4.0 mm 2.100 2.100
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin Door & window Door & window Door	EPDM ru ngs and th eading sha <u>g aluminiu</u> 1.0000 0 2.0000 0 5.0000 0	bber / neopro- ne directions Il be paid in 1 1000 and 2000 0.500 0.900	m door, wind ene gasket e of Engineer basic item): np; window 2.100 2.100 2.100	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and of 4.0 mm 2.100 2.100 9.450
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin Door & window Door & window Door Door	$\begin{array}{c} {\rm EPDM \ ru} \\ {\rm ngs \ and \ th} \\ {\rm eading \ sha} \\ \hline \\ {\rm g \ aluminiu} \\ 1.0000 \\ 0 \\ \hline \\ 2.0000 \\ 0 \\ \hline \\ 5.0000 \\ 0 \\ \hline \\ 4.0000 \\ 0 \\ \hline \\ 57.000 \end{array}$	abber / neopro- ne directions Il be paid in <u>am door & an</u> 1.000 0.500 0.900 0.800	m door, wind ene gasket e of Engineer basic item):' np; window 2.100 2.100 2.100 2.100	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and of 4.0 mm 2.100 2.100 9.450 6.720
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin Door & window Door & window Door Door Windows	EPDM ru ngs and th eading sha g aluminiu 1.0000 0 2.0000 0 5.0000 0 4.0000 0 57.000 00	abber / neopro- ne directions Il be paid in <u>am door & an</u> 1.000 0.500 0.900 0.800 0.500	m door, wind ene gasket e of Engineer basic item):' np; window 2.100 2.100 2.100 2.100 1.400	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of	s and of 4.0 mm 2.100 2.100 9.450 6.720 39.900
5.031	Providing and fixin partitions etc. with architectural drawi aluminium snap be thickness Providing glazin Door & window Door & window Door Door Windows Ventilator	EPDM ru ngs and th eading sha g aluminiu 1.0000 0 2.0000 0 5.0000 0 4.0000 0 57.000 00	abber / neopro- ne directions Il be paid in <u>am door & an</u> 1.000 0.500 0.900 0.800 0.500	m door, wind ene gasket e of Engineer basic item): np; window 2.100 2.100 2.100 2.100 1.400 0.600	dow, ventilat tc. complete - in -Charge With float gl	tor shutters as per the . (Cost of ass panes of	s and of 4.0 mm 2.100 2.100 9.450 6.720 39.900 1.200

	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing and fixin required shade acc of approved design window frame with including cutting th and fixing approve complete as per rea to be measured for	ording to h/pattern, h C.P brass he grill to ed anodise quirement	IS : 1868 wi with approve ss/stainless st proper open ad aluminium and directio	th minimum ed standard so teel screws @ ing size for f standard sec	anodic coati ection and fi 200 mm ce ixing and op ction around	ng of grac xed to the entre to ce eration of the openi	le AC 15) existing ntre, handles ng, all
	Providing Alumi	nium gril	1				
	Door & Windows	30.000 00	0.500			$\begin{array}{c} 0.2500\\00\end{array}$	3.750
	Windows	190.00 000	1.500			$\begin{array}{c} 0.2500\\00\end{array}$	71.250
	Ventilator	8.0000 0	1.000			$\begin{array}{c} 0.2500\\00\end{array}$	2.000
	Total			1-0			77.000
			a de la		Fotal Quant	ity in kg	77.000
5.033	11.41.4		16103	20177			
						5 VVILII VVII	ite cement
	and matching pign Laying vitrif	fied floor	complete.Si				te cement
			complete.Si				
	Laying vitrif	fied floor	complete.Si tiles	ze of Tile 10			27.854
	Laying vitrif G.F. Lobby	fied floor 1.0000 0	complete.Si tiles 3.800	ze of Tile 10 7.330			27.854 13.668 95.450
	Laying vitrif G.F. Lobby Blower	<u>ried floor</u> 1.0000 0 1.0000 0	complete.Si tiles 3.800 3.850	ze of Tile 10 7.330 3.550			27.854 13.668 95.450
	Laying vitrif G.F. Lobby Blower Filter slab Filter slab	<u>ried floor</u> 1.0000 0 1.0000 0 1.0000 0 -	complete.Si tiles 3.800 3.850 11.500	ze of Tile 10 7.330 3.550 8.300			27.854 13.668 95.450 -16.625
	Laying vitrif G.F. Lobby Blower Filter slab Filter slab deduction Filter slab	Tied floor 1.0000 0 1.0000 0 1.0000 0 1.0000 0 1.0000 0 1.0000 0	complete.Si tiles 3.800 3.850 11.500 1.750	ze of Tile 10 7.330 3.550 8.300 9.500			27.854 13.668 95.450 -16.625 -12.408
	Laying vitrif G.F. Lobby Blower Filter slab filter slab deduction Filter slab deduction Main Stair case -	fied floor 1.0000 0 1.0000 0 1.0000 0 1.0000 0 3.0000 0 22.000	complete.Si tiles 3.800 3.850 11.500 1.750 2.200	ze of Tile 10 7.330 3.550 8.300 9.500 1.880			27.854 13.668 95.450 -16.625 -12.408 8.580
	Laying vitrif G.F. Lobby Blower Filter slab Filter slab deduction Filter slab deduction Main Stair case - steps Main Stair case -	fied floor 1.0000 0 1.0000 0 1.0000 0 1.0000 0 1.0000 0 3.0000 0 22.000 00 23.000	complete.Si tiles 3.800 3.850 11.500 1.750 2.200 1.300	ze of Tile 10 7.330 3.550 8.300 9.500 1.880 0.300			27.854 13.668
	Laying vitrif G.F. Lobby Blower Filter slab Filter slab deduction Filter slab deduction Main Stair case - steps Main Stair case - steps Main Stair case -	ied floor 1.0000 0 1.0000 0 1.0000 0 1.0000 0 1.0000 0 3.0000 0 22.000 00 23.000 00	complete.Si tiles 3.800 3.850 11.500 1.750 2.200 1.300 1.300	ze of Tile 10 7.330 3.550 8.300 9.500 1.880 0.300 0.150			27.854 13.668 95.450 -16.625 -12.408 8.580 4.485

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Main Stair case - side	1.0000	1.700	0.250			0.425
	FF -stair room	1.0000	7.830	1.500			11.745
	FF -lab	1.0000	11.100	3.780			41.958
	FF - Office	1.0000	3.980	3.530			14.049
	FF -Alum lime tank landing	1.0000	4.030	1.100			4.433
	FF -Alum lime steps landing	2.0000	1.100	1.100			2.420
	FF -Alum lime steps	24.000 00	1.100	0.500			13.200
	FF -Alum lime slab side	1.0000	4.470	0.250			1.118
	FF -Alum lime slab side	1.0000	4.020	0.250			1.005
	FF -Main stair case- steps	22.000 00	1.300	0.500			14.300
	FF -Main stair case- landing	2.0000	1.300	1.300	_ E		3.380
	FF -Main stair case-side	1.0000	3.500	0.250	ANAGEMENT		0.875
	FF -Main stair case-side	1.0000	2.300	0.250			0.575
	FF -Main stair case-side	1.0000 0	1.700	0.250			0.425
	Total						235.742
				Та	otal Quantit	y in sqm	235.742
5.034	11.39 Providing and layi (thickness to be sp 15622, of approve mm thick cement with white cement	becified by d make in mortar 1:4	the manufac colours Whi (1 cement :	cturer), of 1st ite, Ivory, Gr 4 Coarse san	t quality con ey, fume Re d), including	forming to d Brown,	o IS: laid on 20
	Laying glazed	ceramic flo	oor tiles				
	GF. wash& toilet	2.0000	3.200	1.690			10.816
	FF. Toilet	1.0000	2.430	1.690			4.107
	FF. Toilet	1.0000	3.850	1.690			6.507
	Total						21.430

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
				Тс	otal Quantit	y in sqm	21.430
5.035	11.36						
	Providing and fixin (thickness to be sp shades except burg Charge, in skirting 1:3 (1 cement : 3 c including pointing	ecified by gundy, bog , risers of oarse san in white	the manufact ttle green, bla steps and da d) and jointin cement mixe	cturer), of ap ack of any siz dos, over 12 ng with grey	proved make ze as approve mm thick be cement slurr	e, in all co ed by Eng ed of ceme y @ 3.3 k	lours, ineer -in- ent mortar g per sqm,
	Laying cera		d wall tiles				
	Alum lime tank - side wall	8.0000 0	1.500	3.000			36.000
	Alum lime tank - side wall	3.0000 0	4.300	3.000			38.700
	W/W trough	6.0000 0	3.000	0.600			10.800
	W/W trough side wall	$\begin{array}{c} 24.000\\00\end{array}$	3.000	0.300			21.600
	Filter - side walls	6.0000 0	3.000	3.500			63.000
	Gullet wall	2.0000	11.50 <mark>0</mark>	3.720			85.560
	GF. Toilet & wash	1.0000	17.110	3.000	ANAGEMENT		51.330
	FF. Toilet	1.0000 0	11.860	3.000			35.580
	FF. Toilet	$\begin{array}{c} 1.0000\\ 0\end{array}$	10.280	3.000			30.840
	Total						373.410
				Te	otal Quantit	y in sqm	373.410
5.036	16.89						
	Providing and layi water absorption le colours and shades location etc., laid c in all shapes & pat matching pigments	ess than 0 s in for ou on 20mm terns incl	.5% and cont tdoor floors thick base of uding grouting	forming to IS such as footp cement mor ng the joints	5: 15622 of a bath, court ya tar 1:4 (1 cer with white co	pproved r ard, multi ment : 4 co ement mix	nake in all models parse sand)
	Laying mat finis						
	Porch	1.0000	8.400	3.300			27.720
	Total						27.720
				Te	otal Quantit	y in sqm	27.720
5.037	11.26.1						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Kota stone slab flo grey cement slurry rubbing and polish sand)25 mm thick	mixed w	ith pigment t	o match the	shade of the	slab, inclu	lding
	Kota stone slab f	flooring					
	Chemical room	1.0000	8.030	3.570			28.667
	chlorine room	1.0000	3.980	7.330			29.173
	Total						57.840
				Te	otal Quantit	y in sqm	57.840
5.038	10.26.2					•	
	Providing and fixing balcony railing, sta approves steel pring Providing and fix	aircase rai ner.E.R.W	ling and sim 7. tubes	ilar works, ir	cluding appl	lying prim	ing coat of
	staircase and balco		14-15	2444			,
	40mm dia.	1.0000	150.00 <mark>0</mark>			3.2500 00	487.500
	15mm dia.	1.0000 0	500.000	てし		$\begin{array}{c} 0.9520\\00\end{array}$	476.000
	Total		e-PLATFOR	M FOR THE M	ANAGEMENT		963.500
				,	Total Quant	ity in kg	963.500
5.039	13.71						
	Lettering with blac	ck Japan p	oint of approv	ved brand and	d manufactu	re	
	Lettering						
	Lettering	300.00 000			15.000		4500.000
	Total						4500.000
			Total Quar	ntity in per]	Letter per ci	n height	4500.000
5.040	100.55.1				•		
	Supplying of 2 to 6 free from clay, dus including cost, cor testing and as per t CPHEEO specifica	st and othe veyance u the direction	er impurities) up to 5 km au), stacking in nd labour cha	standard hea arges for stac	aps for me king, spre	asurement ading,
	Supplying, stackin	g and spre	eading fine p	ebbles			
	Fine pebbles	3.0000	3.500	3.000	0.200		6.300
	Total						6.300
				Тс	otal Quantity	y in cum	6.300

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying of 12 to dust and other imp conveyance up to the directions of th specification.	ourities), s 5km and l	tacking in sta abour charge	andard heaps es for stackin	for measure g, spreading	ment incl , testing a	uding cost,
	Supplying, stackin	g and spre	eading 12 to	20mm size p	ebbles		
	12 to 20mm size pebbles	3.0000 0	3.500	3.000	0.200		6.300
	Total						6.300
				Тс	otal Quantit	y in cum	6.300
5.042	100.55.3						
	Supplying of 20 to and other impuritie conveyance up to directions of the de	es), stacki 5 km and epartment	ng in standar labour charg officers etc.	d heaps for n es for stackin complete an	neasurement ng, spreading d as per CPH	t including , testing a	g cost, and as per
	Supplying, stackin		eading 20 to	40mm size p	ebbles		
	20 to 40mm size pebbles	3.0000 0	3.500	3.000	0.250		7.875
	Total				_		7.875
				Тс	otal Quantit	y in cum	7.875
5.043	100.55.4		-PLATFOR	M FOR THE M			
	Supplying and stat 0.70 mm and unifo - 2.65 and hard and materials, labour c directions of the do	ormity coe d clean, fr harges an epartment	efficient 1.30 ee from clay d conveyanc officers etc.	to 1.7, of sp , dust and oth e of material complete an	ecific gravity her impuritie s up to 5 km	y in the ra s includin and as pe	nge of 2.55 og cost of r the
	Supplying,stackin	<u>g and spre</u> 3.0000	eading filter	sand			
	Filter sand	3.0000 0	3.500	3.000	0.750		23.625
	Total						23.625
				Τα	otal Quantit	y in cum	23.625
5.044	100.98.460						
	Supply of CI Doul Valve with Cap Pl			ve Conformi	ng to IS 148	46 - 2000	, Sluice
	Supply 150mm va	lve					
	Supply 150mm valve	$\begin{array}{c} 1.0000\\ 0\end{array}$					1.000
	Total						1.000
				r	Total Quant	tity in no	1.000
5.045	18.66.1						
	Providing and layi caps etc., suitable						tapers and

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Providing DI spec	ials					
	100 mm dia wall casting pipe	$2.0000 \\ 0$				$\begin{array}{c} 0.2000\\00\end{array}$	0.400
	150 mm dia wall casting pipe	2.0000				0.3200	0.640
	250 mm dia wall casting pipe	1.0000 0				0.6600 00	0.660
	Total						1.700
				Tota	l Quantity i	n quintal	1.700
5.046	100.98.458						
	Supply of CI Doul Valve with Cap Pl			ve Conform	ing to IS 148	46 - 2000,	, Sluice
	Supply of 100mm	DI sluice	valve	I	I		
	100mm DI sluice valve	$2.0000 \\ 0$	d	2			2.000
	Total		a k	Ö AD			2.000
					Total Quant	tity in no	2.000
5.047	100.31.1.4						
	Conveying and fix insertions etc., cor will be paid separa	nplete, bu	t excluding t	he cost of the	y providing b e valve (tail j	olts, nuts, pieces, if r	rubber required,
	Fixing 150mm val	ve			1		
	Fixing 150mm valve	1.0000					1.000
	Total						1.000
				I	Total Quant	tity in no	1.000
5.048	100.31.1.2						
	Conveying and fix insertions etc., cor will be paid separa	nplete, bu	t excluding t	he cost of the			
	Laying of 100mm	DI sluice	valve				
	Laying of 100mm DI sluice valve	$2.0000 \\ 0$					2.000
	Total						2.000
				I	Total Quant	tity in no	2.000
5.049	OD194247/2023-2	2024					

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Supplying and pro 2 mm thick MS plate with in the fr guiding the f;loat necessary pulleys s	ame work	t of suitable s	size MS squa	re tube 160 i	nm pvc p	ipes for
	painting, the entire structure and letter		ding the char	ges of materi	ial and labou	r	
	Supplying and pro	viding wa	ter level ind	icator			
	water level indicator	1.0000 0					1.000
	Total						1.000
				r	Total Quant	ity in no	1.000
6	Clear water Sump						
6.001	OD194234/2023-2	2024					
	DOWEL BARS_S long including dril gap with cement g	ling holes	s of 20 mm d	ia to a depth	l bars of size of 100 cm ir	16 mm d rock and	ia , 200 cm filling the
	DOWEL BARS		100	NO PERS			
		1.0000	250.000	Э I Г			250.000
	Total						250.000
			e-PLATFOR OF PUBLIC	M FOR THE M WORKS	Total Quant	ity in no	250.000
6.002	4.1.3						
	Providing and layi of centering and sh (zone-III) : 4 grade	nuttering -	All work up	to plinth lev	vel:1:2:4 (cer		
	PCC 1:2:4 for lev	elling					
	for levelling Sump	1.0000 0	10.000	10.200	0.400		40.800
	Total						40.800
				To	otal Quantit	y in cum	40.800
6.003	5.33.1						
	Providing and layi 25 grade cement co as per approved de excluding the cost admixtures in reco concrete, improve direction of Engine 330 kg/ cum. Exce separately.All wor	oncrete for sign mix, of centerin mmendec workabilitieer - in-ch ss or less k upto pli	r reinforced including puing, shutterin proportions ty without in arge. Note:- cement used nth level	cement conc umping of co ug, finishing a as per IS: 91 npairing stren Cement cont as per desig	rete work, us ncrete to site and reinforce 03 to accele ngth and dur tent consider n mix is paya	sing ceme of laying ement, inc rate, retar ability as ed in this able or rec	nt content g but luding d setting of per item is @ coverable
	Providing and la M-25 grade	aying in p	osition mach	ine batched a	and machine	mixed de	sign mix

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Sump -Floor slab	1.0000	9.800	10.000	0.300		29.400
	Sump -Haunch	0.5000 0	36.400	0.300	0.700		3.822
	Total						33.222
				To	tal Quantity	y in cum	33.222
6.004	5.33.2						
	Providing and layi 25 grade cement c as per approved de excluding the cost admixtures in reco concrete, improve direction of Engine 330 kg/ cum. Exce separately.All wor	oncrete for esign mix, of centeri ommended workabili eer - in-ch ess or less k above pl	r reinforced including pung, shutterin proportions ty without in arge. Note:- cement used linth level up	cement conci imping of con g, finishing a as per IS: 91 npairing stren Cement cont as per design	rete work, us ncrete to site and reinforce 03 to acceler ogth and dura ent consider n mix is paya vel	sing ceme of layin ment, inc rate, retar ability as ed in this able or re	nt content g but luding d setting of per item is @ coverable
	mix M-25 grade	g anu layn	ig in position	i macinne ba			ixeu uesigii
	side wall	1.0000	37.40 <mark>0</mark>	0.250	3.700		34.595
	Sump-columns	4.0000	0.300	0.300	3.400		1.224
	Sump-vertical haunch	4.0000	0.400	0.400	3.700		2.368
	Sump-Roof beams-long	2.0000	9.200	0.300	0.300		1.656
	Sump-Roof beams-Short	2.0000	8.400	0.300	0.300		1.512
	Roof Slab	1.0000	9.800	10.000	0.120		11.760
	Total						53.115
				To	tal Quantity	y in cum	53.115
6.005	5.34.1						
	Extra for providing specified cement c grade concrete inst in M-30 is @ 340	content use tead of M-	ed is payable.	/ recoverable	separately.F	Providing	M-30
	Extra for providi	ng richer r	nixes at all f	loor levels.			
	Floor slab	1.0000	29.400				29.400
	side wall	1.0000	34.595				34.595
	Haunch	1.0000	3.822				3.822

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Haunch vertical	1.0000	2.368				2.368
	columns	1.0000	1.224				1.224
	Total						71.409
				Τα	tal Quantity	y in cum	71.409
6.006	5.9.1						
	Centering and shu footings, bases of				removal of f	orm for:Fo	oundations,
	Centering and	shuttering	7				
	Foundation concrete-PCC	1.0000	40.400		0.400		16.160
	Foundation concrete-RCC- sump	1.0000 0	2*(9.8+1 0)	0	0.300		11.880
	Total		a sta	sžen –			28.040
			19.6	Тс	otal Quantit	y in sqm	28.040
6.007	5.9.2						
	Centering and shu thickness) including						
	Centering and s	huttering	e-PLATFOR/	M FOR THE M	ANAGEMENT	r	
	Side wall inside	1.0000	36.400		3.700		134.680
	Side wall outside	1.0000	38.400		3.700		142.080
	Total						276.760
				Тс	otal Quantit	y in sqm	276.760
6.008	5.9.6						
	Centering and shu Pillars, Piers, Abu				removal of f	orm for:C	olumns,
	Centering and shu	ttering					
	Sump -Columns	4.0000 0	1.200		3.370		16.176
	Total						16.176
				To	otal Quantit	y in sqm	16.176
6.009	5.9.3						
6.009	5.9.3 Centering and shu floors, roofs, landi				removal of f	orm for:Su	ispended
6.009	Centering and shu	ngs, balco	nies and acco		removal of f	orm for:Su	ispended

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Roof slab - sides	1.0000 0	39.600		0.200		7.920
	Total						105.920
				To	otal Quantit	y in sqm	105.920
6.010	5.9.5						
	Centering and shube beams, plinth bear	ttering inc ns, girder	cluding strutti s bressumers	ing, etc. and and cantilev	removal of feers	orm for:L	intels,
	Centering and	shutterin	g				
	Sump roof beam-	2.0000	9.200	0.960			17.664
	long	0	9.200	0.900			17.00+
	Sump roof beam- short	$2.0000 \\ 0$	9.000	0.960			17.280
	Total						34.944
				To	otal Quantit	y in sqm	34.944
6.011	5.22.6		a se				
	Steel reinforcemer in position and bin bars of grade Fe-5	ding all c	omplete upto	ding straigh plinth level	tening, cuttir Thermo - Me	ng, bendin echanicall	ig, placing y Treated
	Reinforceme	nt		711			
	Qnty same as item no. 3&4	1.0000	33.222+5 3.115	M FOR THE M	ANAGEMENT	$120.00 \\ 0000$	10360.44 0
	Total						10360.44 0
				Total Q	Quantity in k	kilogram	10360.44 0
6.012	50.6.3.2						
	Solid block mason or nearest availabl floor two level for cost of scaffolding	e size con 10 cm thi	firming to IS ick wall in : C	2185 part I	of 1979 for s	super struc	cture up to
	Solid block masor	nry					
	for parapet	1.0000 0	39.000	0.100	0.750		2.925
	Total						2.925
				Τα	otal Quantity	y in cum	2.925
6.013	13.1.1						
	12 mm cement pla	ster of mi	x:1:4 (1 cem	ent : 4 fine s	and)		
	12 mm cen	nent plast	er				
	Sump-Floor	1.0000	9.000	9.200			82.800
	Side wall-Inside	1.0000 0	36.400		3.700		134.680

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Side wall-Outside	1.0000 0	38.400		3.700		142.080
	Sump-column	$\begin{array}{c} 4.0000\\ 0\end{array}$	1.200		3.400		16.320
	Roof slab	$\begin{array}{c} 1.0000\\ 0\end{array}$	9.800	10.000			98.000
	beam	$2.0000 \\ 0$	9.200		0.900		16.560
	beam	$2.0000 \\ 0$	8.600		0.900		15.480
	Roof slab-sides	$\begin{array}{c} 1.0000\\ 0\end{array}$	39.600		0.200		7.920
	Parapet	1.0000 0	39.000		1.600		62.400
	Total						576.240
			A	То	tal Quantity	v in sqm	576.240
6.014	22.23.1 Providing and appl						
6.014	Providing and appl waterproofing trea water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The product	tment to the time test of the time test of the time test of the time test of time test of the time test of t	he RCC struc ums, reservio c., prepared b parts water) part water) for as specified in more than 90 b bar hydrosta f-healing of c lete as per spe- nance shall ca two coats @C	tures like ret or, sewage & or mixing in for vertical s or horizontal ne help of syn n ACI-212-3 % compared atic pressure cracks up to a ecification a nry guarante 0.70 kg per s	aining walls water treatm the ratio of 5 surfaces and 3 surfaces and 3 surfaces and hthetic fiber 1 R-2010 i.e b with control on negative s a width of 0.3 nd the direction e for 10 years qm	of the ba ent plant : 2 (5 pa 3 : 1 (3 pa 1 applyin brush. Th y reducin concrete side. The 50mm. T ion of the	sement, , tunnels rts arts g the he material g as per crystalline he work
6.014	Providing and appl waterproofing trea water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried our engineerin- charge. The produc	tment to the labs, poding of deck etce slurry : 2 slurry : 1 e (internal uirements a ncrete by stant to 16 able of sel t all comp ct perform al surface	he RCC struc ums, reservio c., prepared b parts water) part water) for as specified in more than 90 b bar hydrosta f-healing of c lete as per spe- nance shall ca two coats @C	tures like ret or, sewage & or mixing in for vertical s or horizontal ne help of syn n ACI-212-3 % compared atic pressure cracks up to a ecification a nry guarante 0.70 kg per s	aining walls water treatm the ratio of 5 surfaces and 3 surfaces and 3 surfaces and hthetic fiber 1 R-2010 i.e b with control on negative s a width of 0.3 nd the direction e for 10 years qm	of the ba ent plant : 2 (5 pa 3 : 1 (3 pa 1 applyin brush. Th y reducin concrete side. The 50mm. T ion of the	sement, , tunnels rts arts g the he material ag as per crystalline he work
6.014	Providing and appl waterproofing trea water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The product	tment to the time test of tes	he RCC struc ums, reservio c., prepared b parts water) part water) for as specified in more than 90 b bar hydrosta f-healing of c lete as per spe- nance shall ca two coats @C	tures like ret or, sewage & or mixing in for vertical s or horizontal ne help of syn n ACI-212-3 % compared atic pressure cracks up to a ecification a nry guarante 0.70 kg per s	aining walls water treatm the ratio of 5 surfaces and 3 surfaces and 3 surfaces and hthetic fiber 1 R-2010 i.e b with control on negative s a width of 0.3 nd the direction e for 10 years qm	of the ba ent plant : 2 (5 pa 3 : 1 (3 pa 1 applyin brush. Th y reducin concrete side. The 50mm. T ion of the	sement, , tunnels rts arts g the he material g as per crystalline he work
6.014	Providing and appl waterproofing trea water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The produc leakage.For vertica Providing and ap	tment to the labs, poding of deck etce slurry : 2 slurry : 1 e (internal uirements a ncrete by stant to 16 able of sel t all comp ct perform al surface	he RCC struc ums, reservio c., prepared b parts water) part water) for a specified in more than 90 b bar hydrosta f-healing of c lete as per spe- nance shall ca two coats @0	tures like ret or, sewage & or mixing in for vertical s or horizontal ne help of syn n ACI-212-3 % compared atic pressure cracks up to a ecification a nry guarante 0.70 kg per s	aining walls water treatm the ratio of 5 surfaces and 3 surfaces a	of the ba ent plant : 2 (5 pa 3 : 1 (3 pa 1 applyin brush. Th y reducin concrete side. The 50mm. T ion of the	sement, , tunnels rts arts g the he material ag as per crystalline he work
6.014	Providing and appl waterproofing trea water tanks, roof s / subway and bridg integral crystalline integral crystalline same from negativ shall meet the requ permeability of con DIN 1048 and resi slurry shall be capa shall be carried out engineerin- charge. The produc leakage.For vertica Providing and ap side wall	tment to the time term of the time term of time terms of the time terms of	he RCC struc ums, reservio c., prepared b parts water) part water) for as specified in more than 90 b bar hydrosta f-healing of c lete as per spe- nance shall ca two coats @C regral crystall 36.400	tures like ret or, sewage & or mixing in for vertical s or horizontal ne help of syn n ACI-212-3 % compared atic pressure cracks up to a ecification a nry guarante 0.70 kg per s	aining walls water treatm the ratio of 5 surfaces and 3 surfaces a	of the ba ent plant : 2 (5 pa 3 : 1 (3 pa 1 applyin brush. Th y reducin concrete side. The 50mm. T ion of the	sement, , tunnels rts arts g the he material g e as per crystalline he work any 134.680

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 bas water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 par integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 pa integral crystalline slurry : 1 part water) for horizontal surfaces and applying same from negative (internal) side with the help of synthetic fiber brush. Th shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducin permeability of concrete by more than 90% compared with control concrete DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The slurry shall be capable of self-healing of cracks up to a width of 0.50mm. Th 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 a leakage.For horizontal surface one coat @1.10 kg per sqm.										
	Providing and applying integral crystalline slurry - Horizontal										
	floor slab	1.0000 0	9.000	9.200			82.800				
	Total										
	Total Quantity in sqm										
6.016	13.43.1										
	Applying one coat manufacture on wa	of water	thinnable cer Water thinn	nent primer (able cement	of approved	brand and					
		1	ment primer	WORKS	ANAGEMENT						
	Quantity same as item No 13	$1.0000 \\ 0$	576.240				576.240				
	Deduction-sump inside	- 1.0000 0	134.680				-134.680				
	Deduction-sump floor	- 1.0000 0	82.800				-82.800				
	Deduction-sump columns	- 1.0000 0	16.320				-16.320				
	Deduction-roof beams	- 1.0000 0	32.040				-32.040				
	Total										
	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	h acrylic e	mulsion pair	nt							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Qnty same as item no. 13	1.0000	570.496				570.496			
	Total						570.496			
				T	otal Quantit	y 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	1.0000				100.00 0000	100.000			
	Total						100.000			
	Total Quantity in kg									
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		e-PLATFOR OF PUBLIC	M FOR THE M WORKS	IANAGEMENT					
	Filling water	1.0000	270.000				270.000			
	Total						270.000			
				Total (Quantity in l	Kilo litre	270.000			
6.020	18.66.1									
	Providing and layi caps etc., suitable	ng S&S.C for flange	C.I Standard s d jointing as	specials such per IS: 1538	as tees, ben UPto 300 m	ds, collars 1m dia	tapers and			
	providing wall ca	sting pipe								
	250mm wall casting pipe	1.0000				0.8500 00	0.850			
	Total						0.850			
				Tota	l Quantity ii	n 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	2.0000					2.000			
	Total						2.000			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
				1	Total Quant	ity in no	2.000			
6.022	OD194235/2023-2	2024								
	Supplying and pro 2mm thi 160mm PVC pipe thread for connecti lettering
< td=""><td>ck MS pla for guidir ing float a</td><td>ate with in th ng the float,& and level indi</td><td>e frame worl clt;br>nec cator, paintin</td><td>k of suitable cessary pullie ng the entire</td><td>size MS s es, suitable structure,</td><td>quare tube, e nylon</td></br><>	ck MS pla for guidir ing float a	ate with in th ng the float,& and level indi	e frame worl clt;br>nec cator, paintin	k of suitable cessary pullie ng the entire	size MS s es, suitable structure,	quare tube, e nylon			
	Fixing water level	indicator								
	Fixing water level indicator	$\begin{array}{c} 1.0000\\ 0\end{array}$					1.000			
	Total 1.000									
	Total Quantity in no									
6.023	13.71									
	Lettering with black Japan pint of approved brand and manufacture									
	Lettering									
	Lettering	100.00 000	Le Le	84179		15.000 000	1500.000			
	Total									
	Total Quantity in per Letter per cm height									
6.024	18.31.4.2									
	Providing and fixing insertion etc. (the 200 mm diameter	tail pieces				olts, nuts,	, rubber			
	Providing and fixi	ng C.I. sl	uice valves							
	200 mm	$\begin{array}{c} 1.0000\\ 0\end{array}$					1.000			
	Total						1.000			
					Total Quant	ity in no	1.000			
6.025	18.26.1									
	Providing and layi caps etc., suitable						lars, tapers,			
	Providing and layi	ng flange	d CI standard	l specials						
	200 mm wall casting pipe	$2.0000 \\ 0$				$\begin{array}{c} 0.4420\\00\end{array}$	0.884			
	Total						0.884			
	Total Quantity in quintal									
6.026	OD194236/2023-2	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					
		7.0000					7.000					
	Total		7.000									
				I	Total Quant	tity in no	7.000					
7	Wash Water Arrar water	ngements	to nearest sa	fe drain/sour	ce after purif	ication of	wash					
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 lay	ying S &a	mp; S Centri	fugally Cast	(Spun) / Duo	tile Iron	Pipes					
		$1.0000 \\ 0$	120.000				120.000					
	Total	· · · · · · · · · · · · · · · · · · ·					120.000					
	Total Quantity in metre											
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											
		1.0000	30.000	M FOR THE N	ANAGEMENT		30.000					
	Total		0. 70000				30.000					
				Τα	otal Quantity	y in joint	30.000					
7.003	OD194240/2023-2	2024										
	Labour for cutting 200mm dia. D I pi		oipe with stee	el saw.								
	Labour for cutting	g-200 mm	DI									
		8.0000 0					8.000					
	Total						8.000					
				Total Q	Quantity in H	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	4.0000			0.320		1.280					
	200mm TP	4.0000			0.230		0.920					
	200x 200 tee	2.0000			0.410		0.820					

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Total								
				Total	Quantity ir	n quintal	3.020		
7.005	100.98.485								
	Supply of CI Doub Valve with Hand V				ng to IS 148	46 - 2000	, Sluice		
	Supply of D/F slu	ice valve							
		1.0000					1.000		
	Total	1.000							
	Total Quantity in no								
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 fix	ing C.I. s	luice valves						
		1.0000 0	El				1.000		
	Total								
	Total Quantity in no								
7.007	OD194241/2023-2024								
	DOWEL BARS_S long including dril gap with cement g	ling holes	s of 20 mm d	ia to a depth					
	Dowel bars								
		$70.000 \\ 00$					70.000		
	Total						70.000		
				r	Fotal Quant	ity in no	70.000		
7.008	100.35.3								
	Testing 200mm D 200 mm dia Observed Data der		•		-	test press	ure		
	Testing 200mm D	I/CI pipe	line						
		1.0000	120.000				120.000		
	Total								
	Total Quantity in metre								
7.009	4.1.3								
	Providing and layi of centering and sh (zone-III) : 4 grade	nuttering -	All work up	to plinth lev	vel:1:2:4 (cer				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	P.C.C 1:2:3	-							
	Anchor block	6.0000 0	0.800	0.800	0.800		3.072		
	Total		3.072						
				Τα	otal Quantity	y in cum	3.072		
7.010	5.1.3								
	Providing and layi excluding the cost to plinth level:1:2: nominal size)	of centeri	ng, shutterin	g, finishing a	and reinforce	ment - Al	l work up		
	RCC 1:2:4	Г Г							
	Anchor block	4.0000 0	1.000	1.000	1.000		4.000		
	Total								
		y 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 & amp; shuttering								
	Anchor block	6.0000 0	3.200	M FOR THE M	0.800		15.360		
	Anchor block	4.0000 0	4.000		1.000		16.000		
	Total						31.360		
				Тс	otal Quantit	y in sqm	31.360		
7.012	5.22.6								
	Steel reinforcemer in position and bin bars of grade Fe-5	iding all co	omplete upto	ding straigh plinth level	tening, cuttir Thermo - Me	ng, bendin echanicall	ig, placing y Treated		
	Steel Reinforceme	ent							
	Anchor block	1.0000 0	4.000			50.000 000	200.000		
	Total						200.000		
				Total Q	Quantity in k	ilogram	200.000		
8	Water supply and	Sanitary A	Arrangement	8					
8.001	50.18.7.1.1								
	Providing and fixing m spacing. This in cement and testing dia 12kgf/cm2 -Int	cludes joi g of joints ternal wor	nting of pipe complete as k- Exposed o	s & fittings v per direction on wall	with one step of Engineer	PVC solv-in-Charg	vent e 15mm		
	Providing and fixing	ng PVC pi	ipes, fittings	including fix	ang the pipe	with clan	nps		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
		1.0000 0	50.000				50.000		
	Total						50.000		
	Total Quantity in metre								
8.002	50.18.7.2.1								
	Providing and fixing metre spacing. This cement and testing dia 12Kgf/cm2 - In	step PVČ	solvent						
	Providing and fixing metre spacing	ng PVC p	ipes, fittings	including fix	xing the pipe	with clap	os at 1.00		
		1.0000	50.000				50.000		
	Total						50.000		
			1	Tot	al Quantity	in metre	50.000		
8.003	50.18.7.3.1		assi	5/10					
	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 m spacing.	ng PVC p	ipes, fittings	TALL PROPERTY AND	xing the pipe	with clan	nps at 1.00		
		1.0000 0	50.000				50.000		
	Total						50.000		
				Tot	al Quantity	in metre	50.000		
8.004	50.18.7.4.1								
	Providing and fixing m spacing. This in cement and testing dia 10Kgf/cm2- In	cludes joi g of joints	nting of pipe complete as	s & fittings per direction	with one step	PVC sol	vent		
	Providing and fixing m spacing.	ng PVC p	ipes, fittings	including fix	xing the pipe	with clan	nps at 1.00		
		1.0000 0	50.000				50.000		
	Total						50.000		
	Total Quantity in metre								
8.005	50.18.7.5.1								
	Providing and fixit 1.00m spacing. Th cement and testing dia 10 Kgf/cm2- In	is include g of joints	es jointing of complete as	pipes & fitti per direction	ngs with one	step PVC	Solvent		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Providing and fixing m spacing.	ng PVC p	ipes, fittings	including fix	xing the pipe	with clan	nps at 1.00			
		1.0000 0	50.000				50.000			
	Total						50.000			
		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 m spacing.	ng PVC p	ipes, fittings	including fix	xing the pipe	with clan	nps at 1.00			
		1.0000	50.000	147).			50.000			
	Total		a Se				50.000			
	Total Quantity in metre									
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 m spacing.		ipes, nuings				nps at 1.00			
		1.0000	50.000				50.000			
	Total						50.000			
				Tot	al 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.									
		1.0000	50.000				50.000			
	Total									
				Tot	al Quantity	in metre	50.000			
8.009	50.18.8.3.1									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Providing and fixi m spacing. This in cement and testing Concealed work, i 12 kgf/cm2	cludes joi g of joints	nting of pipe complete as	es & fittings per direction	with one step of Engineer	PVC sol	vent ge.				
	Providing and fixim m spacing.	ng PVC p	ipes, fittings	including fix	king the pipe	with clan	nps at 1.00				
		1.0000	50.000				50.000				
	Total		50.000								
	Total Quantity in metre										
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										
		4.0000	TA B	5AA			4.000				
	Total 4.000										
	Total Quantity in each 4.000										
8.011	18.64			< Ιι							
	Providing and fixi less than 40 gms.	ng PTMT	swivelling s	hower, 15 m	m nominal b	ore, weig	hing not				
	Providing and fixi	ng PTMT	swivelling s	hower,							
		4.0000					4.000				
	Total						4.000				
				1	Total Quant	tity 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 trench	es of requ	uired width f	or pipes, cab	les,						
		1.0000	100.000	0.300	0.600		18.000				
	Total						18.000				
				Te	otal Quantit	y 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 pip	es of 20n	nm								
		1.0000 0	30.000				30.000				
	Total						30.000				
				Tot	al 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	1.0000	30.000				30.000				
	Total 30.000										
				Tot	al Quantity	in metre	30.000				
8.015	100.98.229		C-PLATFOR OF PUBLIC	M FOR THE N WORKS	LANAGEMENT						
	Supply of PVC Pi	oe, 10kg/c	20mm I 20mm I	Dia.							
	Supply of uPVC P	ipe, IS 49	85: 2000 , 10	0kg/cm2, 201	nm.						
		1.0000	30.000				30.000				
	Total						30.000				
				Tot	al Quantity	in metre	30.000				
8.016	100.98.230										
	Supply of PVC Pi	oe, 10kg/c	25mm I 25mm I	Dia.							
	Supply of uPVC P	ipe, IS 49	85: 2000 , 10	0kg/cm2, 251	nm.						
		1.0000	30.000				30.000				
	Total						30.000				
				Tot	al Quantity	in metre	30.000				
8.017	17.2.1										
	Providing and fixin W.C. pan) with set flush pipe, with may with all fittings and and floors wherever Providing and fixin	at and lid, anually co d fixtures er require	10 litre low ontrolled dev complete, in d:W.C. pan v	level white I ice (handle 1 cluding cutti vith ISI mark	P.V.C. flushi ever), confor ng and maki	ng cistern ming to I ng good t	, including S : 7231, he walls				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Providing and fixing European type WC	3.0000 0					3.000		
	Total						3.000		
				Τα	otal Quantity	y in each	3.000		
8.018	50.17.1.3								
	Supplying and fixi materials and labo charge.								
	Supplying and fixi								
	Supplying and fixing CP towel rod	4.0000 0					4.000		
	Total						4.000		
		ity in no	4.000						
8.019	50.17.1.1		a Ki	5AD					
	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								
		4.0000 0	e-PLATFOR	M FOR THE N	ANAGEMENT		4.000		
	Total		OF PUBLIC	WORKS			4.000		
				,	Total Quant	ity in no	4.000		
8.020	50.17.1.5								
	Supplying and fixi including cost of n Engineer-in-charg	naterials a							
	Supplying and fixi		ealth Faucet s	superior qual	ity				
		4.0000					4.000		
	Total	0							
				,	Total Quant	ity in no	<u>4.000</u> 4.000		
8.021	17711				1 otal Qualit	ny m no	4.000		
0.021	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 fixi mm C.P. brass wa		basin with C.	I. brackets, 1	5 mm C.P. b	rass pillar	taps, 32		
		4.0000					4.000		
	Total				1		4.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
				Тс	otal Quantity	y in each	4.000				
8.022	17.11.2										
	Providing and fixing chain with rubber necessary C.P. bra cutting and making	plug 40 m ss unions	nm C.P brass complete, in	waste and 4 cluding pain	0 mm C.P. bitting of fitting	rass trap v gs and bra	vith ckets,				
	Providing and fixing	ng white	vitreous chin	a laboratory	sink with C.l	brackets					
		4.0000 0					4.000				
	Total						4.000				
				Тс	otal Quantity	y in each	4.000				
8.023	17.28.1.1										
	waste fittings com Semi rigid pipe32	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. vaste fittings complete. Semi rigid pipe32 mm dia									
	Providing and fixing	ng P.V.C. 4.0000	waste pipe	<u>Q4N</u>							
		4.000									
	Total 4.000										
	Total Quantity in each 4.000										
8.024	17.28.1.2		e-PLATFOR OF PUBLIC	M FOR THE M WORKS	IANAGEMENT						
	Providing and fixin waste fittings com Semi rigid pipe40	plete.	waste pipe f	for sink or wa	ash basin inc	luding PV	′C.				
	Providing and fixing	ng P.V.C.	waste pipe								
		4.0000					4.000				
	Total						4.000				
				Тс	tal Quantity	y in each	4.000				
8.025	17.28.2.1										
	Flexible pipe32 m	m dia									
	Flexible pipe32 m	m dia									
		4.0000					4.000				
	Total						4.000				
				Тс	tal Quantity	y in each	4.000				
8.026	17.28.2.2										
	Flexible pipe40 m	m dia									
	Flexible pipe40 m	m dia									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
		4.0000					4.000				
	Total				I		4.000				
				Тс	otal Quantit	y in each	4.000				
8.027	17.34.1										
	Providing and fixi	ng toilet p	aper holder:	C.P. brass							
	Providing and fixi		aper holder:	C.P. brass							
		4.0000					4.000				
	Total						4.000				
				I	Total Quant	tity in no	4.000				
8.028	17.35.1.1										
	Providing and fixi 100 mm diaSand c				9						
		Providing and fixing soil, waste and vent pipes:100 mm diaSand cast iron S & pipe									
			30.000								
	Total										
			e-PLATFOR	Tot	al Quantity	in metre	30.000				
8.029	17.35.1.2	_	OF PUBLIC	WORKS							
	Providing and fixi 100 mm diaCentri 3989				spigot (S & S) pipe as	per IS :				
	Providing and fixi	ng soil, w	aste and ven	t pipes:100 n	nm dia						
		1.0000	30.000				30.000				
	Total				ł	•	30.000				
				Tot	al 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 hi grating without vent arm complete,										
	4.0000										
	Total										
	Total Quantity in each										
8.031	17.71										

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity					
	mm distance from	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 fixi	ng PTMT	liquid soap	container								
		4.0000					4.000					
	Total						4.000					
				Τα	otal Quantity	y 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 mase	Constructing masonry chamber										
		6.0000 0		211			6.000					
	Total		C-PLATEOR	MEOR THE M			6.000					
			OF PUBLIC	WORKS TO	otal Quantity	y 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 6.000 6.000 6.000											
	Total											
0.00				То	otal Quantity	y in each	6.000					
8.034	18.8.2											

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Providing and fixit stability for hot & fittings i/c fixing th pipes& fittings, wi making good the s Engineer-in-Charg wall etc.20 mm no	brass three ludes join of cutting direction	eaded ting of chases and of							
	Supplying, covey	fitting ,co	oncealed and	fixing 20 m	m CPVC					
		50.000 00					50.000			
	Total						50.000			
	Total Quantity in metre									
8.035	OD194224/2023-2									
	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 connection	,fitting an				alve with	branch			
		6.0000 0	OF PUBLIC	M FOR THE N WORKS	ANAGEMENT		6.000			
	Total						6.000			
					Total Quant	tity in no	6.000			
8.036	OD194225/2023-2	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									
	6.0000									
	Total									
				I	Total Quant	tity in no	6.000			
8.037	OD194226/2023-2	2024								

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Supplying, covey Chloride) <br&g necessary accessor Brass socket,<b< td=""><td>gt;pipes of ries, speci</td><td>f approved m als viz.</td><td>ake conform</td><td>ing to IS-15</td><td>778: 2007</td><td>. with all</td></b<></br&g 	gt;pipes of ries, speci	f approved m als viz.	ake conform	ing to IS-15	778: 2007	. with all				
	COUPLING ,END BUSHING,MALE THREADS),MAL	D CAP,RE E BRASS&	DUCER TE	EE,MALE A	DAPTOR (B						
	,REDUCING MA ADAPTOR (BRA	LE ADAI SS THRE	PTOR <br& EADS),REDU</br& 	>(BRASS UCING	THREADS)	,					
	BRASS COUPLIN UNION,COUPLIN union, cross, elbo,	NG,all typ	es of bends,	Brass tee,							
	piece ,Brass thread threaded tee ,Brass	led reduce s threaded	er,Brass elbow etc.&	zlt;br>fitte	C I	Ū.					
	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										
		1.0000 0					50.000				
	Total		OF PUBLIC	WORKS			50.000				
				Tot	al Quantity	in metre	50.000				
8.038	OD194227/2023-2	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<										
	8.0000 8.000										
	Total										
	Total Quantity in no										
8.039	OD194228/2023-2	2024									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Supplying, covey accessories <br& threaded elbow etc with all complete in all res all necessary<br< td=""><td>gt;conne of appro necessary pect inclu >fittir</td><td>cting Brass t ved make accessories, ding cost of ags as require</td><td>hreaded redu including cur ed,jointing m</td><td>cer,Brass thi tting pipes, f</td><td>eaded tee itting, fixi</td><td>,Brass ng etc.</td></br<></br& 	gt;conne of appro necessary pect inclu >fittir	cting Brass t ved make accessories, ding cost of ags as require	hreaded redu including cur ed,jointing m	cer,Brass thi tting pipes, f	eaded tee itting, fixi	,Brass ng etc.				
	connecting the ang etc as per the <b be made for access</b 	r>dire	ction of Depa		ïcers. (No se	eparate pa	yment will				
	Supplying, covey	fitting, a	nd fixing of	200 mm Stai	nless Steel sl	nower					
		4.0000					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<										
		1.0000	e-PLATFOR OF PUBLIC	M FOR THE N WORKS	ANAGEMENT		1.000				
	Total						1.000				
				,	Total Quant	tity in no	1.000				
8.041	OD194230/2023-2	2024									
	:Supplying, covey connection <br& required,jointing n per the direction& made for accessor</br& 	zgt;(heavy naterials i lt;br>c	y quality) inc n any position of Department	luding cost o on as	of all necessa	ry fittings	as				
	Supplying, covey connection<	and fixin,	g 40 mm G.N	M ball valve	with polythe	ne float fo	or 40 mm				
		1.0000					1.000				
	Total 1.000										
	Total Quantity in no 1.000										
8.042											
	Supplying, covey mm con required,jointing n as per th made for accessor	nection(h naterials i e directio	eavy quality n any positio n of Departn	including co	st of all nece	ssary fitti	ngs as				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Supplying, covey mm<	and fixing,	g 32 mm G.N	I. ball valve	with polythe	ene float fo	or 32	
		1.0000					1.000	
	Total						1.000	
				,	Total Quant	tity in no	1.000	
8.043	18.18.3							
	Providing and fixi plastic floats comp				uality, High	or low pre	essure, with	
	Supplying, covey	and fixing	g of 25 mm Q	G.M. ball val	ve			
		1.0000					1.000	
	Total		ļ				1.000	
				Та	tal Quantity	y in each	1.000	
8.044	18.18.2		6		-			
	Providing and fixi plastic floats comp				uality, High	or low pre	essure, with	
	20mm Ball valve	with float		210				
		1.0000		< ιι			1.000	
	Total		OF PUBLIC	M FOR THE M	ANAGEMENT		1.000	
			or room		tal Quantit	v in each	1.000	
8.045	OD194232/2023-2	2024			un Quunti	y in cucii	1.000	
	Supply and erection	on of conci	rete Septic ta	nk				
	Supply and erection	on of conci	rete Septic ta	nk				
		1.0000					1.000	
	Total	0					1.000	
				,	Total Quant	tity in no	1.000	
0	Mechanical and E	lectrical w	ork		Total Quali		1.000	
9.001			OIK					
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							
		1.0000					1.000	
	Total						1.000	
				Т	'otal Quanti	ty in L.S	1.000	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
10	Operation and Mai	intanance	charges							
10.00	OD194248/2023-2	2024								
1	Engaging Pump of	perator								
	Engaging Pump or	perator				Г				
		$2.0000 \\ 0$	540.000				1080.000			
	Total						1080.000			
				I	Total Quant	ity in no	1080.000			
10.00	OD194249/2023-2	2024								
2	Engaging Man ma	zdoor								
	Engaging Man ma	zdoor								
		$2.0000 \\ 0$	540.000				1080.000			
	Total		e.	200			1080.000			
			A.K	TAN -	Total Quant	ity in no	1080.000			
10.00	OD194250/2023-2	2024	rest to	Magazor -						
3	Engaging Gardener									
	Engaging Gardener									
		$\begin{array}{c} 0.5000\\ 0\end{array}$	540.000	M FOR THE N	ANAGEMENT		270.000			
	Total						270.000			
				I	Total Quant	ity in no	270.000			
10.00	OD194251/2023-2	2024								
4	Supply and deliver	ry of Alur	n							
	Supply and deliver	ry of Alur	n		I	r				
	For 18 months	1.0000 0	16.200				16.200			
	Total						16.200			
				Т	otal Quantit	y in MT	16.200			
10.00	OD194252/2023-2	2024								
5	Supply and deliver	ry of Lime	2.							
	Supply and deliver	ry of Lime	e.			Г				
	For 18 months	1.0000 0	12.800				12.800			
	Total						12.800			
				Т	otal Quantit	y in MT	12.800			
10.00	OD194253/2023-2	2024								
6	Supply and deliver	ry of Chlo	rine gas cyli	nder.						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Supply and delive	ry of Chlo	orine gas cyli	inder.						
		10.000 00					10.000			
	Total						10.000			
				,	Total Quant	ity in no	10.000			
11	INSTALLATION	OF FIRE	HYDRANT							
11.00	2.8.1									
1	Earth work in exca in foundation trend including dressing out the excavated of 50 m.All kinds	ches or dra of sides a soil and di	ains (not exco nd ramming	eeding 1.5 m of bottoms,	in width or lift up to 1.5	10 sqm or m, includ	n plan), ling getting			
	Fire hydrant	1 0000								
	Fire hydrant	1.0000 0	1.500	1.500	1.500		3.375			
	Total									
	Total Quantity in cum									
11.00	100.8.2									
2	coir yarn on vertic	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 vertic									
		1.0000 0	6.000				6.000			
	Total						6.000			
				Tot	al Quantity	in metre	6.000			
	2.16.1									
3	Close timbering in required) complete exceeding 1.5m									
	Close timbering (wherever required			strutting, sho	ring and pac	king cavit	ies			
		1.0000 0	6.000		1.500		9.000			
	Total						9.000			
	Total Quantity in sqm 9.00									
	7.1.1									
4	Random rubble ma up with cement co 20 mm nominal siz sand) RR Masonry	ncrete 1:6	:12 (1 cemer	nt : 6 coarse s	sand : 12 gra	ded stone	aggregate			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
		1.0000 0	1.000	1.000	0.600		0.600		
	Total						0.600		
	Total Quantity in cum								
11.00	6.3.1								
5	Brick work with c classdesignation 1 tofloor five level i modular) bricks	2.5 confo	rming to IS: 2	2222 in supe	rstructure ab	ove plinth	n level up		
	Brick work with	common	burnt clay m	achine					
		1.0000 0	2.800	0.120	0.600		0.202		
	Total						0.202		
				To	otal Quantit	y in cum	0.202		
11.00	2-0								
6	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 la	ying ceme	ent concrete	M FOR THE M WORKS	ANAGEMENT				
	Anchor block	2.0000	1.000	1.000	1.000		2.000		
	Total						2.000		
				Тс	otal Quantit	y in cum	2.000		
11.00	5.9.15								
7	Centering and shu not exceeding 1.5 bands, copings, be	m clear sp	oan, mouldin	g as in cornio	ces, window				
	Centering and sh		ncluding stru	tting, etc. an	d removal of	form			
		$2.0000 \\ 0$	4.000		1.000		8.000		
	Total						8.000		
				Te	otal Quantit	y in sqm	8.000		
11.00	100.12.9								
8	Conveying and fix refilling etc., but e diameter nominal	xcluding	vipes complet cost of pipes	e with G.I. fr and fittings	ittings includ for External	ling trencl work: 100	ning and)mm		
	Conveying and fi	xing G.I.	pipes						
		$\begin{array}{c} 1.0000\\ 0\end{array}$	3.000				3.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Total						3.000			
				Tot	al Quantity i	in metre	3.000			
11.00	100.31.1.2									
9	Conveying and fix insertions etc., con will be paid separa	nplete, bu	t excluding the	he cost of the	y providing be e valve (tail p	olts, nuts, pieces, if 1	rubber equired,			
	Conveying and fix	ing C.I. s	luice valves							
		$\begin{array}{c} 1.0000\\ 0\end{array}$					1.000			
	Total						1.000			
				,	Total Quant	ity in no	1.000			
11.01	13.1.1									
0	12 mm cement pla	ster of mi	x:1:4 (1 cem	nent : 4 fine s	sand)					
	12 mm cement pl	12 mm cement plaster mix								
	Fire hydrant brick box-inner	1.0000 0	2.200	24A	0.600		1.320			
	outer	1.0000	2.700		0.600		1.620			
		1.0000 0	2.700	0.120			0.324			
	Total		e-PLATFOR OF PUBLIC	M FOR THE M WORKS	ANAGEMENT		3.264			
				Te	otal Quantit	y in sqm	3.264			
11.01	100.98.458									
1	Supply of CI Doub Valve with Cap PM			ve Conformi	ng to IS 1484	46 - 2000	, Sluice			
	Supply of CI Doub	ole Flange	d Sluice Val	ve						
		1.0000 0					1.000			
	Total						1.000			
				,	Total Quant	ity in no	1.000			
11.01	OD204162/2023-2	2024								
2	Supplying and fixi	ng Pillar	Hydrant Unit							
	Supplying and fix	ing Pillar	Hydrant Uni	t						
		1.0000 0					1.000			
	Total									
	Total 1 Total Quantity in each 1									
11.01	OD204167/2023-2	2024								
3	Supply of 100 mm	GI pipe ((Medium)							
	Supplying and fix	ing Pillar	Hydrant Uni	t						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
		1.0000 0	3.000				3.000		
	Total						3.000		
		in metre	3.000						
12	Providing and sett	ing up La	boratory						
12.00	OD196836/2023-2	2024							
1	Setting up of Lab								
	Setting up of Lab								
		$1.0000 \\ 0$					1.000		
	Total		1.000						
		ty in job	1.000						
13	External yard Lighting								
13.00	242								
	Lighting Switch Board (LSB):- Design, engineering, supply, erection, testing and commissioning of medium voltage sheet steel clad, totally enclosed, dust tight & amp; 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								
		1.0000 0					1.000		
	Total						1.000		
				Τα	otal Quantity	y in each	1.000		
13.00	OD204352/2023-2								
2	Lighting Distribution board (LDB-I & amp;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, & amp;lt;br& amp;gt; With tinned copper busbars/cables, interconnection, housed in a suitable metal enclosure as per KEI standards fixed in open system								
	LDB 1 &2	2.0000							
		2.0000					2.000		
	Total						2.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
					Total Quant	ity in no	2.000			
13.00	OD194260/2023-2	2024								
3	Cabling : Supply, laying, tes sheathed armoured wall/ceiling with c 4 core 16 Sq.mm F	l Alumini lamps and	um conducto l saddle clips	or cable (110 s partly laid i	0/11000 Volt in cable tray/	ts grade) c	clamped on			
	Cabling									
	4 core 16 Sq.mm PVC/XLPE AL Cable (LSB to LDB)	150.00 000					150.000			
	Total									
	Total Quantity in set									
13.00	OD194261/2023-2024									
	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)	300.00 000	e-PLATFOR OF PUBLIC	M FOR THE N WORKS	ANAGEMENT		300.000			
	Total						300.000			
				Tot	al Quantity	in metre	300.000			
13.00	OD194262/2023-2	2024								
5	PVC/XLPE insula /11000volts grade)	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								
	4 core 16 Sq.mm		ind più							
	PVC/XLPE AL Cable	8.0000 0					8.000			
	Total									
	Total Quantity in set									
13.00 6	OD194276/2023-2	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 standards3 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	40.000 00					40.000		
	Total								
					Total Quant	tity in no	40.000		
13.00									
	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 enclosedSingle Bracket Type								
	External Lighting:								
	Single Bracket Type	15.000 00	OF PUBLIC	WORKS			15.000		
	Total						15.000		
	Total Quantity in no						15.000		
13.00	OD194278/2023-2024								
8	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	5.0000					5.000		
							5.000		
	Total Quantity in no						5.000		
13.00 9	OD194279/2023-2	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.							
		25.000 00					25.000	
	Total							
	Total Quantity in no 25.00							
13.01	OD194300/2023-2024							
0	External Lighting: Supplying and fixing light fittings over compount 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 compount wall allround the WTP yard with all accessories and 20 watts LED							
		20.000 00	a ski	5 AL			20.000	
	Total	00					20.000	
				7.16	Total Quant	ity in no	20.000	
13.01	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							
		1.0000					1.000	
	Total	0					1.000	
	Total Quantity in set						1.000	
14	Land Scaping, Gardening, Site levelling after construction							
	OD194304/2023-2024							
	Land Scaping, Gardening, Site levelling after construction							
	Land Scaping, Ga	dening, S	ite levelling	after constru	iction			
		1.0000					1.000	
	Total	0			1	<u> </u>	1.000	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Total Quantity in job 1.00							
	16.91.2							
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 & amp; size/ shape, made by table vibratory method using PU mould, laid in required colour & amp; 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							
		$1.0000 \\ 0$	420.000				420.000	
	Total							
	Total Quantity in sqm						420.000	
	50.2.25.1							
3	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							
		$\begin{array}{c} 1.0000\\ 0\end{array}$	175.000				175.000	
	Total						175.000	
	Total Quantity in cum						175.000	