

**ABSTRACT ESTIMATE**

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

SI No	Specification	Quantity	Rate	Amount
<b>1</b>	<b>Construction of Aerator</b>			
1.001	2.9.3 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)			
	Net Total	8.750cum	@1327.61/cum	11616.59
1.002	OD69995/2022-2023 :DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete			
	Net Total	8.000no	@424.58/no	3396.64
1.003	4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)			
	Net Total	1.875cum	@8859.30/cum	16611.19
1.004	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			
	Net Total	3.985cum	@9825.93/cum	39156.33
1.005	5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting			

SI No	Specification	Quantity	Rate	Amount	
	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				
		Net Total	5.139cum	@11550.42/cum	59357.61
1.006	5.34.1				
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).				
		Net Total	9.124cum	@85.68/cum	781.74
1.007	5.9.1				
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete				
		Net Total	10.416sqm	@350.00/sqm	3645.60
1.008	5.9.6				
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts				
		Net Total	13.062sqm	@901.45/sqm	11774.74
1.009	5.9.16.1				
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and wallsUnder 20 cm wide				
		Net Total	18.369metre	@212.86/metre	3910.03
1.010	5.9.2				
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.				
		Net Total	9.703sqm	@748.62/sqm	7263.86
1.011	5.9.3				
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform				
		Net Total	20.749sqm	@851.49/sqm	17667.57
1.012	5.22.6				
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more				
		Net Total	1094.880kilo gram	@102.61/kilogram	112345.64
1.013	13.1.1				
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)				
		Net Total	82.947sqm	@327.87/sqm	27195.83
1.014	13.43.1				

SI No	Specification	Quantity	Rate	Amount
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
		Net Total	82.947sqm @73.75/sqm	6117.34
1.015	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
		Net Total	82.947sqm @158.06/sqm	13110.60
1.016	22.23.2			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @ 1.10 kg per sqm.			
		Net Total	65.882sqm @458.80/sqm	30226.66
			<b>Heading Total(Rs)</b>	<b>364177.97</b>
<b>2</b>	<b>Raw water channel</b>			
2.001	2.9.3			
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)			
		Net Total	10.080cum @1327.61/cum	13382.31
2.002	OD70542/2022-2023			
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete			
		Net Total	28.000no @433.32/no	12132.96
2.003	4.1.2			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)			

SI No	Specification	Quantity	Rate	Amount
	Net Total	5.040cum	@8859.30/cum	44650.87
2.004	5.33.1			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level			
	Net Total	3.168cum	@9825.93/cum	31128.55
2.005	5.33.2			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level			
	Net Total	10.976cum	@11550.42/cum	126777.41
2.006	5.34.1			
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).			
	Net Total	14.333cum	@85.68/cum	1228.05
2.007	5.9.2			
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.			
	Net Total	42.400sqm	@748.62/sqm	31741.49
2.008	5.9.3			
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform			
	Net Total	47.700sqm	@851.49/sqm	40616.07
2.009	5.9.5			
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers			
	Net Total	23.850sqm	@678.27/sqm	16176.74
2.010	5.9.6			
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			

SI No	Specification	Quantity	Rate	Amount
	Net Total	158.760sqm	@901.45/sqm	143114.20
2.011	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	1558.000kilo gram	@102.61/kilogram	159866.38
2.012	13.1.1			
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)			
	Net Total	287.130sqm	@327.87/sqm	94141.31
2.013	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	598.923sqm	@73.75/sqm	44170.57
2.014	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
	Net Total	153.570sqm	@158.06/sqm	24273.27
2.015	22.23.1			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm			
	Net Total	15.900sqm	@595.25/sqm	9464.48
2.016	22.23.2			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the			

SI No	Specification	Quantity	Rate	Amount
	same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @ 1.10 kg per sqm.			
	Net Total	21.200sqm	@458.80/sqm	9726.56
2.017	10.26.3			
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. pipes			
	Net Total	570.000kg	@194.15/kg	110665.50
<b>Heading Total(Rs)</b>				913256.72
<b>3 Flash Mixer</b>				
3.001	2.9.3			
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Hard rock (blasting prohibited)			
	Net Total	7.159cum	@1327.61/cum	9504.36
3.002	OD71762/2022-2023			
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete			
	Net Total	20.000no	@433.32/no	8666.40
3.003	4.1.3			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)			
	Net Total	0.529cum	@8340.91/cum	4412.34
3.004	5.33.1			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level			

SI No	Specification	Quantity	Rate	Amount
	Net Total	1.955cum	@9825.93/cum	19209.69
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		
	Net Total	3.205cum	@11550.42/cum	37019.10
3.006	5.34.1	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).		
	Net Total	5.160cum	@85.68/cum	442.11
3.007	5.9.2	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.		
	Net Total	33.064sqm	@748.62/sqm	24752.37
3.008	5.9.3	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform		
	Net Total	6.374sqm	@851.49/sqm	5427.40
3.009	5.9.16.1	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide		
	Net Total	1.366metre	@212.86/metre	290.77
3.010	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more		
	Net Total	361.200kilogram	@102.61/kilogram	37062.73
3.011	13.1.1	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)		
	Net Total	18.793sqm	@327.87/sqm	6161.66
3.012	13.60.1	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work		

SI No	Specification	Quantity	Rate	Amount
	Net Total	8.164sqm	@158.06/sqm	1290.40
3.013	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer		
	Net Total	8.164sqm	@73.75/sqm	602.10
3.014	10.26.3	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.G.I. pipes		
	Net Total	250.000kg	@194.15/kg	48537.50
<b>Heading Total(Rs)</b>				203378.93
<b>4 Clariflocculator</b>				
4.001	2.9.3	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)		
	Net Total	259.328cum	@1327.61/cum	344286.45
4.002	OD77126/2022-2023	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2m long (1m in rock and 1m in concrete ) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout( 0.10kg/each) etc complete		
	Net Total	8.000no	@476.01/no	3808.08
4.003	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)		
	Net Total	24.932cum	@8340.91/cum	207955.57
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		



SI No	Specification	Quantity	Rate	Amount
	Net Total	43.768cum	@9825.93/cum	430061.30
4.005	5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level		
	Net Total	59.431cum	@11550.42/cum	686453.01
4.006	5.34.1	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).		
	Net Total	103.199cum	@85.68/cum	8842.09
4.007	5.9.2	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.		
	Net Total	874.865sqm	@748.62/sqm	654941.44
4.008	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more		
	Net Total	10319.900kilogram	@102.61/kilogram	1058924.94
4.009	13.1.1	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)		
	Net Total	870.144sqm	@327.87/sqm	285294.11
4.010	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer		
	Net Total	861.980sqm	@73.75/sqm	63571.03
4.011	13.83.2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile including applying additional coats wherever required to achieve even shade and colour. Two coats		
	Net Total	175.212sqm	@139.97/sqm	24524.42
4.012	10.26.3	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing,		

SI No	Specification	Quantity	Rate	Amount
	balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.G.I. pipes			
		Net Total	1500.000kg @194.15/kg	291225.00
4.013	100.98.121			
	Supply of DI K9 Pipe Conforming to IS 8329/2000, 400mm Dia.			
		Net Total	100.000metre @7068.65/metre	706865.00
4.014	100.14.7			
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 400mm diameter Ductile Iron Class K-9 Pipes.			
		Net Total	100.000metre @341.71/metre	34171.00
4.015	100.98.465			
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 400mm.			
		Net Total	2.000no @94877.13/no	189754.26
4.016	18.68.1			
	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia			
		Net Total	8.860quintal @21003.05/quintal	186087.02
4.017	18.70.7			
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:400 mm dia pipes			
		Net Total	24.000joint @711.22/joint	17069.28
4.018	18.83.9			
	Labour for cutting C.I. pipe with steel saw.400 mm diameter C.I. pipe			
		Net Total	6.000Each Cut @893.21/Each Cut	5359.26
4.019	100.31.1.9			
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 400mm diameter, Class I.			
		Net Total	2.000no @4776.85/no	9553.70
4.020	10.2			
	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.			
		Net Total	8730.000kg @125.04/kg	1091599.20
4.021	22.23.1			
	Providing and applying integral crystalline slurry of hydrophilic in nature for			

SI No	Specification	Quantity	Rate	Amount
	waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm			
	Net Total	786.896sqm	@595.25/sqm	468399.84
4.022	22.23.2			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @1.10 kg per sqm.			
	Net Total	5.087sqm	@458.80/sqm	2333.92
<b>Heading Total(Rs)</b>				6771079.92
<b>5 Filter House,back wash water tank</b>				
5.001	2.6.1			
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil			
	Net Total	91.238cum	@223.41/cum	20383.48
5.002	2.26.1			
	Extra for every additional lift 1.5 m or part there of in excavation / banking excavated or stacked materials.All kinds of soil			

SI No	Specification	Quantity	Rate	Amount
	Net Total	20.090cum	@111.04/cum	2230.79
5.003	OD72096/2022-2023			
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete			
	Net Total	110.000no	@433.32/no	47665.20
5.004	4.1.2			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)			
	Net Total	12.528cum	@8859.30/cum	110989.31
5.005	5.33.1			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level			
	Net Total	33.123cum	@9825.93/cum	325464.28
5.006	5.33.2			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level			
	Net Total	229.524cum	@11550.42/cum	2651098.60
5.007	5.34.1			
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).			
	Net Total	258.907cum	@85.68/cum	22183.15
5.008	22.23.1			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts			

SI No	Specification	Quantity	Rate	Amount
	integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm			
	Net Total	107.100sqm	@595.25/sqm	63751.28
5.009	22.23.2			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @1.10 kg per sqm.			
	Net Total	319.400sqm	@458.80/sqm	146540.72
5.010	5.9.1			
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	96.130sqm	@350.00/sqm	33645.50
5.011	5.9.6			
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			
	Net Total	245.160sqm	@901.45/sqm	220999.48
5.012	5.9.5			
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers			
	Net Total	352.564sqm	@678.27/sqm	239133.58
5.013	5.9.3			
	Centering and shuttering including strutting, etc. and removal of form for:Suspended			

SI No	Specification	Quantity	Rate	Amount
	floors, roofs, landings, balconies and access platform			
	Net Total	535.674sqm	@851.49/sqm	456121.05
5.014	5.9.7			
	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)			
	Net Total	33.853sqm	@764.63/sqm	25885.02
5.015	5.9.2			
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.			
	Net Total	700.420sqm	@748.62/sqm	524348.42
5.016	5.9.16.1			
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide			
	Net Total	263.340metre	@212.86/metre	56054.55
5.017	5.9.19			
	Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges			
	Net Total	172.320sqm	@942.09/sqm	162340.95
5.018	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	28991.230kilogram	@102.61/kilogram	2974790.11
5.019	50.6.1.2			
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.			
	Net Total	84.053cum	@6748.20/cum	567206.45
5.020	50.6.3.2			
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete			
	Net Total	4.645cum	@8012.86/cum	37219.73
5.021	4.1.8			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)			
	Net Total	30.108cum	@7113.43/cum	214171.15

SI No	Specification	Quantity	Rate	Amount
5.022	4.1.3			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)			
	Net Total	12.200cum	@8340.91/cum	101759.10
5.023	11.3.1			
	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate)finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.40 mm thick with 20 mm nominal size stone aggregate			
	Net Total	122.000sqm	@612.32/sqm	74703.04
5.024	13.16.1			
	6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)			
	Net Total	641.599sqm	@279.31/sqm	179205.02
5.025	13.1.1			
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)			
	Net Total	1998.155sqm	@327.87/sqm	655135.08
5.026	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	1889.185sqm	@73.75/sqm	139327.39
5.027	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
	Net Total	1889.185sqm	@158.06/sqm	298604.58
5.028	13.44.1			
	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)			
	Net Total	343.558sqm	@112.08/sqm	38505.98
5.029	10.6.1			
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.25 mm M.S. laths with 1.25 mm thick top cover			
	Net Total	12.000sqm	@3617.31/sqm	43407.72
5.030	9.120.1			
	Providing and fixing factory made panel PVC door shutter consisting of frame made			

SI No	Specification	Quantity	Rate	Amount
	out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC &#39;C&#39;; channel of size 30 mm thickness, 70 mm width out of whicj 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on th inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mmx2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the &#39;C&#39;; Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture&#39;s specification & drawing.30 mm thick plain PVC door shutters			
	Net Total	1.440sqm	@2977.51/sqm	4287.61
5.031	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 )			
	Net Total	110.664kg	@570.96/kg	63184.72
5.032	21.3.1			
	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness			
	Net Total	39.465sqm	@1228.18/sqm	48470.12
5.033	OD76925/2022-2023			
	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched			



SI No	Specification	Quantity	Rate	Amount
	between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.			
	Net Total	9.120sqm	@2600.72/sqm	23718.57
5.034	21.17			
	Providing and fixing anodised aluminium grill ( anodised transparent or dyed to required shade according to IS : 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P brass/stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge.(Only weight of grill to be measured for payment ).			
	Net Total	32.250kg	@638.75/kg	20599.69
5.035	11.36			
	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.			
	Net Total	114.865sqm	@1265.87/sqm	145404.16
5.036	11.37			
	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.			
	Net Total	319.976sqm	@1138.85/sqm	364404.67
5.037	16.89			

SI No	Specification	Quantity	Rate	Amount
	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi models location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.			
	Net Total	24.797sqm	@1554.00/sqm	38534.54
5.038	100.41.33			
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.			
	Net Total	4.000no	@7835.92/no	31343.68
5.039	OD79654/2022-2023			
	Supplying and providing water level indicator to the tank using scale fabricated out of 2mm thick MS plate with in the frame work of suitable size MS square tube, 160mm PVC pipe for guiding the float, necessary pullies, suitable nylon thread for connecting float and level indicator, painting the entire structure, lettering etc complete including all charges for material and labour for GL tank			
	Net Total	1.000no	@10453.50/no	10453.50
5.040	OD79731/2022-2023			
	Supplying and providing 100mm dia vent cowl including fitting charges etc.			
	Net Total	6.000no	@3484.50/no	20907.00
5.041	100.36.1			
	Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.			
	Net Total	150.000Kilo litre	@190.05/Kilo litre	28507.50
5.042	10.16.1			
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes			
	Net Total	423.000kg	@176.22/kg	74541.06
5.043	OD80675/2022-2023			
	Providing and fixing handrail of approved size by welding/ reviting etc., to steel ladder railing, balcony railing, staircases railing and similar works, including fittings and fixing charges. ALUMINIUM TUBE			
	Net Total	200.000kilogr am	@550.55/kilogra m	110110.00
			<b>Heading Total(Rs)</b>	11417337.5 3

SI No	Specification	Quantity	Rate	Amount
<b>6 Filter media</b>				
6.001	100.55.1	Supplying of 2 to 6 mm and 6 to 12 mm size fine pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5 km and labour charges for stacking, spreading, testing and as per the directions of the department officers etc. complete as per CPHEEO specifications.		
	Net Total	9.348cum	@8565.25/cum	80067.96
6.002	100.55.2	Supplying of 12 to 20mm size pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5km and labour charges for stacking, spreading, testing and as per the directions of the department officers etc complete and as per CPHEEO specification.		
	Net Total	9.348cum	@8565.25/cum	80067.96
6.003	100.55.3	Supplying of 20 to 40 mm pebble (pebbles shall be hard, clean, free from clay, dust and other impurities), stacking in standard heaps for measurement including cost, conveyance up to 5 km and labour charges for stacking, spreading, testing and as per directions of the department officers etc. complete and as per CPHEEO specification.		
	Net Total	4.674cum	@8565.25/cum	40033.98
6.004	100.55.4	Supplying and stacking for measurement of filter sand having effective size 0.45 to 0.70 mm and uniformity coefficient 1.30 to 1.7, of specific gravity in the range of 2.55 - 2.65 and hard and clean, free from clay, dust and other impurities including cost of materials, labour charges and conveyance of materials up to 5 km and as per the directions of the department officers etc. complete and as per CPHEEO specification.		
	Net Total	28.044cum	@10838.84/cum	303964.43
<b>Heading Total(Rs)</b>				<b>504134.33</b>
<b>7 General ground levelling, Road formation,demolishing</b>				
7.001	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared		
	Net Total	2400.000sqm	@15.40/sqm	36960.00
7.002	2.33.1	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 30 cm girth up to and including 60 cm girth		
	Net Total	10.000each	@467.62/each	4676.20
7.003	2.33.2			

SI No	Specification	Quantity	Rate	Amount
	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 60 cm girth up to and including 120 cm girth			
	Net Total	5.000each	@2081.82/each	10409.10
7.004	2.33.3			
	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 120 cm girth up to and including 240 cm girth			
	Net Total	6.000each	@9657.94/each	57947.64
7.005	16.91.2			
	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.			
	Net Total	165.000sqm	@1170.92/sqm	193201.80
7.006	15.2.1			
	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)			
	Net Total	268.317cum	@2134.74/cum	572787.03
7.007	15.9.1			
	Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in- Charges: In Lime Mortar			
	Net Total	1997.254cum	@1015.42/cum	2028051.66
<b>Heading Total(Rs)</b>				2904033.43
<b>8</b>	<b>Wash Water Arrangements to nearest safe drain/source after purification of wash water</b>			
8.001	100.1.1			
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.			
	Net Total	284.375cum	@579.88/cum	164903.38

SI No	Specification	Quantity	Rate	Amount
8.002	100.1.5			
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock.			
	Net Total	109.375cum	@842.08/cum	92102.50
8.003	100.1.13			
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Hard Rock where Blasting is Prohibited.			
	Net Total	21.875cum	@1624.47/cum	35535.28
8.004	100.2.2			
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10m <sup>2</sup> on plan), including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited.			
	Net Total	21.875cum	@1106.31/cum	24200.53
8.005	100.8.2			
	Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals.			
	Net Total	350.000metre	@99.34/metre	34769.00
8.006	15.2.1			
	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)			
	Net Total	4.800cum	@2134.74/cum	10246.75
8.007	18.72.5			
	Providing and laying S & S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329:300 mm dia Ductile Iron Class K-7 pipes			
	Net Total	350.000metre	@3873.61/metre	1355763.50
8.008	18.70.5			
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:300 mm dia pipe			
	Net Total	75.000joint	@430.66/joint	32299.50
8.009	18.83.7			
	Labour for cutting C.I. pipe with steel saw.300 mm diameter C.I. pipe			

SI No	Specification	Quantity	Rate	Amount
	Net Total	8.000Each Cut	@671.63/Each Cut	5373.04
8.010	18.68.1	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia		
	Net Total	4.410quintal	@21003.05/quintal	92623.45
8.011	100.35.5	Testing 300mm DI/CI pipeline with potable water to the required test pressure. 300 mm dia Observed Data derived from item no.1023 of PHED DATA		
	Net Total	350.000metre	@57.78/metre	20223.00
8.012	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)		
	Net Total	8.896cum	@8340.91/cum	74200.74
8.013	4.3.1	Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns		
	Net Total	20.480sqm	@350.00/sqm	7168.00
8.014	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more		
	Net Total	81.920kilogram	@102.61/kilogram	8405.81
<b>Heading Total(Rs)</b>				1957814.48
<b>9 MECHANICAL ITEMS</b>				
9.001	OD49435/2022-2023	Supply of 80mm GI pipe and specials		
	Net Total	50.000metre	@957.40/metre	47870.00
9.002	100.37.5.1	In situ fabrication of M.S. pipes of size 100mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.		
	Net Total	30.000metre	@4182.35/metre	125470.50
9.003	100.37.5.2	Fabricating M.S. flanges of diameter 100mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of		

SI No	Specification	Quantity	Rate	Amount
	painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.			
	Net Total	8.000no	@1161.73/no	9293.84
9.004	100.37.5.3			
	Cutting 100mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.			
	Net Total	8.000no	@119.81/no	958.48
9.005	100.37.5.4			
	Welding 100mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.			
	Net Total	8.000no	@452.90/no	3623.20
9.006	100.37.5.5			
	Grinding cut and weld edges of 100mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.			
	Net Total	16.000no	@85.07/no	1361.12
9.007	100.15.1			
	Conveying and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K-9 conforming to IS: 8329, excluding cost of pipe and specials: 100mm diameter Ductile Iron Double Flanged Pipes.			
	Net Total	30.000metre	@74.52/metre	2235.60
9.008	OD49477/2022-2023			
	Conveying and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work- Exposed on wall & 80 mm dia nominal bore			
	Net Total	50.000metre	@429.78/metre	21489.00
9.009	18.73.2			
	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :150 mm dia Ductile Iron Double Flanged			
	Net Total	36.000metre	@2824.44/metre	101679.84
9.010	18.73.5			
	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :300 mm dia Ductile Iron Double Flanged			
	Net Total	44.000metre	@6496.10/metre	285828.40
9.011	OD49583/2022-2023			
	Labour for cutting Ductile Iron pipe with steel saw.300 mm diameter Ductile Iron.			

SI No	Specification	Quantity	Rate	Amount
	pipe			
	Net Total	10.000no	@671.02/no	6710.20
9.012	OD49603/2022-2023			
	Labour for cutting Ductile Iron pipe with steel saw.150 mm diameter Ductile Iron pipe			
	Net Total	6.000no	@337.10/no	2022.60
9.013	18.30.1			
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:80 mm diameter pipe			
	Net Total	20.000no	@207.85/no	4157.00
9.014	18.30.2			
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:100 mm diameter pipe			
	Net Total	12.000no	@325.59/no	3907.08
9.015	18.30.4			
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe			
	Net Total	10.000no	@402.30/no	4023.00
9.016	18.30.7			
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:300 mm diameter pipe			
	Net Total	10.000no	@603.77/no	6037.70
9.017	18.68.1			
	Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia			
	Net Total	12.340quintal	@21003.05/quintal	259177.64
9.018	100.98.481			
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 80mm.			
	Net Total	2.000no	@6856.33/no	13712.66
9.019	100.98.484			
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 150mm.			
	Net Total	1.000no	@13852.05/no	13852.05
9.020	100.98.487			
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 300mm.			
	Net Total	8.000no	@44042.92/no	352343.36
9.021	100.31.2.1			



SI No	Specification	Quantity	Rate	Amount
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 80mm diameter, Class II.			
	Net Total	2.000no	@652.75/no	1305.50
9.022	100.31.2.4			
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class II.			
	Net Total	1.000no	@1340.06/no	1340.06
9.023	100.31.2.7			
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 300mm diameter, Class II.			
	Net Total	8.000no	@3085.78/no	24686.24
9.024	100.98.232			
	Supply of PVC Pipe, 10kg/cm <sup>2</sup> , 40mm Dia.			
	Net Total	150.000metre	@69.89/metre	10483.50
9.025	100.98.236			
	Supply of PVC Pipe, 10kg/cm <sup>2</sup> , 90mm Dia.			
	Net Total	40.000metre	@356.40/metre	14256.00
9.026	OD49677/2022-2023			
	Supply, laying, and commissioning of 90mm PVC pipe 10kg/cm <sup>2</sup> for lateral pipes in the filter bed by drilling holes at required angles preventign entry of filter media, and laying filter bed as per drawings. As per the direction of departmental officers.			
	Net Total	224.000metre	@482.01/metre	107970.24
9.027	100.9.4			
	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 40 mm nominal outside diameter pipes.			
	Net Total	130.000metre	@49.68/metre	6458.40
9.028	100.9.8			
	Laying uPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipeline to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipeline with water to the required test pressure (excluding cost of pipes and specials): 90 mm nominal outside diameter pipes.			
	Net Total	40.000metre	@90.86/metre	3634.40
9.029	OD49906/2022-2023			
	Supply, providing testing and commissioning of Flocculator scour arrangements with suitable			

SI No	Specification	Quantity	Rate	Amount
	operating mechanism 200mm (PN 1.6) or nearest size including gear system and spindles with suitable wheel specification with connecting specials as per the direction of departmental officers.			
	Net Total	1.000no	@77181.22/no	77181.22
9.030	OD49932/2022-2023 Supply, erection, testing and commissioning of flocculator unit agitator motor with reduction gear of best quality make brand new 2.5 HP or nearest suitable squirrel cage induction motor ( reduction gear box with suitable ratio ) , etc. complete as per the direction of departmental officers.			
	Net Total	1.000no	@83628.00/no	83628.00
9.031	OD49939/2022-2023 Supply, erection, testing and commissioning of clariflocculator unit suitable raking arm motor with reduction gear of best quality make brand new HP or nearest suitable squirrel cage induction motor ( reduction gear box with suitable ratio ) , etc. including panel board, starter, cable, capacitor, pipe connections, earthing and two year maintenance complete as per the direction of departmental officers.			
	Net Total	1.000no	@168417.50/no	168417.50
9.032	OD49980/2022-2023 Supply, providing testing and commissioning of Flash mixer gate valves -400 mm square type (PN 1.6) or nearest IS specification of IS-3042 including gear system and spindles with suitable specification for works in manually with connecting specials as per the direction of departmental officers.			
	Net Total	5.000no	@20907.00/no	104535.00
9.033	OD50077/2022-2023 Supply, erection, testing and commissioning of flash mixer unit agitator of best quality make brand new 2 HP or nearest suitable squirrel cage induction motor ( reduction gear box with suitable ratio ) , etc. including panel board, starter, cable, capacitor, pipe connections, earthing and two year maintenance complete as per the direction of departmental officers			
	Net Total	1.000no	@69690.00/no	69690.00
9.034	OD50135/2022-2023 Supply, providing testing and commissioning of Alum and lime solution out let valves- 80 mm GM with suitable specification for works in manually including specials			
	Net Total	8.000no	@11228.96/no	89831.68
9.035	OD50151/2022-2023 Supply, erection, testing and commissioning of Alum, lime agitator motor with reduction gear			

SI No	Specification	Quantity	Rate	Amount
	of best quality make brand new 1.5 HP or nearest suitable squirrel cage induction motor with suitable specification for works in manually, electrically ( reduction gear box with suitable ratio ) , etc. including panel board, starter, cable, capacitor, pipe connections, earthing and two year maintenance complete as per the direction of departmental officers.			
	Net Total	4.000no	@32196.78/no	128787.12
9.036	OD50787/2022-2023 Supply, and fixing of spindles and wheel for scour valves and back wash inlet.filter outlet, flow control ( 300 mm(PN 1.6) ) including gear system and spindles with suitable specification for works in manually with connecting specials			
	Net Total	10.000no	@1115.24/no	11152.40
9.037	OD50843/2022-2023 Supply, providing testing and commissioning of blower units for filter bed 0.7m <sup>3</sup> /min/sqm including NRV, sluice valves, starter, capacitor of required capacity and associated electrical works with connecting specials as per the direction of departmental officers.			
	Net Total	2.000no	@125655.37/no	251310.74
9.038	OD50852/2022-2023 Supply, providing testing and commissioning of inlet pump for back wash tank( 17.36lps and total head 10) suitable for the treatment plant works operating at 415V/50hz AC supply , 8 mm thick MS header pipe and suction pipe of suitable sizes, with connecting specials and including panel board, starter, cable, capacitor, pipe connections, foot valve, sluice valve, NRV earthing and two year maintenance as per the direction of departmental officers			
	Net Total	2.000no	@96883.04/no	193766.08
9.039	OD50857/2022-2023 Supply, providing testing and commissioning of chlorine tonner with all statutory approval .and filled from TCCL.			
	Net Total	2.000no	@104535.00/no	209070.00
9.040	OD50870/2022-2023 Supply, providing testing and commissioning of chlorinator unit with vaccum feed flow(Material Ragid pvc pipe, rod, sheet, copper, brass and extra heavy duty borosilicate glass) of capacity 50grams to 2000grams/hr specification for works in manually or electrically with connecting specials as per the direction of departmental officers			
	Net Total	2.000set	@52267.50/set	104535.00
9.041	OD50908/2022-2023 supply and providing Scraping piece in the raker arm .The high quality compressed rubberized(with compressed rubber piece as per IS/ISO specification including fixing piece ) piece with in the unit. as			

SI No	Specification	Quantity	Rate	Amount
	per the direction of departmental officers.			
	Net Total	12.000metre	@1045.35/metre	12544.20
	<b>Heading Total(Rs)</b>			2940336.55
<b>10</b>	<b>Electrification works</b>			
10.001	OD51033/2022-2023			
	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm&lt;br&gt;FRLS PVC&lt;br&gt;insulated copper conductor single core cable in surface I recessed PVC&lt;br&gt;conduit, with piano type switch, phenolic&lt;br&gt;laminated sheet, suitable size MS box and&lt;br&gt;earthing the point with 1.5 sq. mm FRLS PVC insulated copper&lt;br&gt;conductor single&lt;br&gt;core cable etc. as required.&lt;br&gt;Group B			
	Net Total	95.000no	@538.46/no	51153.70
10.002	OD51088/2022-2023			
	Wiring for circuit/ submain wiring alongwith earth wire with the&lt;br&gt;following sizes of FRLS PVC&lt;br&gt;insulated copper conductor, single&lt;br&gt;core cable in surface/ recessed medium class PVC conduit&lt;br&gt;as&lt;br&gt;required.&lt;br&gt;2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire			
	Net Total	60.000no	@142.22/no	8533.20
10.003	OD51111/2022-2023			
	Wiring for circuit/ submain wiring alongwith earth wire with the&lt;br&gt;following sizes of FRLS PVC&lt;br&gt;insulated copper conductor, single&lt;br&gt;core cable in surface/ recessed medium class PVC conduit&lt;br&gt;as&lt;br&gt;required.&lt;br&gt;2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire			
	Net Total	400.000metre	@251.68/metre	100672.00
10.004	OD51125/2022-2023			
	Supplying and fixing of following sizes of medium class PVC conduit along with&lt;br&gt;accessories&lt;br&gt;in surface/recess including cutting the wall and making good the same&lt;br&gt;in case of recessed conduit as&lt;br&gt;required.&lt;br&gt;20MM			
	Net Total	200.000metre	@126.55/metre	25310.00
10.005	OD51139/2022-2023			
	Wiring for circuit/ submain wiring alongwith earth wire with the&lt;br&gt;following sizes of FRLS PVC&lt;br&gt;insulated copper conductor, single&lt;br&gt;core cable in surface/ recessed medium class PVC conduit&lt;br&gt;as&lt;br&gt;required.&lt;br&gt;2 X 4 sq. mm + 1 X 4 sq. mm earth wire			
	Net Total	250.000metre	@301.33/metre	75332.50

SI No	Specification	Quantity	Rate	Amount	
10.006	OD51206/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire				
		Net Total	200.000metre	@258.91/metre	51782.00
10.007	OD51224/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 4 sq. mm + 2 X 4 sq. mm earth wire				
		Net Total	160.000metre	@342.25/metre	54760.00
10.008	OD51255/2022-2023 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 4 X 6 sq. mm + 2 X 6 sq. mm earth wire				
		Net Total	190.000metre	@496.39/metre	94314.10
10.009	OD51316/2022-2023 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.				
		Net Total	20.000no	@380.03/no	7600.60
10.010	OD51327/2022-2023 roviding and fixing fallowing rating and breking capacity MCCB with thermodynamic release and terminal spreders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel,making connections etc as required 150KA, 16KA				
		Net Total	1.000no	@5209.45/no	5209.45
10.011	OD51334/2022-2023 roviding and fixing fallowing rating and breking capacity MCCB with thermodynamic release and terminal spreders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel,making connections etc as required 125A, 16KA				
		Net Total	2.000no	@4605.89/no	9211.78
10.012	OD51345/2022-2023				

SI No	Specification	Quantity	Rate	Amount
	Providing and fixing following rating and breking capacity MCCB with thermodynamic release&lt;br&gt;and terminal spreders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel,making&lt;br&gt;connections etc as required&lt;br&gt;100A, 16KA			
		Net Total	4.000no @4140.45/no	16561.80
10.013	OD51351/2022-2023			
	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof&lt;br&gt;enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/&lt;br&gt;isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making&lt;br&gt;good the damages, colour washing etc. as required&lt;br&gt;12 way (8+36) - three phase double cover (IP 42/43)			
		Net Total	5.000no @10921.19/no	54605.95
10.014	OD51356/2022-2023			
	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside&lt;br&gt;the&lt;br&gt;existing panel board with ISI marked HRC fuses including drilling holes in cubicle&lt;br&gt;panel, making connections, etc.&lt;br&gt;as required.&lt;br&gt;200A TP&N			
		Net Total	1.000no @10118.88/no	10118.88
10.015	OD51358/2022-2023			
	Supply and installation of sheet steel, phosphatised and painted, dust and vermin&lt;br&gt;proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing&lt;br&gt;MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall ,&lt;br&gt;making good the damages, colour washing etc. as required&lt;br&gt;8 way (8+24) - three phase double cover (IP 42/43)			
		Net Total	6.000no @10244.43/no	61466.58
10.016	OD51361/2022-2023			
	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside&lt;br&gt;the&lt;br&gt;existing panel board with ISI marked HRC fuses including drilling holes in cubicle&lt;br&gt;panel, making connections, etc.&lt;br&gt;as required.&lt;br&gt;160A TP &N			
		Net Total	1.000no @8839.85/no	8839.85
10.017	OD51444/2022-2023			
	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside&lt;br&gt;the&lt;br&gt;existing panel board with ISI marked HRC fuses including drilling holes in cubicle&lt;br&gt;panel, making connections, etc.&lt;br&gt;as required.&lt;br&gt;100A TP&N			
		Net Total	2.000no @7969.13/no	15938.26
10.018	OD51484/2022-2023			

SI No	Specification	Quantity	Rate	Amount
	:Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel,making connections, etc. as required. 125A TP&N			
	Net Total	1.000no	@8858.11/no	8858.11
10.019	OD51523/2022-2023			
	:Supply, conveyance and fixing the following types & current rated control gears & switchgears conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required. 125A, 35/36 kA (Ics=100%Icu), 3 pole, current limiting type MCCB with microprocessor based release with overload setting of 50 - 100% having adjustable OL & SC			
	Net Total	1.000no	@12758.71/no	12758.71
10.020	OD51547/2022-2023			
	:Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &rdquo; curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole			
	Net Total	35.000no	@1092.32/no	38231.20
10.021	OD51567/2022-2023			
	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps			
	Net Total	4.000no	@1109.91/no	4439.64
10.022	OD51579/2022-2023			
	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps			
	Net Total	4.000no	@1109.91/no	4439.64
10.023	OD51619/2022-2023			
	Supply, conveyance and fixing the following types & current rated control gears & switchgears conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required. 16 A- 100A, 16 kA (Ics=100%Icu), 3 pole, current limiting type MCCB having thermal setting range of 80 - 100% with thermal magnetic release having adjustable OL			
	Net Total	1.000no	@3671.41/no	3671.41
10.024	OD51649/2022-2023			
	Wiring for circuit/ submain wiring alongwith earth wire with the following			

SI No	Specification	Quantity	Rate	Amount
	sizes of FRLS PVC&lt;br&gt;insulated copper conductor, single&lt;br&gt;core cable in surface/ recessed medium class PVC conduit&lt;br&gt;as&lt;br&gt;required.&lt;br&gt;4 X 16 sq. mm + 2 X 6 sq. mm earth wire			
	Net Total	195.000no	@1251.45/no	244032.75
10.025	OD51701/2022-2023 Supplying and fixing suitable size GI box with modular plate and cover in front on&lt;br&gt;surface or in&lt;br&gt;recess, including providing and fixing 3 pin 5/6 A modular socket outlet&lt;br&gt;and 5/6 A modular switch, connections&lt;br&gt;etc. as required.			
	Net Total	110.000no	@465.65/no	51221.50
10.026	OD51707/2022-2023 Supplying and fixing call bell/ buzzer suitable for single phase,&lt;br&gt;230 V, complete as required.			
	Net Total	3.000no	@105.82/no	317.46
10.027	OD51713/2022-2023 :Installation, testing and commissioning of pre-wired, fluorescent&lt;br&gt;fitting / compact fluorescent&lt;br&gt;fitting of all types, complete with all&lt;br&gt;accessories and tube/lamp etc. directly on ceiling/ wall,&lt;br&gt;including&lt;br&gt;connections with 1.5 sq. mm FRLS PVC insulated, copper&lt;br&gt;conductor, single core cable and&lt;br&gt;earthing etc. as required.			
	Net Total	76.000no	@194.45/no	14778.20
10.028	OD51725/2022-2023 :Installation, testing and commissioning of ceiling fan, including&lt;br&gt;wiring the down rods of&lt;br&gt;standard length (upto 30 cm) with 1.5&lt;br&gt;sq. mm FRLS PVC insulated, copper conductor, single core&lt;br&gt;cable etc.&lt;br&gt;as required.			
	Net Total	20.000no	@198.42/no	3968.40
10.029	OD51741/2022-2023 :Installation of exhaust fan in the existing opening, including&lt;br&gt;making good the damage,&lt;br&gt;connection, testing, commissioning&lt;br&gt;etc. as required.&lt;br&gt;510 mm sweep			
	Net Total	10.000no	@607.20/no	6072.00
10.030	OD51756/2022-2023 :Providing and fixing following rating and breaking capacity and&lt;br&gt;pole MCCB with&lt;br&gt;thermomagnetic release and terminal&lt;br&gt;spreaders in existing cubicle panel board including drilling			



SI No	Specification	Quantity	Rate	Amount
	holes in cubicle panel, making connections, etc. as required. 100 A, 30kA, FPMCCB			
	Net Total	1.000no	@9759.00/no	9759.00
10.031	OD51768/2022-2023 :Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth Actual rate = 2440.62/no For avoiding CPOH 16% = 2440.62* .84 = 2050.12/no bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 12 way double door =2Nos			
	Net Total	1.000no	@2381.21/no	2381.21
10.032	OD51802/2022-2023 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 8 way double door			
	Net Total	1.000no	@2041.22/no	2041.22
10.033	OD51834/2022-2023 :Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator) 8 way (4 + 24), Double door=3			
	Net Total	1.000no	@5336.45/no	5336.45
10.034	OD51846/2022-2023 :Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator) 6 way (4 + 18), Double door			
	Net Total	2.000no	@4283.53/no	8567.06
10.035	OD51871/2022-2023 :Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V,			

SI No	Specification	Quantity	Rate	Amount
	TPN MCB distribution board of sheet steel,&lt;br&gt;dust protected, duly powder painted, inclusive of 200 A, tinned&lt;br&gt;copper&lt;br&gt;bus bar, common neutral link, earth bar, din bar for&lt;br&gt;mounting MCBs (but without MCBs and incomer) as&lt;br&gt;required.&lt;br&gt;(Note : Vertical type MCB TPDB is normally used where 3 phase&lt;br&gt;outle4 way &lt;br&gt;8 way (4 + 24),&lt;br&gt;Double door=2&lt;br&gt;			
	Net Total	1.000no	@8982.48/no	8982.48
10.036	OD51875/2022-2023			
	:Supplying and fixing of following ways surface/ recess mounting,&lt;br&gt;vertical type, 415 V, TPN&lt;br&gt;MCB distribution board of sheet steel,&lt;br&gt;dust protected, duly powder painted, inclusive of 200 A, tinned&lt;br&gt;copper&lt;br&gt;bus bar, common neutral link, earth bar, din bar for&lt;br&gt;mounting MCBs (but without MCBs and incomer) as&lt;br&gt;required.&lt;br&gt;(Note : Vertical type MCB TPDB is normally used where 3 phase&lt;br&gt;outlets are required.)&lt;br&gt;4 way (4&lt;br&gt;+ 12), Double door			
	Net Total	1.000no	@6554.95/no	6554.95
10.037	OD51884/2022-2023			
	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &ldquo;&rdquo;&lt;br&gt;curve, miniature circuit breaker&lt;br&gt;suitable for inductive load of&lt;br&gt;following poles in the existing MCB DB complete with&lt;br&gt;connections, testing and&lt;br&gt;commissioning etc. as required.&lt;br&gt;Triple pole=24Nos			
	Net Total	6.000no	@957.78/no	5746.68
10.038	OD51889/2022-2023			
	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &ldquo;&rdquo;&lt;br&gt;curve, miniature circuit&lt;br&gt;breaker suitable for inductive load of&lt;br&gt;following poles in the existing MCB DB complete with&lt;br&gt;connections,&lt;br&gt;testing and commissioning etc. as required.&lt;br&gt;single pole			
	Net Total	50.000no	@263.25/no	13162.50
10.039	OD51897/2022-2023			
	:Supplying and fixing following rating, double pole, 240 V, isolator&lt;br&gt;in the existing MCB DB&lt;br&gt;complete with connections, testing and&lt;br&gt;commissioning etc. as required.&lt;br&gt;40A			
	Net Total	1.000no	@448.45/no	448.45
10.040	OD51916/2022-2023			
	Supplying and fixing following rating, double pole, (single phase&lt;br&gt;and neutral), 240 V, residual&lt;br&gt;current circuit breaker (RCCB),&lt;br&gt;having a sensitivity current 30 mA in the existing MCB DB&lt;br&gt;complete with&lt;br&gt;connections, testing and commissioning etc.			

SI No	Specification	Quantity	Rate	Amount
	as&lt;br&gt;required.&lt;br&gt;63A			
	Net Total	2.000no	@3062.50/no	6125.00
10.041	OD51919/2022-2023 :Supplying and fixing following rating, four pole, (three phase&lt;br&gt;and neutral), 415 V, residual&lt;br&gt;current circuit breaker (RCCB),&lt;br&gt;having a sensitivity current 30 mA in the existing MCB DB&lt;br&gt;complete with&lt;br&gt;connections, testing and commissioning etc. as&lt;br&gt;required.&lt;br&gt;63A			
	Net Total	2.000no	@3062.50/no	6125.00
10.042	OD51923/2022-2023 Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable of 1.1&lt;br&gt;kV grade of following size&lt;br&gt;direct in ground in the same trench in one tier horizontal formation&lt;br&gt;including&lt;br&gt;excavation, sand cushioning, protective covering and&lt;br&gt;refilling the trench etc. as required.&lt;br&gt;Above 35 sq. mm&lt;br&gt;and upto 95 sq. mm			
	Net Total	200.000no	@273.73/no	54746.00
10.043	OD51925/2022-2023 :Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable of 1.1&lt;br&gt;kV grade of following size&lt;br&gt;direct in ground in the same trench in one tier horizontal formation&lt;br&gt;including&lt;br&gt;excavation and refilling the trench etc. as required,&lt;br&gt;but excluding sand cushioning and protective&lt;br&gt;covering.&lt;br&gt;Up to 35 sq.mm=150metre			
	Net Total	50.000no	@256.63/no	12831.50
10.044	OD51927/2022-2023 :Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable of&lt;br&gt;1.1 kV grade of following size&lt;br&gt;direct in ground in the same trench in one tier horizontal formation&lt;br&gt;including&lt;br&gt;excavation and refilling the trench etc. as required,&lt;br&gt;but excluding sand cushioning and protective&lt;br&gt;covering.&lt;br&gt;Above 35 sq. mm and upto 95 sq. mm			
	Net Total	50.000no	@210.32/no	10516.00
10.045	OD51933/2022-2023 Erection of metallic pole of following length in&lt;br&gt;cement concrete&lt;br&gt;1:3:6 (1 cement : 3&lt;br&gt;coarse sand : 6 graded stone aggregate&lt;br&gt;40&lt;br&gt;mm nominal size) foundation including&lt;br&gt;excavation and refilling&lt;br&gt;etc. as&lt;br&gt;required.&lt;br&gt;Above 6.5 meter and upto 8.0&lt;br&gt;meter			
	Net Total	10.000no	@4470.50/no	44705.00

SI No	Specification	Quantity	Rate	Amount	
10.046	OD51977/2022-2023 Supplying and embedding following dia G.I. pipe (medium class)&lt;br&gt;in pole collar/ foundation&lt;br&gt;(during casting) for cable entry including&lt;br&gt;bending the pipe to the required shape complete as required.&lt;br&gt;32&lt;br&gt;mm dia				
		Net Total	10.000metre	@327.00/metre	3270.00
10.047	OD51978/2022-2023 Supply and providing imported vertical air terminal with 12 needdled nickel coated spike&lt;br&gt;receiver, supporting rod and stand icluding all accessories as required with possitive absorber(45 metre receiving&lt;br&gt;capacity), supply and laying required quantity of 25x3mm GI strip through eppoxy resin cast support, down conductor&lt;br&gt;through wall, vertical run/through parapet, supply and installation of test joint box fabricated out of 16 SWG CRCA&lt;br&gt;sheets, supply and laying required quantity of 32x6mm GI strip through ground including earth work excavation back&lt;br&gt;filling and jointing etc complete.				
		Net Total	1.000no	@56588.28/no	56588.28
10.048	OD51979/2022-2023 Supply and fitting 1200mm sweep ceiling fan&lt;br&gt;with all accessories as required				
		Net Total	20.000no	@1756.19/no	35123.80
10.049	OD51980/2022-2023 Supply and fitting exhaust fan with all&lt;br&gt;accessories as required(Heavy duty)				
		Net Total	10.000no	@2244.02/no	22440.20
10.050	OD51981/2022-2023 Supply and fitting 20 W LED Tube fittings&lt;br&gt;with all accessories as required				
		Net Total	76.000no	@487.83/no	37075.08
10.051	OD51982/2022-2023 Supply and laying 2x4 sq.mm alluminium UG&lt;br&gt;cable including excavation of trench and back&lt;br&gt;filling pit				
		Net Total	100.000metre	@88.78/metre	8878.00
10.052	OD51984/2022-2023 Supply and laying 3.5x35sq.mm PVC Al UG cable including excavation of trench and back filling&lt;br&gt;pit Supply and laying 3.5x35sq.mm PVC Al UG&lt;br&gt;cable including excavation of trench and back&lt;br&gt;filling pit				

SI No	Specification	Quantity	Rate	Amount
	Net Total	60.000metre	@380.51/metre	22830.60
10.053	OD51988/2022-2023 Supply conveyance ,installation testing and commissioning of36/40 W LED street/Yard light out put greater than105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumilled/Nichea with powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium preasure die cast powder coated housing acryliccover complete with THD less than 10% power factor greater than 0.98 ROHS compliant duly wired up for use on 230v AC supply.Driver compartment should be separately accessible for maintanance(LM 79&80 Certificate from NABL acredited third party lab produced mentioning chip manufacturer)			
	Net Total	20.000no	@4367.06/no	87341.20
10.054	OD51989/2022-2023 Supply and laying 4x16sq.mm alluminium UG cable including excavation of trench and back filling pit			
	Net Total	40.000metre	@234.16/metre	9366.40
10.055	OD51991/2022-2023 Supply and providing the following safety items approved by Kerala Electrical Inspectorate and relevant standards.11kv rubber mat=8set11kv rubber gloves=2 pair 11kv danger board=10Nos 9ltre capacity fire bucket=3NosFirst aid box=2Nos. shock treatment chart=4set 5kg fire estingusher=12 Nos			
	Net Total	1.000set	@102095.85/set	102095.85
<b>Heading Total(Rs)</b>				1627237.58
<b>11 Providing and setting up Laboratory</b>				
11.001	OD51992/2022-2023 Provision for setting physical quality testing Laboratory including chemicals,lab equipments,furniture etc such as Refrigerator 200 Ltrs, Jar test apparatus, PH meter, Turbidity meter (of approved manufacturer with relevant IS standards), class B glass wares(Borosil) such as Conical Flask 250 ml-5 Nos, Standard Flask 100 ml-5 Nos, Standard Flask 250 ml-5 Nos, Standard Flask 500 ml, RC test kit ,ET solution 1000ml, Ammonia-500ml, Armed Chair -6 Nos, 2 nos Office table with drawers on both ends, Ordinary Chairs(Thermoplastic)-4 Nos of approved makers , Steel Almarah with locker-1 No and coat of teak wood 1 No each .			
	Net Total	1.000L.S	@99889.00/L.S	99889.00
<b>Heading Total(Rs)</b>				99889.00
<b>12 Operation and Maintanance charges</b>				
12.001	OD52007/2022-2023 Operation and maintenance of WTP during guarantee period			

SI No	Specification	Quantity	Rate	Amount
	Net Total	360.000Day	@6204.30/Day	2233548.00
12.002	OD52009/2022-2023			
	Supply and delivery of Alum (or as per condition)			
	Net Total	18.000MT	@20254.70/MT	364584.60
12.003	OD52025/2022-2023			
	Supply and delivery of Hydrated lime as per specification at dosage(or as per condition)			
	Net Total	13.680MT	@12488.45/MT	170842.00
<b>Heading Total(Rs)</b>				2768974.60
<b>13</b>	<b>Water supply and Sanitary Arrangements</b>			
13.001	50.18.7.2.1			
	Providing and fixing PVC pipes, fittings including fixing the pipe with claps at 1.00 metre spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 20 mm dia 12Kgf/cm2 - Internal work - Exposed on wall			
	Net Total	50.000metre	@264.96/metre	13248.00
13.002	50.18.7.4.1			
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm2- Internal work - Exposed on wall			
	Net Total	50.000metre	@327.50/metre	16375.00
13.003	50.18.7.5.1			
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm2- Internal work- exposed on wall			
	Net Total	20.000metre	@420.38/metre	8407.60
13.004	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			
	Net Total	50.000metre	@424.81/metre	21240.50
13.005	50.18.8.1.2			
	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm2			
	Net Total	15.000metre	@404.42/metre	6066.30

SI No	Specification	Quantity	Rate	Amount
13.006	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			
	Net Total	2.000each	@128.42/each	256.84
13.007	50.17.1.1			
	Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.			
	Net Total	2.000no	@67.17/no	134.34
13.008	50.17.1.5			
	Supplying and fixing CP Health Faucet superior quality ( Jagur or equivalent make ) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.			
	Net Total	1.000no	@1280.93/no	1280.93
13.009	17.7.11			
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap			
	Net Total	1.000each	@5476.32/each	5476.32
13.010	17.2.1			
	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid			
	Net Total	1.000each	@6463.93/each	6463.93
13.011	OD79304/2022-2023			
	Supply, installation and commissioning of PVC septic tanks(10-15 flushes/day) and interconnection with man hole including cost of pipes specials, labour etc complete			
	Net Total	1.000no	@31177.83/no	31177.83
13.012	17.7.7			
	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap			
	Net Total	1.000each	@2698.18/each	2698.18
13.013	17.28.1.1			
	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia			
	Net Total	2.000each	@107.78/each	215.56

SI No	Specification	Quantity	Rate	Amount
13.014	17.28.1.2 Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 40 mm dia			
		Net Total	2.000each @120.94/each	241.88
13.015	17.28.2.1 Flexible pipe 32 mm dia			
		Net Total	2.000each @124.22/each	248.44
13.016	17.35.1.2 Providing and fixing soil, waste and vent pipes: 100 mm dia Centrifugally cast ( spun ) iron socket & spigot ( S & S ) pipe as per IS : 3989			
		Net Total	8.000metre @1341.97/metre	10735.76
13.017	17.60.1.1 Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Sand cast iron S & S as per IS : 3989			
		Net Total	2.000each @1858.40/each	3716.80
13.018	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			
		Net Total	1.000each @11412.30/each	11412.30
13.019	18.34.1 Constructing masonry chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 ( 1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix ( 1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 ( 1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design: With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
		Net Total	1.000each @19823.46/each	19823.46
13.020	OD52106/2022-2023 Supplying, covey ,fitting , and fixing of 200 mm Stainless Steel shower set with all			



SI No	Specification	Quantity	Rate	Amount
	accessories&lt;br&gt;connecting Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc of approved make with all&lt;br&gt;necessary accessories,including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary&lt;br&gt;fittings as required,jointing materials in any position for connecting the angle valve ,taps ,Shower, etc as per the&lt;br&gt;direction of Departmental officers. ( No separate payment will be made for accessories, specials.			
	Net Total	1.000no	@897.61/no	897.61
13.021	OD52111/2022-2023			
	Supplying, covey ,and fixing 40 mm G.M ball valve with polythene float for 40 mm connection&lt;br&gt;(heavy quality) including cost of all necessary fittings as required,jointing materials in any position as per the direction&lt;br&gt;of Departmental officers. No separate payment will be made for accessories, specials.			
	Net Total	1.000no	@810.40/no	810.40
13.022	OD52113/2022-2023			
	:Supplying, covey ,and fixing 32 mm G.M. ball valve with polythene float for 32 mm&lt;br&gt;connection(heavy quality including cost of all necessary fittings as required,jointing materials in any position as per&lt;br&gt;the direction of Departmental officers. No separate payment will be made for accessories, specials.			
	Net Total	1.000no	@622.23/no	622.23
13.023	OD52114/2022-2023			
	Supplying, covey ,and fixing of 25 mm G.M. ball valve with polythene float for 25 mm connection&lt;br&gt;(heavy quality) including cost of all necessary fittings as required,jointing materials in any position as per the direction&lt;br&gt;of Departmental officers. No separate payment will be made for accessories, specials.			
	Net Total	1.000no	@561.84/no	561.84
13.024	OD52117/2022-2023			
	Supplying, covey and fixing of G.M. ball valve with polythene float for 20 mm connection (heavy&lt;br&gt;quality) complete in all respect including cost of all necessary fittings as required,jointing materials in any position as&lt;br&gt;per the direction of Departmental officers. No separate payment will be made for accessories, specials.			
	Net Total	1.000no	@454.98/no	454.98
13.025	OD52104/2022-2023			
	Supplying, covey ,fitting , and fixing of 15 mm Stainless Steel tap set with all accessories&lt;br&gt;connecting Brass threaded reducer,Brass threaded tee ,Brass threaded elbow etc of approved make with all&lt;br&gt;necessary accessories,including cutting pipes, fitting, fixing etc. complete in all respect including cost of			

SI No	Specification	Quantity	Rate	Amount
	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.			
	Net Total	2.000no	@585.40/no	1170.80
13.026	OD52099/2022-2023			
	Supplying, covey ,fitting and fixing 15 mm chrome plated angle valve with branch connection of approved make (As per ASTM D 2467, Schedule 80). complete in all respect including cost of all necessary fittings as required, jointing materials in any position as per the direction of Departmental officers. No separate payment will be made for accessories, specials			
	Net Total	5.000no	@370.75/no	1853.75
<b>Heading Total(Rs)</b>				165591.58
<b>14 Sump cum Pump House</b>				
14.001	2.9.3			
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Hard rock (blasting prohibited)			
	Net Total	63.504cum	@1327.61/cum	84308.55
14.002	2.6.1			
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil			
	Net Total	109.321cum	@223.41/cum	24423.40
14.003	2.7.3			
	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. Hard rock (blasting prohibited)			
	Net Total	171.332cum	@1248.59/cum	213923.42
14.004	OD72905/2022-2023			
	DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2 m long (1m in rock and 1 m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete			
	Net Total	80.000no	@433.32/no	34665.60
14.005	4.1.2			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)			
	Net Total	38.549cum	@8859.30/cum	341517.16

SI No	Specification	Quantity	Rate	Amount
14.006	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			
	Net Total	10.337cum	@9825.93/cum	101570.64
14.007	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			
	Net Total	234.168cum	@11550.42/cum	2704738.75
14.008	5.34.1 Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).			
	Net Total	244.505cum	@85.68/cum	20949.19
14.009	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	61.200sqm	@350.00/sqm	21420.00
14.010	5.9.2 Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.			
	Net Total	282.700sqm	@748.62/sqm	211634.87
14.011	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform			
	Net Total	610.830sqm	@851.49/sqm	520115.64
14.012	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers			

SI No	Specification	Quantity	Rate	Amount
	Net Total	213.615sqm	@678.27/sqm	144888.65
14.013	5.9.6			
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			
	Net Total	193.200sqm	@901.45/sqm	174160.14
14.014	5.9.19			
	Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges			
	Net Total	92.400sqm	@942.09/sqm	87049.12
14.015	5.9.7			
	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)			
	Net Total	49.020sqm	@764.63/sqm	37482.16
14.016	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			
	Net Total	33920.600kilogram	@102.61/kilogram	3480592.77
14.017	50.6.1.2			
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.			
	Net Total	53.206cum	@6748.20/cum	359044.73
14.018	13.1.1			
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)			
	Net Total	1569.525sqm	@327.87/sqm	514600.16
14.019	13.16.1			
	6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)			
	Net Total	1230.660sqm	@279.31/sqm	343735.64
14.020	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	1389.385sqm	@73.75/sqm	102467.14
14.021	13.44.1			
	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)			
	Net Total	336.140sqm	@112.08/sqm	37674.57
14.022	13.60.1			

SI No	Specification	Quantity	Rate	Amount
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
		Net Total	1389.385sqm @158.06/sqm	219606.19
14.023	10.6.1			
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.25 mm M.S. laths with 1.25 mm thick top cover			
		Net Total	12.000sqm @3617.31/sqm	43407.72
14.024	21.1.1.3			
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing, paneling and dash fasteners to be paid for separately): For fixed portion Polyester powder coated aluminium ( minimum thickness of polyester powder coating 50 micron )			
		Net Total	90.480kg @570.96/kg	51660.46
14.025	21.3.1			
	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness			
		Net Total	32.480sqm @1228.18/sqm	39891.29
14.026	21.17			
	Providing and fixing anodised aluminium grill ( anodised transparent or dyed to required shade according to IS : 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P brass/stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge.(Only weight of grill to be measured for payment ).			
		Net Total	39.000kg @638.75/kg	24911.25
14.027	100.41.33			
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty)			

SI No	Specification	Quantity	Rate	Amount
	charges including all cost, labour charges etc., complete.			
	Net Total	6.000no	@7835.92/no	47015.52
14.028	13.71			
	Lettering with black Japan pint of approved brand and manufacture			
	Net Total	500.000per Letter per cm height	@5.82/per Letter per cm height	2910.00
	<b>Heading Total(Rs)</b>			9990364.73
	<b>Total Estimation PAC</b>			42627607.35
<b>16</b>	<b>Extra Charges</b>			
15.001	Provision for GST			
		42627607.35	18.00%	7672969.32
	<b>Grand Total</b>			0.00
	<b>Round off</b>			0.00
	<b>Rounded Total(Rs)</b>			50300576.67
	Rupees Five Crore Three Lakh Five Hundred and Seventy Six			

