

### ABSTRACT ESTIMATE

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

SI No	Specification	Quantity	Rate	Amount
<b>1</b>	<b>Part I-Aerator</b>			
1.001	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil			
	Net Total	2.400cum	@223.41/cum	536.18
1.002	2.7.1 Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Ordinary rock			
	Net Total	1.440cum	@433.04/cum	623.58
1.003	2.7.3 Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Hard rock (blasting prohibited)			
	Net Total	0.960cum	@1248.59/cum	1198.65
1.004	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)			
	Net Total	2.485cum	@7690.32/cum	19110.45
1.005	5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level			
	Net Total	2.305cum	@9825.93/cum	22648.77
1.006	5.33.2 Providing and laying in position machine batched and machine mixed design mix M-			

SI No	Specification	Quantity	Rate	Amount	
	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	7.150cum	@11550.42/cum	82585.50
1.007	5.34.1				
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).				
		Net Total	9.455cum	@85.68/cum	810.10
1.008	5.9.1				
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete				
		Net Total	10.286sqm	@350.00/sqm	3600.10
1.009	5.9.2				
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.				
		Net Total	3.448sqm	@748.62/sqm	2581.24
1.010	5.9.6				
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts				
		Net Total	5.275sqm	@901.45/sqm	4755.15
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	41.260sqm	@851.49/sqm	35132.48
1.012	5.9.16.1				
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and wallsUnder 20 cm wide				
		Net Total	43.332metre	@212.86/metre	9223.65
1.013	13.7.1				
	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 ( 1 cement : 3 fine sand)				
		Net Total	106.109sqm	@418.80/sqm	44438.45
1.014	22.23.1				
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement,				

SI No	Specification	Quantity	Rate	Amount
	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	5.550sqm	@595.25/sqm	3303.64
1.015	22.23.2			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @1.10 kg per sqm.			
	Net Total	41.260sqm	@458.80/sqm	18930.09
1.016	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	59.300sqm	@73.75/sqm	4373.38
1.017	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
	Net Total	59.300sqm	@158.06/sqm	9372.96
1.018	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	1134.600kilo	@102.61/kilogra	116421.31

SI No	Specification	Quantity	Rate	Amount
		gram	m	
1.019	OD228536/2022-2023 DOWEL BARS - Supplying and Providing MS dowel bars of size 25 mm dia of 2.0m long (1m in rock and 1m in concrete ) including drilling holes of 30mm dia and filling the gap with cement grout (0.50kg/each) etc.			
	Net Total	15.000no	@901.25/no	13518.75
<b>Heading Total(Rs)</b>				393164.43
<b>2 Part II-Raw water channel</b>				
2.001	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared			
	Net Total	9.600sqm	@15.40/sqm	147.84
2.002	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil			
	Net Total	0.108cum	@223.41/cum	24.13
2.003	2.7.1 Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Ordinary rock			
	Net Total	0.065cum	@433.04/cum	28.15
2.004	2.9.3 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)			
	Net Total	0.043cum	@1327.61/cum	57.09
2.005	OD175984/2022-2023 Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.			
	Net Total	3.000no	@201.33/no	603.99
2.006	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)			

SI No	Specification	Quantity	Rate	Amount
	Net Total	0.985cum	@8340.91/cum	8215.80
2.007	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	6.581cum	@11550.42/cum	76013.31
2.008	5.34.1	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).		
	Net Total	6.581cum	@85.68/cum	563.86
2.009	5.9.1	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete		
	Net Total	0.900sqm	@350.00/sqm	315.00
2.010	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	31.200sqm	@748.62/sqm	23356.94
2.011	5.9.3	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform		
	Net Total	14.400sqm	@851.49/sqm	12261.46
2.012	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more		
	Net Total	658.100kilogram	@102.61/kilogram	67527.64
2.013	13.7.1	12 mm cement plaster finished with a floating coat of neat cement of mix: 1:3 ( 1 cement : 3 fine sand)		
	Net Total	55.200sqm	@418.80/sqm	23117.76
2.014	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	13.200sqm	@595.25/sqm	7857.30
2.015	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	4.800sqm	@458.80/sqm	2202.24
2.016	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	22.140sqm	@73.75/sqm	1632.83
2.017	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
	Net Total	22.140sqm	@158.06/sqm	3499.45
			<b>Heading Total(Rs)</b>	227424.79
<b>3</b>	<b>Part III-Flash Mixer</b>			
3.001	2.9.3			

SI No	Specification	Quantity	Rate	Amount
	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	3.533cum	@1327.61/cum	4690.45
3.002	OD175989/2022-2023			
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.			
	Net Total	9.000no	@201.33/no	1811.97
3.003	4.1.5			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)			
	Net Total	0.694cum	@7690.32/cum	5337.08
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			
	Net Total	2.412cum	@9825.93/cum	23700.14
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	3.178cum	@11550.42/cum	36707.23
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	5.590cum	@85.68/cum	478.95
3.007	5.22.6			

SI No	Specification	Quantity	Rate	Amount
	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	670.800 kilogr am	@102.61/kilogra m	68830.79
3.008	5.9.1			
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	3.517sqm	@350.00/sqm	1230.95
3.009	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	31.777sqm	@748.62/sqm	23788.90
3.010	13.1.1			
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)			
	Net Total	36.173sqm	@327.87/sqm	11860.04
3.011	22.23.1			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @0.70 kg per sqm			
	Net Total	17.458sqm	@595.25/sqm	10391.87
3.012	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			



SI No	Specification	Quantity	Rate	Amount
	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	3.014sqm @458.80/sqm	1382.82
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	17.333sqm @73.75/sqm	1278.31
3.014	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
		Net Total	17.333sqm @158.06/sqm	2739.65
<b>Heading Total(Rs)</b>				194229.15
<b>4 Part IV-Clarrifloccular</b>				
4.001	2.32			
	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.			
		Net Total	379.940sqm @7.85/sqm	2982.53
4.002	2.6.1			
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil			
		Net Total	511.097cum @223.41/cum	114184.18
4.003	2.7.1			
	Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Ordinary rock			
		Net Total	48.498cum @433.04/cum	21001.57
4.004	OD270968/2022-2023			
	Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift from 1.5 m to 3m., disposed earth to be levelled and neatly dressed.Ordinary rock			
		Net Total	302.181cum @632.20/cum	191038.83
4.005	OD271073/2022-2023			
	Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan)			

SI No	Specification	Quantity	Rate	Amount
	including disposal of excavated earth, lead up to 50 m and lift from 1.5 m to 3m., disposed earth to be levelled and neatly dressed.Hard rock (blasting prohibited)			
	Net Total	208.811cum	@1447.75/cum	302306.13
4.006	OD271287/2022-2023			
	Earth work in excavation by mechanical means (Hydraulic excavator )/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift from 1.5 m to 3m., disposed earth to be levelled and neatly dressed.Hard rock (blasting prohibited)			
	Net Total	11.614cum	@1646.90/cum	19127.10
4.007	OD175992/2022-2023			
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.			
	Net Total	280.000no	@201.33/no	56372.40
4.008	4.1.5			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)			
	Net Total	56.613cum	@7690.32/cum	435372.09
4.009	5.33.1			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level			
	Net Total	156.636cum	@9825.93/cum	1539094.37
4.010	5.33.2			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level			
	Net Total	134.919cum	@11550.42/cum	1558371.12
4.011	5.34.1			
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered			

SI No	Specification	Quantity	Rate	Amount
	in M-30 is @ 340 kg/cum).			
	Net Total	291.555cum	@85.68/cum	24980.43
4.012	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	34986.600kilogram	@102.61/kilogram	3589975.03
4.013	4.3.1			
	Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns			
	Net Total	292.973sqm	@350.00/sqm	102540.55
4.014	5.9.2			
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.			
	Net Total	636.541sqm	@748.62/sqm	476527.32
4.015	5.9.3			
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform			
	Net Total	274.152sqm	@851.49/sqm	233437.69
4.016	5.9.5			
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers			
	Net Total	34.854sqm	@678.27/sqm	23640.42
4.017	5.9.6			
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			
	Net Total	14.130sqm	@901.45/sqm	12737.49
4.018	13.7.1			
	12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 ( 1 cement : 3 fine sand)			
	Net Total	1711.766sqm	@418.80/sqm	716887.60
4.019	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	390.980sqm	@73.75/sqm	28834.78
4.020	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	518.069sqm @595.25/sqm	308380.57
4.021	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	446.099sqm @458.80/sqm	204670.22
4.022	10.16.1			
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes			
		Net Total	769.000kg @176.22/kg	135513.18
4.023	10.26.3			
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.G.I. pipes			
		Net Total	233.000kg @194.15/kg	45236.95
4.024	100.36.1			
	Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.			

SI No	Specification	Quantity	Rate	Amount
	Net Total	1946.800Kilo litre	@ 190.05/Kilo litre	369989.34
	<b>Heading Total(Rs)</b>			10513201.8 9
<b>5</b>	<b>Part V- Filter House,lobby,chemical house,chlorine room,solution room,private room and Back wash water tank</b>			
5.001	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared		
	Net Total	323.000sqm	@ 15.40/sqm	4974.20
5.002	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil		
	Net Total	62.712cum	@223.41/cum	14010.49
5.003	2.7.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Ordinary rock		
	Net Total	37.627cum	@433.04/cum	16294.00
5.004	2.9.3	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)		
	Net Total	25.085cum	@1327.61/cum	33303.10
5.005	OD175994/2022-2023	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.		
	Net Total	186.000no	@201.33/no	37447.38
5.006	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)		
	Net Total	8.655cum	@8340.91/cum	72190.58
5.007	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited		

SI No	Specification	Quantity	Rate	Amount
	layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.			
	Net Total	159.574cum	@269.88/cum	43065.83
5.008	5.33.1			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level			
	Net Total	64.396cum	@9825.93/cum	632750.59
5.009	5.33.2			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level			
	Net Total	299.854cum	@11550.42/cum	3463439.64
5.010	5.34.1			
	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).			
	Net Total	364.250cum	@85.68/cum	31208.94
5.011	5.9.1			
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	152.520sqm	@350.00/sqm	53382.00
5.012	5.9.2			
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.			
	Net Total	1298.820sqm	@748.62/sqm	972322.63
5.013	5.9.3			
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform			
	Net Total	616.810sqm	@851.49/sqm	525207.55
5.014	5.9.5			

SI No	Specification	Quantity	Rate	Amount
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers			
	Net Total	386.338sqm	@678.27/sqm	262041.48
5.015	5.9.6			
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			
	Net Total	351.960sqm	@901.45/sqm	317274.34
5.016	5.9.7			
	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)			
	Net Total	10.775sqm	@764.63/sqm	8238.89
5.017	5.9.16.1			
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide			
	Net Total	276.600metre	@212.86/metre	58877.08
5.018	5.9.19			
	Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges			
	Net Total	71.820sqm	@942.09/sqm	67660.90
5.019	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	43710.000kilogram	@102.61/kilogram	4485083.10
5.020	4.1.8			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)			
	Net Total	12.357cum	@7113.43/cum	87900.65
5.021	11.3.1			
	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate			
	Net Total	96.550sqm	@612.32/sqm	59119.50
5.022	50.6.1.2			
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.			

SI No	Specification	Quantity	Rate	Amount
	Net Total	75.088cum	@6748.20/cum	506708.84
5.023	50.6.3.2			
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size conforming 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	11.200cum	@8012.86/cum	89744.03
5.024	13.1.1			
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)			
	Net Total	2429.972sqm	@327.87/sqm	796714.92
5.025	13.16.1			
	6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)			
	Net Total	271.310sqm	@279.31/sqm	75779.60
5.026	22.23.1			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm			
	Net Total	133.980sqm	@595.25/sqm	79751.60
5.027	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			



SI No	Specification	Quantity	Rate	Amount
	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	132.680sqm @458.80/sqm	60873.58
5.028	21.1.1.3 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, 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	109.620kg @570.96/kg	62588.64
5.029	21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness			
		Net Total	43.481sqm @1228.18/sqm	53402.49
5.030	OD175753/2022-2023 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 between two Alumini um sheets (each0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500based 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			

SI No	Specification	Quantity	Rate	Amount
	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	7.500sqm	@2549.49/sqm	19121.18
5.031	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	43.990kg	@638.75/kg	28098.61
5.032	10.15.2			
	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular /L-Type sections, made of 1.60 mm thick M.S. Sheet,joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.Fixing with carbon steel galvanised dash fastener of required dia and size ( to be paid for separately)			
	Net Total	100.000kg	@154.18/kg	15418.00
5.033	9.120.1			
	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of 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 which75 mm shall be tapered in 45 degree on th inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mmx2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture's specification & drawing.30 mm thick plain PVC door shutters			
	Net Total	1.785sqm	@2977.51/sqm	5314.86
5.034	10.6.1			

SI No	Specification	Quantity	Rate	Amount
	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	21.000sqm	@3617.31/sqm	75963.51
5.035	11.41.3			
	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 800x 800 mm			
	Net Total	69.140sqm	@2160.88/sqm	149403.24
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	334.860sqm	@1138.85/sqm	381355.31
5.037	11.36			
	Providing and fixing I st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.			
	Net Total	332.880sqm	@1265.87/sqm	421382.81
5.038	11.19.3			
	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 coarse sand):Dark shade pigment using ordinary cement			
	Net Total	21.350sqm	@1436.42/sqm	30667.57
5.039	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	2163.312sqm	@73.75/sqm	159544.26
5.040	13.60.1			
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work			

SI No	Specification	Quantity	Rate	Amount
	Net Total	2163.312sqm	@158.06/sqm	341933.09
5.041	100.41.33			
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.			
	Net Total	5.000no	@7835.92/no	39179.60
5.042	13.71			
	Lettering with black Japan pint of approved brand and manufacture			
	Net Total	378.000per Letter per cm height	@5.82/per Letter per cm height	2199.96
5.043	13.61.1			
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
	Net Total	24.500sqm	@149.31/sqm	3658.10
5.044	OD175662/2022-2023			
	Supply and spreading of filter media sand conforming to the latest CPHEEO manual.			
	Net Total	25.200cum	@9885.11/cum	249104.77
5.045	OD175670/2022-2023			
	Supply of Anthracite as per design in quantity required as per design, properly graded and tested by supplier specific the source of material and quality commensurate to the following specifications: SP gravity - 1.45 - 1.55, Uniformity Coefficient - 1.5, Bulk density - 0.73 - 0.75T/cum, Hardness - 3MOH, Handgrove -44-50, Carbon cont>90%, Ash - 3-4%, Volatile - 5-7%, Solubility - 1.5% in 10% HCl/ 10%NaOH for 24 Hrs certification including all cost, taxes, conveyance to site, loading and unloading etc. complete			
	Net Total	63.000cum	@55000.00/cum	3465000.00
5.046	OD175730/2022-2023			
	Supply and spreading of pebbles 2mm to 6 mm /6 mm to 12 mm for rapid sand filter as per latest CPHEEO manual.			
	Net Total	25.200cum	@7611.53/cum	191810.56
5.047	100.36.1			
	Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.			
	Net Total	384.772Kilo litre	@190.05/Kilo litre	73125.92
5.048	OD175833/2022-2023			
	Supplying and fixing electromagnetic flow meter conforming to protection level IP - 68 for flow sensor and IP - 67 for transmitter and having an accuracy level of 0.5% with LED/LCD display unit suitable to measure the discharge of CW. The flow meter should have the housing (flow sensor) to be made of SS 304/ Carbon steel with anti-			

SI No	Specification	Quantity	Rate	Amount
	corrosice protection and inside liner to be made up of Hard Rubber/Neoprene all confirming to drinking water standards.The flow meter should be coupled with HART for data acquisition and transfer with provision for wireless transfer through GSM.The manufacturers should have the calibration standards as per ISO 17025 and the product shall have sufficient warrantee position. Flow meter should be tested and calibrated at FCRI, Palakkad and test certificate should be produced.Flow meter should be calibrated with physical measurement at site after installation. A battery back of min 24 hrs should be provided. For 600m Flow meter.			
	Net Total	1.000no	@456469.50/no	456469.50
5.049	10.16.1			
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes			
	Net Total	510.000kg	@176.22/kg	89872.20
5.050	10.26.3			
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer.G.I. pipes			
	Net Total	298.000kg	@194.15/kg	57856.70
5.051	OD175838/2022-2023			
	Providing and fixing handrail of approved size by welding/reviting etc.to steel ladder railing,balcony railing,staircases railing and similar works,including fittings and fixing charges.ALUMINIUM TUBE			
	Net Total	528.000kg	@580.75/kg	306636.00
5.052	OD175850/2022-2023			
	Supplying and providing 100mm dia vent cowl including fitting charges etc.			
	Net Total	8.000no	@2486.69/no	19893.52
5.053	OD175916/2022-2023			
	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
	<b>Heading Total(Rs)</b>			19564819.34
<b>6 Part VI- Clear Water Sump,Pump House and Panel Room</b>				
6.001	2.9.3			
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed,			

SI No	Specification	Quantity	Rate	Amount
	within a lead of 50 m.Hard rock (blasting prohibited)			
	Net Total	34.560cum	@1327.61/cum	45882.20
6.002	OD175928/2022-2023			
	Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.			
	Net Total	80.000no	@201.33/no	16106.40
6.003	4.1.2			
	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)			
	Net Total	2.880cum	@8859.30/cum	25514.78
6.004	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	12.560cum	@9825.93/cum	123413.68
6.005	5.33.2			
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level			
	Net Total	178.379cum	@11550.42/cum	2060352.37
6.006	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	190.939cum	@85.68/cum	16359.65
6.007	5.9.1			
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	60.800sqm	@350.00/sqm	21280.00

SI No	Specification	Quantity	Rate	Amount
6.008	5.9.2			
	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.			
	Net Total	289.980sqm	@748.62/sqm	217084.83
6.009	5.9.3			
	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform			
	Net Total	289.680sqm	@851.49/sqm	246659.62
6.010	5.9.5			
	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers			
	Net Total	112.920sqm	@678.27/sqm	76590.25
6.011	5.9.6			
	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts			
	Net Total	144.000sqm	@901.45/sqm	129808.80
6.012	5.9.16.1			
	Centering and shuttering including strutting, etc. and removal of form for: Edges of slabs and breaks in floors and walls Under 20 cm wide			
	Net Total	98.000metre	@212.86/metre	20860.28
6.013	5.9.19			
	Centering and shuttering including strutting, etc. and removal of form for:Weather shade, Chajjas, corbels etc., including edges			
	Net Total	28.800sqm	@942.09/sqm	27132.19
6.014	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	22912.680kilogram	@102.61/kilogram	2351070.09
6.015	11.3.1			
	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate)finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.40 mm thick with 20 mm nominal size stone aggregate			
	Net Total	128.250sqm	@612.32/sqm	78530.04
6.016	50.6.1.2			
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.			

SI No	Specification	Quantity	Rate	Amount
	Net Total	16.980cum	@6748.20/cum	114584.44
6.017	50.6.3.1			
	Solid block masonry using pre cast solid blocks ( Factory made) of size 40x20x10cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth for 10 cm thick wall in CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding etc complete			
	Net Total	1.956cum	@7177.17/cum	14038.54
6.018	22.23.1			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, 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	159.600sqm	@595.25/sqm	95001.90
6.019	22.23.2			
	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @ 1.10 kg per sqm.			
	Net Total	128.250sqm	@458.80/sqm	58841.10
6.020	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			



SI No	Specification	Quantity	Rate	Amount
	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	41.760kg @570.96/kg	23843.29
6.021	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	24.360sqm @1228.18/sqm	29918.46
6.022	21.17			
	Providing and fixing anodised aluminium grill ( anodised transparent or dyed to required shade according to IS : 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P brass/stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge.(Only weight of grill to be measured for payment ).			
		Net Total	27.000kg @638.75/kg	17246.25
6.023	10.15.2			
	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular /L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with carbon steel galvanised dash fastener of required dia and size ( to be paid for separately)			
		Net Total	100.000kg @154.18/kg	15418.00
6.024	10.6.1			
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover			
		Net Total	13.613sqm @3617.31/sqm	49242.44
6.025	13.1.1			

SI No	Specification	Quantity	Rate	Amount
	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)			
	Net Total	1307.970sqm	@327.87/sqm	428844.12
6.026	13.43.1			
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer			
	Net Total	915.080sqm	@73.75/sqm	67487.15
6.027	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	915.080sqm	@158.06/sqm	144637.54
6.028	10.16.1			
	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes			
	Net Total	578.000kg	@176.22/kg	101855.16
6.029	10.26.1			
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.M.S. tube			
	Net Total	289.000kg	@178.94/kg	51713.66
6.030	100.36.1			
	Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.			
	Net Total	341.145Kilo litre	@190.05/Kilo litre	64834.61
6.031	100.41.33			
	Supplying and fixing 500mm dia C.I. manhole cover with frame (medium duty) charges including all cost, labour charges etc., complete.			
	Net Total	4.000no	@7835.92/no	31343.68
6.032	100.31.1.12			
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 600mm diameter, Class I.			
	Net Total	2.000no	@9081.70/no	18163.40
6.033	13.71			
	Lettering with black Japan pint of approved brand and manufacture			
	Net Total	217.000per Letter per cm	@5.82/per Letter per cm height	1262.94

SI No	Specification	Quantity	Rate	Amount
		height		
6.034	13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work			
	Net Total	29.700sqm	@149.31/sqm	4434.51
6.035	OD175851/2022-2023 Supplying and providing 100mm dia C I vent cowl including fitting charges etc.			
	Net Total	5.000no	@2486.69/no	12433.45
6.036	OD175918/2022-2023 Supplying and providing water level indicator to the tank using scale fabricated out of 2mm thick MS plate with in the frame work of suitable size MS square tube, 160mm PVC pipe for guiding the float, necessary pullies, suitable nylon thread for connecting float and level indicator, painting the entire structure, lettering etc complete including all charges for material and labour for GL tank			
	Net Total	1.000no	@10453.50/no	10453.50
6.037	18.68.1 Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia			
	Net Total	1.420quintal	@21003.05/quintal	29824.33
	<b>Heading Total(Rs)</b>			6842067.65
<b>7 Part VII-Construction of Retaining Wall</b>				
7.001	2.9.3 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Hard rock (blasting prohibited)			
	Net Total	34.000cum	@1327.61/cum	45138.74
7.002	OD175264/2022-2023 Dowel Bar-Supplying and providing MS dowel bars of size 16mm dia. of 2m long. (1m in rock and 1m in concrete) including drilling holes of 20mm dia. and filling the gap with cement grout (100kg/hole) etc.			
	Net Total	595.000no	@611.78/no	364009.10
7.003	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)			
	Net Total	34.000cum	@7690.32/cum	261470.88
7.004	5.33.2			

SI No	Specification	Quantity	Rate	Amount
	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	231.306cum	@11550.42/cum	2671681.45
7.005	5.9.1			
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	42.500sqm	@350.00/sqm	14875.00
7.006	5.9.2			
	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.			
	Net Total	480.250sqm	@748.62/sqm	359524.76
7.007	16.78.3			
	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge. With material conforming to Grade - III ( size range 26.5 mm to 0.075 mm) having CBR Value - 20			
	Net Total	98.600cum	@3030.61/cum	298818.15
7.008	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	17347.950kilogram	@102.61/kilogram	1780073.15
7.009	OD175226/2022-2023			
	Providing and fixing 50mm PVC WEEP HOLES at 1.00 m spacing for walls, as per direction of Engineer-in-Charge 50 mm dia 10 Kfg/cm - Internal work- Exposed on wall			
	Net Total	165.000no	@63.88/no	10540.20
7.010	50.2.25.1			
	Filling with contractor's own earth ( excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge			
	Net Total	558.750cum	@548.87/cum	306681.11

SI No	Specification	Quantity	Rate	Amount
<b>Heading Total(Rs)</b>				6112812.54
<b>8 Part VIII-Construction of Box Culvert</b>				
8.001	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil		
	Net Total	82.068cum	@309.99/cum	25440.26
8.002	2.9.1	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Ordinary rock		
	Net Total	35.172cum	@550.64/cum	19367.11
8.003	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)		
	Net Total	13.400cum	@7690.32/cum	103050.29
8.004	5.33.1	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level		
	Net Total	102.900cum	@9825.93/cum	1011088.20
8.005	5.33.2	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level		
	Net Total	0.280cum	@11550.42/cum	3234.12
8.006	5.9.1			

SI No	Specification	Quantity	Rate	Amount
	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete			
	Net Total	76.800sqm	@350.00/sqm	26880.00
8.007	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	301.600sqm	@748.62/sqm	225783.79
8.008	5.22.6			
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more			
	Net Total	12381.600kilogram	@102.61/kilogram	1270475.98
8.009	50.2.25.1			
	Filling with contractor's own earth ( excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge			
	Net Total	122.200cum	@548.87/cum	67071.91
8.010	10.26.3			
	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. pipes			
	Net Total	206.000kg	@194.15/kg	39994.90
<b>Heading Total(Rs)</b>				2792386.56
<b>9 Part IX-Supply of lab equipments</b>				
9.001	OD182828/2022-2023			
	Supply of pH Buffer tablets-pH-4 (10Nos. -1pkt)			
	Net Total	1.000no	@257.92/no	257.92
9.002	OD182829/2022-2023			
	Supply of pH Buffer tablets-pH-7 (10Nos. -1pkt)			
	Net Total	1.000no	@257.92/no	257.92
9.003	OD182832/2022-2023			
	Supply of pH Buffer tablets-pH-9 (10Nos. -1pkt)			
	Net Total	1.000no	@257.92/no	257.92
9.004	OD182833/2022-2023			
	Supply of Refrigerator			
	Net Total	1.000no	@20025.85/no	20025.85
9.005	OD182835/2022-2023			
	Supply of Flocculator:- (Jar Testing Apparatus or MultiSpindle Stirrer):- Continuous			

SI No	Specification	Quantity	Rate	Amount
	duty geared motor drive with built in speed control, S.S Stirring shafts with adjustable height S.S. propeller and tube lights for illumination available in various models. KFLO-2 1/20 0-100rpm 6nos. Multi Spindle (HSN-8421, Make-Kemi)			
	Net Total	1.000no	@28061.23/no	28061.23
9.006	OD182848/2022-2023 Supply of Digital pH Meter with Electrode &lt;br&gt;Model # MK-VI - Make- Eutech			
	Net Total	1.000no	@42534.92/no	42534.92
9.007	OD182849/2022-2023 Supply of Digital Nephelo/Turbidity Meter &lt;br&gt;Model # 132Make - Eutech			
	Net Total	1.000no	@59076.28/no	59076.28
9.008	OD182882/2022-2023 Supply of Distillation units-All glass, double with borosilicate boiler, borosilicate condenser & quartz heater, horizontal type, Output Capacity: 1.5 Ltr, Electrical Requirements: 230-250 volts single phase 1.5x2kw quartz heater, Cooling water consumption: 100Ltr/Hr, Biological activity: Pyrogen free, pH: 6.9-7, Conductivity S/cm: &lt;1x10-6, Distillate temp: 65-750C, Total Power Consumed: 1.5x2=3KW Cat # 3362041, HSN 8419, Make-Borosil&reg;			
	Net Total	1.000no	@39573.10/no	39573.10
9.009	OD182883/2022-2023 Supply of Bunsen burner mansfield type with all brass springloaded lock type heavy stopcock, &lt;br&gt;Cat # 973, HSN-8481, Make-Dollar			
	Net Total	1.000no	@2693.88/no	2693.88
9.010	OD182886/2022-2023 Supply of Bunsen burner mansfield type with all brass springloaded lock type heavy stopcock, &lt;br&gt;Cat # 973, HSN-8481, Make-Dollar.			
	Net Total	1.000no	@2693.88/no	2693.88
9.011	OD182887/2022-2023 Supply of Rubber tube pressure 6x3mm , HSN 4009, Make- National			
	Net Total	1.000metre	@1122.43/metre	1122.43
9.012	OD182888/2022-2023 Supply of Chloroscope ampule type 0.1-2.0PPM (12 Amps) , HSN-9031, Make-Sumeet			

SI No	Specification	Quantity	Rate	Amount
	Net Total	1.000no	@2481.19/no	2481.19
9.013	OD182897/2022-2023 Supply of Stop watch digital (Make-9102)			
	Net Total	1.000roll	@583.67/roll	583.67
9.014	OD182898/2022-2023 Supply of Physical balance (Common balance) in glass case, divided door, Bakelite pans, wooden base, capacity 250gm, sensibility 1mg, Model # P-I, (HSN-9016, Make-Keroy)			
	Net Total	1.000no	@4209.18/no	4209.18
9.015	OD182899/2022-2023 Supply of Lamposolv LR, Cat # L20129, (For Spirit Lamp Only), (HSN-3822, Make-Nice)			
	Net Total	1.000Litre	@203.04/Litre	203.04
9.016	OD182904/2022-2023 Supply of Physical balance (Common balance) in glass case, divided door, Bakelite pans, wooden base, capacity 250gm, sensibility 1mg, Model # P-I, (HSN-9016, Make-Keroy)			
	Net Total	1.000no	@4209.18/no	4209.18
9.017	OD182905/2022-2023 Supply of Chemical Balance 0.2mg, Capacity: 200gm &lt;br&gt;Model # K-6 (HSN 9016, Make-Keroy)			
	Net Total	1.000no	@4377.54/no	4377.54
9.018	OD182906/2022-2023 Supply of Analytical Weight Box Class A : Brass C.P.weights, in beautiful spray painted velvet &lt;br&gt;lined teak wood box, calibrated strictly within the error limit of tolerances permitted by N.P.L. India Class A, with certificate of actual Values:-Capacity:1 mg to 100 gm, Cat # 701 A (HSN-8423, Make-Dollar)			
	Net Total	1.000no	@898.75/no	898.75
9.019	OD182908/2022-2023 Supply of Water testing kit (for the estimation of total &lt;br&gt;hardness), Cat # W 25550, (HSN 3822, Make-Nice)			
	Net Total	1.000no	@838.83/no	838.83
9.020	OD182933/2022-2023 Supply of Water testing kit (for the estimation of calcium hardness), Cat # W 25525 (HSN 3822, Make Nice)			
	Net Total	1.000no	@1127.67/no	1127.67



SI No	Specification	Quantity	Rate	Amount
9.021	OD182962/2022-2023			
	Supply of Water testing kit (For the estimation of fluoride, chloride and residual chlorine), Cat # W25535 (HSN-3822, Make-Nice)			
	Net Total	1.000no	@1467.98/no	1467.98
9.022	OD182963/2022-2023			
	Supply of Water Testing kit (Residual Chlorine) Cat #W 25540, (HSN-3822, Make-Nice)			
	Net Total	1.000Litre	@366.99/Litre	366.99
9.023	OD182985/2022-2023			
	Supply of Water Testing Kit (For the estimation of total alkalinity and pH), Cat # W 25530 (HSN-3822, Make-Nice), 2x200 te			
	Net Total	1.000set	@834.07/set	834.07
9.024	OD182987/2022-2023			
	Supply of Water testing kit (For the estimation of arsenic) Cat # W 25515, (HSN-3822, Make Nice) - 25te			
	Net Total	1.000tonne	@2018.94/tonne	2018.94
9.025	OD182990/2022-2023			
	Supply of Water testing kit - refill pack (Reagents only) (For the estimation of arsenic), Cat # W 25615. (HSN- 3822, Make- Nice)			
	Net Total	1.000no	@1100.98/no	1100.98
9.026	OD182991/2022-2023			
	Supply of Water testing kit (For the estimation of phosphate & iron), Cat # W 25520(HSN 3822, Make- Nice) -2x200 t			
	Net Total	1.000no	@733.99/no	733.99
9.027	OD182992/2022-2023			
	Supply of Water testing kit (for the estimation of Nitrate, Nitrite and ammonium in water) Cat # W 25560 (HSN- 3822, Make- Nice)			
	Net Total	1.000no	@1096.21/no	1096.21
9.028	OD182994/2022-2023			
	Supply of Water testing kit (Microbiological testing), Cat # W25570(HSN- 3822, Make- Nice) - 10 te			
	Net Total	1.000no	@1667.19/no	1667.19
9.029	OD182997/2022-2023			

SI No	Specification	Quantity	Rate	Amount
	Supply of Water testing kit (for the estimation of dissolved oxygen) Cat # W 25565 (HSN 3822, Make Nice) -25 te			
	Net Total	1.000no	@3040.81/no	3040.81
9.030	OD182998/2022-2023			
	Supply of Digital Conductivity Meter with Cell Model # 304 (HSN- 9027, Make- Systronics)			
	Net Total	1.000no	@13806.12/no	13806.12
9.031	OD182999/2022-2023			
	Supply of &micro;Controlled based UV/Vis.Spectrophotometer (HSN- 9027, Make Systronics)			
	Net Total	1.000no	@236305.16/no	236305.16
9.032	OD183001/2022-2023			
	Supply of Electronic balance, Accuracy: 0.01gm (10mg), Capacity: 300gm, Model # HJ26 (HSN- 8423, Make- Hercules)			
	Net Total	1.000no	@9452.21/no	9452.21
9.033	OD183002/2022-2023			
	Supply of Electronic Balance Top Pan, External Calibration, Accuracy 1mg (0.001gm) Capacity 220gm Pan size 100x100mm Model BL220H (Make- Shimadzu)			
	Net Total	1.000no	@177228.87/no	177228.87
9.034	OD183004/2022-2023			
	Supply of Bacteriological Incubator (Bottom Heated Thermostatic (Inner chamber & trays Aluminium):- Double wall chambers inner made of Aluminium and outer of mild steel sheet duly powder coated with 2 1/2" thick glass wool insulation. Temperature is controlled by an imported thermostat to a maximum of 1100C with an accuracy of +/- 10C and working temperature of ambient +50C to 800C and without thermometer. Model # Size No. of Trays Heater Capacity KIA-1 300x300x300mm 2 250 W 28 Ltr (HSN 8419, Make- Kemi			
	Net Total	1.000no	@21326.53/no	21326.53
9.035	OD183005/2022-2023			
	Supply of Optional:- &lt;br&gt;a) Micro processor based digital temperature controller for the above (HSN- 8419, Make- Kemi)			
	Net Total	1.000no	@5612.24/no	5612.24
9.036	OD183007/2022-2023			
	Supply of Bacteriological Incubator (Bottom Heated-Thermostatic (Inner chamber & trays			

SI No	Specification	Quantity	Rate	Amount
	Aluminium):- Double wall chambers inner made of Aluminium and outer of mild steel sheet duly powder coated with 21/2&quot; thick glass wool insulation. Temperature is controlled by an imported thermostat to a maximum of 1100C with an accuracy of +/-10C and working temperature of ambient +50C to 800C and without thermometer.&lt;br&gt;Model # Size No. of Trays Heater Capacity&lt;br&gt;KIA-1 300x300x300mm 2 250 W 28 Ltr. (HSN-8419, Make Kemi)&lt;br&gt;b) Air circulation fan for the above			
	Net Total	1.000no	@2806.12/no	2806.12
9.037	OD183009/2022-2023 Supply of Nessler Cylinders-Colour comparison, flat bottom, graduated, as per I.S. 4161 Capacity: 100ml Approx. O.D. x Height: 34x180mm, &lt;br&gt;Cat # 2975016 (HSN- 7017, Make Borosil&reg;)			
	Net Total	1.000no	@260.52/no	260.52
9.038	OD183012/2022-2023 Supply of Nessler Cylinders-Colour comparison, flat bottom, graduated, as per I.S. 4161, Capacity: 50ml Approx. O.D. x Height: 25x150mm, &lt;br&gt;Cat # 2975012 (HSN- 7017, Make- Borosil&reg; )			
	Net Total	1.000no	@175.46/no	175.46
9.039	OD183013/2022-2023 Supply of Conical Flasks-Erlenmeyer, Graduated, N/M, &lt;br&gt;Capacity: 100ml, Approx. O.D. x Height: 64x105mm, Approx. Neck O.D.: 22mm, &lt;br&gt;Cat # 4980016 (HSN- 7017, Make Borosil&reg; )			
	Net Total	1.000no	@85.07/no	85.07
9.040	OD183017/2022-2023 Supply of Volumetric Flask, with IC Solid Glass stopperAccuracy as per Class B, Capacity: 100ml, Tolerance: +/-0.20ml, Stopper size: 14/15, Cat # 5641016 (HSN- 7017, Make Borosil&reg; )			
	Net Total	1.000no	@281.80/no	281.80
9.041	OD183018/2022-2023 Supply of Volumetric Flask, with IC Solid Glass stopperAccuracy as per Class B, Capacity: 250ml, Tolerance: +/-0.30ml, Stopper size:14/15, Cat # 5641021 (HSN- 7017, Make Borosil&reg; )			
	Net Total	1.000no	@334.95/no	334.95
9.042	OD183030/2022-2023			

SI No	Specification	Quantity	Rate	Amount
	Supply of Volumetric Flask, with IC Solid Glass stopper Accuracy as per Class B, Capacity:			
	Net Total	1.000no	@446.61/no	446.61
9.043	OD183032/2022-2023			
	Supply of Pipettes, Serological Class B, Capacity : 10x0.1ml Tolerance +/-0.1, Cat # 7080P06 &lt;br&gt;(HSN- 7017, Make-Borosil&reg; )			
	Net Total	1.000no	@180.77/no	180.77
9.044	OD183036/2022-2023			
	Supply of Burettes-Boroflo, fitted with boroflo GP (General purpose), screw thread stopcocks with PTFE keys, accuracy as per Class B of I.S. 1997:2008,/EN ISO Capacity: 25ml, Graduation interval: 0.1ml, Tolerance: +/- 0.1ml Cat # 2122009 (HSN- 7017, Make Borosil&reg; )			
	Net Total	1.000no	@568.91/no	568.91
9.045	OD183037/2022-2023			
	Supply of Burettes-Straight bore stopcock, accuracy as per Class B of I.S. 1997:2008/EN ISO 385, Capacity: 25ml Graduation interval: 0.1ml, Tolerance: +/-0.1ml, Cat # 2124009. (HSN 7017, Make-Borosil&reg; )			
	Net Total	1.000no	@675.23/no	675.23
9.046	OD183038/2022-2023			
	Supply of Burettes-Boroflo, fitted with boroflo GP (General&lt;br&gt;purpose), screw thread stopcocks with PTFE keys, accuracy as per Class B of I.S. 1997:2008/EN ISO, Capacity: 50ml, Graduation interval: 0.1ml, Tolerance:+/-0.1ml &lt;br&gt;Cat # 2122012(HSN- 7017, Make-Borosil&reg; )			
	Net Total	1.000no	@616.76/no	616.76
9.047	OD183039/2022-2023			
	Supply of Burettes-Straight bore stopcock, accuracy as per Class B of I.S. 1997:2008/EN ISO 385, Capacity: 50ml Graduation interval: 0.1ml, Tolerance: +/-0.1ml, Cat # 2124012 (HSN 7017, Make-Borosil&reg; )			
	Net Total	1.000no	@717.77/no	717.77
9.048	OD183040/2022-2023			
	Supply of Burettes-Boroflo, fitted with boroflo GP (General purpose), screw thread stopcocks with PTFE keys, accuracy as per Class B of I.S. 1997:2008/EN ISO, Capacity: 100ml, Graduation interval: 0.2ml, Tolerance: +/- 0.2ml, Cat # 2122016 (HSN- 7017, Make Borosil&reg; )			
	Net Total	1.000no	@919.83/no	919.83

SI No	Specification	Quantity	Rate	Amount
9.049	OD183041/2022-2023			
	Supply of Burettes-Straight bore stopcock, accuracy as per Class B of I.S. 1997:2008/EN ISO 385, Capacity: 100ml Graduation interval: 0.2ml, Tolerance: +/-0.2ml, Cat # 2124016 (HSN 7017, Make-Borosil&reg;			
	Net Total	1.000no	@1026.15/no	1026.15
9.050	OD183042/2022-2023			
	Supply of Retort stand 7x5&quot; (HSN-9027)			
	Net Total	1.000no	@319.01/no	319.01
9.051	OD183043/2022-2023			
	Supply of Fisher clamp single. (HSN-9027)			
	Net Total	1.000no	@116.97/no	116.97
9.052	OD183044/2022-2023			
	Supply of Nestler cylinder stand PP 50ml, Cat # 76101 (HSN-3926,Make -Polylab)			
	Net Total	1.000no	@206.76/no	206.76
9.053	OD183045/2022-2023			
	Supply of Nestler cylinder stand PP 100ml, Cat # 76102 (HSN-3926,Make -Polylab) (HSN 3926,Make -Polylab)			
	Net Total	1.000no	@206.76/no	206.76
9.054	OD183047/2022-2023			
	Supply of Pipette stand horizontal for 12 pipettes,Cat # 79101(HSN-3926,Make - Polylab)			
	Net Total	1.000no	@147.68/no	147.68
9.055	OD183049/2022-2023			
	Supply of Pipette barrel 38x&Oslash;6cm 15&quot; S.SD,Model # 6601 (HSN-7326,Make - Equitron)			
	Net Total	1.000no	@1122.43/no	1122.43
9.056	OD183050/2022-2023			
	Supply of Reagent Bottle, plain N/M, Graduated with IC flat head stopper, Capacity: 125ml, Approx. O.D. x Height: 56x120mm, Neck Stopper size stopper: 19/26 Cat # 1500017 (HSN 7017,Make -Borosil&reg;)			
	Net Total	1.000no	@324.32/no	324.32
9.057	OD183051/2022-2023			
	Supply of Reagent Bottle, amber, N/M Graduated with IC flat head stopper Capacity: 1000ml, Approx O.D. x Height: 101x230mm, Neck Stopper &lt;br&gt;size:29/32, Cat # 1509029 (HSN			

SI No	Specification	Quantity	Rate	Amount
	7017, Make -Borosil&reg;			
	Net Total	1.000no	@935.56/no	935.56
9.058	OD183053/2022-2023 Supply of Reagent Bottle, plain N/M, Graduated with IC flat head stopper, Capacity: 500ml, Approx. O.D. x Height: 86x180mm, Neck Stopper size stopper: &lt;br&gt;24/29 Cat # 1500024(HSN 7017, Make -Borosil&reg;			
	Net Total	1.000no	@382.81/no	382.81
9.059	OD183054/2022-2023 Supply of Reagent Bottle, plain N/M, Graduated with IC flat head stopper, Capacity: 1000ml, Approx. O.D. x Height: 100x230mm, Neck Stopper size stopper: 29/32 Cat # 1500029 (HSN-7017, Make -Borosil&reg;)			
	Net Total	1.000no	@611.43/no	611.43
9.060	OD183055/2022-2023 Supply of Conical Flasks-Erlenmeyer, Graduated, N/M, Capacity: 1000ml, Approx. O.D. x Height: 131x220mm, Approx. Neck O.D.: 42mm, Cat # 4980029 (HSN-7017, Make - Borosil&reg;)(HSN 7017, Make -Borosil&reg;)			
	Net Total	1.000no	@5222.24/no	5222.24
9.061	OD183059/2022-2023 Supply of Round Bottom Boiling flasks-short neck, with IC joint: 24/29 Capacity: 1000ml, Height: 210mm, Cat # 4380B29 (HSN-7017, Make -Borosil&reg;)			
	Net Total	1.000no	@414.71/no	414.71
9.062	OD183091/2022-2023 Supply of Round Bottom Boiling flasks-short neck, with IC joint: 24/29 Capacity: 500ml, Height: 170mm, Cat # 4380C24 (HSN-7017, Make -Borosil&reg;)			
	Net Total	1.000no	@308.38/no	308.38
9.063	OD183092/2022-2023 Supply of Desiccators-Vaccum, Stopcock with PTFE Spindle and porcelain plate, Approx. I.D. of Ground Flange: 200mm Cat # 3083043(HSN 7017, Make -Borosil&reg;			
	Net Total	1.000no	@17253.22/no	17253.22
9.064	OD183093/2022-2023 Supply of Desiccator vaccum PP/PC, 200mm, Cat # 55205 (HSN-3926, Make - Polylab)			
	Net Total	1.000no	@2622.98/no	2622.98
9.065	OD183094/2022-2023 Supply of Liebig Condenser, drip tip, IC inner joint and IC outer joint,			

SI No	Specification	Quantity	Rate	Amount
	Approx.Length of Jacket: 300mm, Approx.overall Height: 450mm, IC inner joint: socket 24/29 IC joint: cone 24/29 ,Cat # 2400090 (HSN-7017,Make -Borosil&reg;)			
	Net Total	1.000no	@552.94/no	552.94
9.066	OD183095/2022-2023			
	Supply of Mac Cartney bottle (Culture bottle) W/M 30ml (HSN-7017,Make - Borosil&reg;)			
	Net Total	1.000no	@23.62/no	23.62
9.067	OD183107/2022-2023			
	Supply of Reagent bottle N/M 125ml, Cat # 33302 (HSN-3923,Make -Polylab)			
	Net Total	1.000no	@29.53/no	29.53
9.068	OD183108/2022-2023			
	Supply of Reagent bottle W/M 125ml, Cat # 33307 (HSN-3923,Make -Polylab)			
	Net Total	1.000no	@29.53/no	29.53
9.069	OD183109/2022-2023			
	Supply of Beaker PP 100ml, Cat # 11102(HSN 3926,Make -Polylab)			
	Net Total	1.000no	@17.71/no	17.71
9.070	OD183110/2022-2023			
	Supply of Beaker PP 250ml, Cat # 11104 (HSN-3926,Make -Polylab)			
	Net Total	1.000no	@35.44/no	35.44
9.071	OD183112/2022-2023			
	Supply of Spatula S.S 6" (HSN-9027)			
	Net Total	1.000no	@20.19/no	20.19
9.072	OD183115/2022-2023			
	Supply of Stirrer, Glass Rod Approx OD x Length 7x205mm Cat # 9850207 (HSN-7017,Make Borosil&reg;)			
	Net Total	1.000no	@31.89/no	31.89
9.073	OD183116/2022-2023			
	Supply of Pipette bulb rubber small (HSN-4014,Make National)			
	Net Total	1.000no	@37.21/no	37.21
9.074	OD183117/2022-2023			
	Supply of Pipette bulb rubber medium (HSN-4014,Make-National)			
	Net Total	1.000no	@40.41/no	40.41
9.075	OD183126/2022-2023			
	Supply of Pipette bulb rubber large (HSN-4014,Make-National)			

SI No	Specification	Quantity	Rate	Amount
	Net Total	1.000no	@42.54/no	42.54
9.076	OD183128/2022-2023 Supply of Pipette bulb rubber ex-large (HSN-4014, Make-National)			
	Net Total	1.000no	@47.84/no	47.84
9.077	OD183129/2022-2023 Supply of Crucible porcelain with lid 30ml (HSN 6909, Make-National)			
	Net Total	1.000no	@56.11/no	56.11
9.078	OD183133/2022-2023 Supply of Crucible silica without lid 25ml (HSN 7017, Make-Infusil)			
	Net Total	1.000no	@336.73/no	336.73
9.079	OD183136/2022-2023 Supply of China dish porcelain 4&quot; (HSN-6909, Make J.India)			
	Net Total	1.000no	@67.34/no	67.34
9.080	OD183157/2022-2023 Supply of Watch glass superior 6&quot;(HSN-7015, Make J.India)			
	Net Total	1.000no	@50.51/no	50.51
9.081	OD183158/2022-2023 Supply of Watch glass superior 4&quot; (HSN-7015)			
	Net Total	1.000no	@19.08/no	19.08
9.082	OD183160/2022-2023 Supply of Measuring Cylinders-Graduated, single metric scale, with pour out, with hexagonal base, Class B Capacity: 1000ml, Graduation interval: 10.0ml, &lt;br&gt;Tolerance: +/- 10.0ml, Cat # 3022029 (HSN-7017)			
	Net Total	1.000no	@1515.31/no	1515.31
9.083	OD183161/2022-2023 Supply of Measuring Cylinders-Graduated, single metric scale, with pour out, with hexagonal base, Class B Capacity: 500ml, Graduation interval: 5.0ml, &lt;br&gt;Tolerance: +/-5.0ml, Cat # 3022024 (HSN-7017)			
	Net Total	1.000no	@999.57/no	999.57
9.084	OD183163/2022-2023 Supply of Measuring Cylinders-Graduated, single metric scale, with pour out, with hexagonal base, Class B Capacity: 250ml, Graduation interval: 2.0ml, &lt;br&gt;Tolerance: +/-2.0ml, Cat #			
	Net Total	1.000no	@765.62/no	765.62



SI No	Specification	Quantity	Rate	Amount
9.085	OD183164/2022-2023			
	Supply of Durham&#39;s tube 1&quot;x6/7mm (HSN-7017			
	Net Total	1.000no	@0.95/no	0.95
9.086	OD183166/2022-2023			
	Supply of Autoclave (Vertical):- Double wall construction with inner S.S. 304, all these sheets are argon welded & outer chamber made of high quality MS sheet duly powder coated. Electrically heated by means of ISI quality emersion heaters with working pressure 15 PSI. Hydraulically dye pressed Lid from S.S. plate with, easy pedal lifting device, having pressure gauge, two nos safety valve, quick release coupling & handle with heater cover stand. Water level arrangement cut off buzzer system and SS perforated basket supplied along with unit on free of cost.Inner S.S. & Outer M.S. (With energy regulator) Model # Size (Dia x Height) Heater Volume-KAUC-A1 250x450mm - 1.5 K.W. 22 Ltr. (HSN-8419,Make-Kemi )			
	Net Total	1.000no	@38163.28/no	38163.28
9.087	OD183168/2022-2023			
	Supply of Digital Temperature Controller cum Indicator (Instead of energy regulator) for the above (HSN-8419,Make-Kemi )			
	Net Total	1.000no	@5612.24/no	5612.24
9.088	OD183172/2022-2023			
	Supply of Digital Timer for the above(HSN-8419,Make Kemi )			
	Net Total	1.000no	@3367.34/no	3367.34
9.089	OD183173/2022-2023			
	Supply of Auto Pressure cut off system for the above (HSN-8419,Make-Kemi )			
	Net Total	1.000no	@3928.56/no	3928.56
9.090	OD183174/2022-2023			
	Supply of Computer (i3 7th Gen Processor, MB,1TB HDD,20 INCH Monitor, Mouse, Keyboard, etc.) of approved make 3 year warranty			
	Net Total	1.000no	@34043.96/no	34043.96
9.091	OD183201/2022-2023			
	Supply of UPS system of 1100VA approved make			
	Net Total	1.000no	@5507.10/no	5507.10

SI No	Specification	Quantity	Rate	Amount
<b>Heading Total(Rs)</b>				826176.43
<b>10</b>	<b>Part X-Construction of Compound Wall</b>			
10.001	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	76.928cum	@1327.61/cum	102130.38
10.002	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	12.736cum	@7113.43/cum	90596.64
10.003	50.6.1.1	Solid block masonry using pre cast solid blocks ( factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part 1 of 1979 for foundation and plinth with thickness 20 cm and above in: CM 1:6 ( 1 cement : 6 coarse sand) etc complete		
	Net Total	121.016cum	@6024.02/cum	729002.80
10.004	5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size		
	Net Total	10.444cum	@9483.13/cum	99041.81
10.005	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	3.360sqm	@350.00/sqm	1176.00
10.006	5.9.5	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers		
	Net Total	41.600sqm	@678.27/sqm	28216.03
10.007	5.9.6	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts		
	Net Total	15.360sqm	@901.45/sqm	13846.27
10.008	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		

SI No	Specification	Quantity	Rate	Amount
	Net Total	83.552kilogram	@102.61/kilogram	8573.27
10.009	13.1.1	12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)		
	Net Total	806.784sqm	@327.87/sqm	264520.27
10.010	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	835.960sqm	@73.75/sqm	61652.05
10.011	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	835.960sqm	@158.06/sqm	132131.84
10.012	10.25.2	Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works		
	Net Total	542.000kg	@160.93/kg	87224.06
10.013	13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On steel work		
	Net Total	90.000sqm	@233.14/sqm	20982.60
<b>Heading Total(Rs)</b>				1639094.02
<b>11</b>	<b>Part XI-Approach road,road restoration and landscaping</b>			
11.001	2.1.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed:All Kinds of soil		
	Net Total	216.000sqm	@113.73/sqm	24565.68
11.002	16.78.1	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge.With Material conforming to Grade - I ( size range 75 mm to 0.075 mm) having CBR Value- 30		
	Net Total	43.200cum	@3093.42/cum	133635.74

SI No	Specification	Quantity	Rate	Amount
11.003	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	38.550cum	@8340.91/cum	321542.08
11.004	OD184480/2022-2023			
	Providing and laying 100 mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.			
	Net Total	225.000sqm	@960.91/sqm	216204.75
11.005	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	45.450sqm	@748.62/sqm	34024.78
			<b>Heading Total(Rs)</b>	<b>729973.03</b>
<b>12</b>	<b>Part XII-Water supply and sanitary arrangements</b>			
12.001	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/cm <sup>2</sup> - Internal work - Exposed on wall			
	Net Total	85.000metre	@264.96/metre	22521.60
12.002	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/cm <sup>2</sup> - Internal work - Exposed on wall			
	Net Total	85.000metre	@327.50/metre	27837.50
12.003	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/cm <sup>2</sup> - Internal work- exposed on wall			
	Net Total	43.000metre	@420.38/metre	18076.34
12.004	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/cm <sup>2</sup>			
	Net Total	75.000metre	@424.81/metre	31860.75

SI No	Specification	Quantity	Rate	Amount
12.005	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/cm <sup>2</sup>			
		Net Total	33.000metre @404.42/metre	13345.86
12.006	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
12.007	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
12.008	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
12.009	17.7.11 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap			
		Net Total	1.000each @5476.32/each	5476.32
12.010	17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid			
		Net Total	1.000each @6463.93/each	6463.93
12.011	OD169498/2022-2023 Supply and fixing suitable Precast septic tank along with soak pit (R.C.C) including all cost materials and labour charges as per direction of Departmental officers			
		Net Total	1.0001 nos @26133.75/1 nos	26133.75
12.012	17.7.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap			

SI No	Specification	Quantity	Rate	Amount
	Net Total	1.000each	@2698.18/each	2698.18
12.013	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
12.014	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
12.015	17.28.2.1			
	Flexible pipe 32 mm dia			
	Net Total	2.000each	@124.22/each	248.44
12.016	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	23.000metre	@1341.97/metre	30865.31
12.017	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
12.018	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
12.019	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			

SI No	Specification	Quantity	Rate	Amount
	(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
12.020	OD169523/2022-2023			
	Supplying, covey ,and fixing 40mm G.M ball valve with polythene float for 40 mm &gt;connection (heavy quality)including cost of all necessary fittings as per required, jointing materials in any position as per the direction &gt;of Departmental officers. no separate payment will be made for accessories, specials.			
	Net Total	1.0001 nos	@810.40/1 nos	810.40
12.021	OD175983/2022-2023			
	Supplying, covey ,and fixing 32mm G.M ball valve with polythene float for 32mm &gt;connection (heavy quality)including cost of all necessary fittings as per required, jointing materials in any position as per the direction &gt;of Departmental officers. no separate payment will be made for accessories, specials.			
	Net Total	1.000no	@622.23/no	622.23
12.022	OD176010/2022-2023			
	Supplying, covey ,and fixing 25mm G.M ball valve with polythene float for 25mm &gt;connection (heavy quality)including cost of all necessary fittings as per required, jointing materials in any position as per the direction &gt;of Departmental officers. no separate payment will be made for accessories, specials.			
	Net Total	1.000no	@561.84/no	561.84
12.023	OD176053/2022-2023			
	Supplying, covey ,and fixing G.M ball valve with polythene float for 20mm &gt;connection (heavy quality)including cost of all necessary fittings as per required, jointing materials in any position as per the direction &gt;of Departmental officers. no separate payment will be made for accessories, specials.			
	Net Total	1.000no	@454.98/no	454.98
12.024	OD176374/2022-2023			
	Supplying, covey, fitting, and fixing of 15mm stainless steel tap set with all accessories &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 ,tap, shower etc as per the &gt;direction of departmental officers .(No separate payment will be made for accessories specials).			
	Net Total	2.000no	@585.40/no	1170.80
12.025	OD176245/2022-2023			
	Supplying, covey, fitting and fixing 15mm chrome plated angle valve with branch connection of &lt;br>&gt;approved make (As per ASTM D 2467, SHEDULE 80).complete in the all respect including cost of all necessary fittings &gt;as fittings as required, jointing materials in any position as per the direction of departmental officers .(No separate payment will be made for accessories specials).			
	Net Total	5.000no	@370.75/no	1853.75

SI No	Specification	Quantity	Rate	Amount
<b>Heading Total(Rs)</b>				228084.09
<b>13</b>	<b>Part XIII-Electrical and Mechanical Items</b>			
13.001	OD182807/2022-2023			
	Supply, erection, testing and commissioning of Electrical and Mechanical items for 8.25 MLD WTP as per the directions of departmental officer.			
	Net Total	1.000L.S	@10957273.91/L .S	10957273.9 1
<b>Heading Total(Rs)</b>				10957273.9 1
<b>14</b>	<b>Part XIV-Operation and Maintainance charges</b>			
14.001	OD250873/2022-2023			
	Operation and maintenance of WTP during guarantee period			
	Net Total	540.000Day	@6204.30/Day	3350322.00
14.002	OD250874/2022-2023			
	Supply and delivery of Alum (or as per condition)			
	Net Total	111.375MT	@20254.70/MT	2255867.21
14.003	OD250875/2022-2023			
	Supply and delivery of Hydrated lime as per specification at dosage(or as per condition)			
	Net Total	84.645MT	@12488.45/MT	1057084.85
<b>Heading Total(Rs)</b>				6663274.06
<b>15</b>	<b>Part XV- Wiring and Electrification works</b>			
15.001	OD248954/2022-2023			
	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	110.000no	@538.46/no	59230.60
15.002	OD248955/2022-2023			
	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			



SI No	Specification	Quantity	Rate	Amount
	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	200.000metre @142.22/metre	28444.00
15.003	OD248995/2022-2023			
	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
15.004	OD249001/2022-2023			
	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	1400.000metre @126.55/metre	177170.00
15.005	OD249078/2022-2023			
	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
15.006	OD249086/2022-2023			
	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;4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire			
		Net Total	200.000metre @258.91/metre	51782.00
15.007	OD249111/2022-2023			
	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			

SI No	Specification	Quantity	Rate	Amount
	medium class PVC conduit&lt;br&gt;as&lt;br&gt;required.&lt;br&gt;4 X 4 sq. mm + 2 X 4 sq. mm earth wire			
		Net Total	160.000metre @342.25/metre	54760.00
15.008	OD249115/2022-2023 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;4 X 6 sq. mm + 2 X 6 sq. mm earth wire			
		Net Total	190.000metre @496.39/metre	94314.10
15.009	OD249124/2022-2023 Supplying and fixing two module stepped type electronic fan regulator on the existing&lt;br&gt;modular&lt;br&gt;plate switch box including connections but excluding modular plate etc.&lt;br&gt;as required.			
		Net Total	20.000no @380.03/no	7600.60
15.010	OD249137/2022-2023 providing and fixing fallowing rating and breking capacity MCCB with thermodynamic release and&lt;br&gt;terminal spreders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel,making			
		Net Total	1.000no @5209.45/no	5209.45
15.011	OD249144/2022-2023 providing and fixing fallowing rating and breking capacity MCCB with thermodynamic release and&lt;br&gt;terminal spreders in existing cubicle PANEL / vertical DB including drilling holes in cubicle panel,making connections&lt;br&gt;etc as required&lt;br&gt;125A, 16KA			
		Net Total	2.000no @4605.89/no	9211.78
15.012	OD249157/2022-2023 Providing and fixing fallowing 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
15.013	OD249162/2022-2023			

SI No	Specification	Quantity	Rate	Amount
	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
15.014	OD249168/2022-2023			
	Providing and fixing following capacity TP&amp;N disconnector 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&amp;N			
	Net Total	1.000no	@10118.88/no	10118.88
15.015	OD249189/2022-2023			
	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
15.016	OD249208/2022-2023			
	Providing and fixing following capacity TP&amp;N disconnector 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 &amp;N			
	Net Total	1.000no	@8839.85/no	8839.85
15.017	OD249216/2022-2023			
	Providing and fixing following capacity TP&amp;N disconnector fuse switch unit inside&lt;br&gt;the&lt;br&gt;existing panel board with ISI			

SI No	Specification	Quantity	Rate	Amount
	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&lt;br&gt;N			
	Net Total	2.000no	@7969.13/no	15938.26
15.018	OD249225/2022-2023 :Providing and fixing following capacity TP&lt;br&gt;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;125A TP&lt;br&gt;N			
	Net Total	1.000no	@8858.11/no	8858.11
15.019	OD249227/2022-2023 Supply, conveyance and fixing the following types &lt;br&gt; current rated control gears &lt;br&gt; switchgears&lt;br&gt;conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required.&lt;br&gt;125A,&lt;br&gt;35/36 kA (Ics=100%Icu), 3 pole, current limiting type MCCB with microprocessor based release with overload setting&lt;br&gt;of 50 - 100% having adjustable OL &lt;br&gt;SC			
	Net Total	1.000no	@12758.71/no	12758.71
15.020	OD249242/2022-2023 :Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &lt;br&gt;C&lt;br&gt;curve, miniature circuit&lt;br&gt;breaker suitable for inductive load of&lt;br&gt;following poles in the existing MCB DB complete with&lt;br&gt;connections,&lt;br&gt;testing and commissioning etc. as required.&lt;br&gt;Triple pole			
	Net Total	45.000no	@1092.32/no	49154.40
15.021	OD249246/2022-2023 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB&lt;br&gt;complete with connections, testing and commissioning etc. as required.&lt;br&gt;40 amps			
	Net Total	4.000no	@1109.91/no	4439.64
15.022	OD249256/2022-2023 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB&lt;br&gt;complete with connections, testing and commissioning etc. as			

SI No	Specification	Quantity	Rate	Amount
	required.&lt;br&gt;63 amps			
	Net Total	4.000no	@1109.91/no	4439.64
15.023	OD249258/2022-2023			
	Supply, conveyance and fixing the following types & current rated control gears & switchgears&lt;br&gt;conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required.&lt;br&gt;16 A-&lt;br&gt;100A, 16 kA (Ics=100%Icu), 3 pole, current limiting type MCCB having thermal setting range of 80 - 100% with&lt;br&gt;thermal magnetic release having adjustable OL			
	Net Total	1.000no	@3671.41/no	3671.41
15.024	OD249270/2022-2023			
	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;4 X 16 sq. mm + 2 X 6 sq. mm earth wire			
	Net Total	195.000no	@1251.45/no	244032.75
15.025	OD249274/2022-2023			
	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
15.026	OD249276/2022-2023			
	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
15.027	OD249354/2022-2023			
	: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.			

SI No	Specification	Quantity	Rate	Amount
	Net Total	76.000no	@194.45/no	14778.20
15.028	OD249378/2022-2023 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required			
	Net Total	20.000no	@198.42/no	3968.40
15.029	OD249385/2022-2023 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. 510 mm sweep			
	Net Total	10.000no	@607.20/no	6072.00
15.030	OD249386/2022-2023 Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. 100 A, 30kA, FPMCCB			
	Net Total	1.000no	@9759.00/no	9759.00
15.031	OD249436/2022-2023 :Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth Actual rate = 2440.62/no For avoiding CPOH 16% = 2440.62* .84 = 2050.12/no bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 12 way double door =2Nos			
	Net Total	1.000no	@2381.21/no	2381.21
15.032	OD249443/2022-2023 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper			

SI No	Specification	Quantity	Rate	Amount
	bus bar, neutral bus bar, earth bar,&lt;br&gt;din bar,&lt;br&gt;interconnections, powder painted including earthing etc.&lt;br&gt;as required. (But without MCB/RCCB/Isolator)&lt;br&gt;8 way double door			
	Net Total	1.000no	@2041.22/no	2041.22
15.033	OD249463/2022-2023			
	:Supplying and fixing following way, horizontal type three pole&lt;br&gt;and neutral, sheet steel, MCB&lt;br&gt;distribution board, 415 V, on&lt;br&gt;surface/ recess, complete with tinned copper bus bar, neutral&lt;br&gt;bus bar, earth bar,&lt;br&gt;din bar, interconnections, powder painted&lt;br&gt;including earthing etc. as required. (But without&lt;br&gt;MCB/RCCB/&lt;br&gt;Isolator)&lt;br&gt;8 way (4 + 24), Double door=3			
	Net Total	1.000no	@5336.45/no	5336.45
15.034	OD249464/2022-2023			
	:Supplying and fixing following way, horizontal type three pole&lt;br&gt;and neutral, sheet steel, MCB&lt;br&gt;distribution board, 415 V, on&lt;br&gt;surface/ recess, complete with tinned copper bus bar, neutral&lt;br&gt;bus bar, earth bar,&lt;br&gt;din bar, interconnections, powder painted&lt;br&gt;including earthing etc. as required. (But without&lt;br&gt;MCB/RCCB/&lt;br&gt;Isolator)&lt;br&gt;6 way (4 + 18), Double door			
	Net Total	2.000no	@4283.53/no	8567.06
15.035	OD249465/2022-2023			
	:Supplying and fixing of following ways surface/ recess mounting,&lt;br&gt;vertical type, 415 V, TPN MCB distribution board of sheet steel,&lt;br&gt;dust protected, duly powder painted, inclusive of 200 A, tinned&lt;br&gt;copper&lt;br&gt;bus bar, common neutral link, earth bar, din bar for&lt;br&gt;mounting MCBs (but without MCBs and incomer) as&lt;br&gt;required.&lt;br&gt;(Note : Vertical type MCB TPDB is normally used where 3 phase&lt;br&gt;outle4 way &lt;br&gt;8 way (4 + 24),&lt;br&gt;Double door=2&lt;br&gt;			
	Net Total	1.000no	@8982.48/no	8982.48

SI No	Specification	Quantity	Rate	Amount
15.036	OD249475/2022-2023 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
15.037	OD249476/2022-2023 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &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
15.038	OD249480/2022-2023 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, &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
15.039	OD249535/2022-2023 :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
15.040	OD249574/2022-2023 Supplying and fixing following rating, double pole, (single phase&lt;br&gt;and neutral), 240 V,			



SI No	Specification	Quantity	Rate	Amount
	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
15.041	OD249594/2022-2023			
	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
15.042	OD249601/2022-2023			
	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
15.043	OD249607/2022-2023			
	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
15.044	OD249616/2022-2023			
	Laying of one number additional PVC insulated and PVC&lt;br&gt;sheathed / XLPE power cable			

SI No	Specification	Quantity	Rate	Amount
	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
15.045	OD249636/2022-2023			
	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
15.046	OD249641/2022-2023			
	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
15.047	OD249645/2022-2023			
	Supply and providing imported vertical air terminal with 12 needdled nickel coated spike&lt;br&gt;receiver,supporting rod and stand icluding all accessories as required with possitive absorber(45 metre receiving&lt;br&gt;capacity),supply and laying required quantity of 25x3mm GI strip through epoxy resin cast support,down conductor&lt;br&gt;through wall,vertical run/through parapet,supply and installation of test joint box fabricated out of 16 SWG CRCA&lt;br&gt;sheets,supply and laying required quantity of 32x6mm GI strip through ground including earth work excavation back&lt;br&gt;filling and jointing etc complete.			
	Net Total	1.000no	@56588.28/no	56588.28
15.048	OD249654/2022-2023			
	Supply and fitting 1200mm sweep ceiling fan&lt;br&gt;with all accessories			

SI No	Specification	Quantity	Rate	Amount
	as required			
	Net Total	20.000no	@1756.19/no	35123.80
15.049	OD249657/2022-2023			
	Supply and fitting exhaust fan with all&lt;br&gt;accessories as required(Heavy duty)			
	Net Total	10.000no	@2244.02/no	22440.20
15.050	OD249663/2022-2023			
	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
15.051	OD249667/2022-2023			
	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
15.052	OD249675/2022-2023			
	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			
	Net Total	60.000metre	@380.51/metre	22830.60
15.053	OD249679/2022-2023			
	Supply conveyance ,installation testing and commissioning of36/40 W LED street/Yard light out put greater than105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumilled/Nichea with&lt;br&gt;powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium preasure die cast&lt;br&gt;powder coated housing acryliccover complete with THD less than 10% power factor greater than 0.98 ROHS&lt;br&gt;compliant duly wired up for use on 230v AC supply.Driver compartment should be separately accessible for&lt;br&gt;maintanance(LM 79&amp;80 Certificate from NABL acredited third party lab produced mentioning chip			
	Net Total	30.000no	@4367.06/no	131011.80
15.054	OD249683/2022-2023			
	Supply and laying 4x16sq.mm alluminium UG cable including excavation of trench and back			

SI No	Specification	Quantity	Rate	Amount
	filling pit			
	Net Total	80.000metre	@234.16/metre	18732.80
15.055	OD249690/2022-2023			
	Supply and providing the following safety items approved by Kerala Electrical&lt;br&gt;Inspectorate and relevant standards.11kv rubber mat=8set11kv rubber gloves=2 pair&lt;br&gt;11kv&lt;br&gt;danger board=10Nos 9ltre capacity fire bucket=3NosFirst aid box=2Nos.&lt;br&gt;shock treatment&lt;br&gt;chart=4set 5kg fire estingusher=12 Nos			
	Net Total	1.000set	@102095.85/set	102095.85
15.056	OD253942/2022-2023			
	Expenses of getting electrical connection from KSEB including documentation fee, service charges, energization charges etc			
	Net Total	1.000job	@19977.80/job	19977.80
			<b>Heading Total(Rs)</b>	1891023.28
			<b>Total Estimation PAC</b>	69575005.17
<b>17</b>	<b>Extra Charges</b>			
16.001	Provision for GST			
		69575005.17	18.00%	12523500.93
			<b>Grand Total</b>	82098506.10
			<b>Round off</b>	1493.90
			<b>Rounded Total(Rs)</b>	82100000.00
	Rupees Eight Crore Twenty One Lakh			