## **ABSTRACT ESTIMATE**

<u>Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part)</u>

<u>Panchayaths in Idukki District-Package IV- Clear Water Pumping Main, Sump cum pump house,</u>

<u>GLSR in Santhanpara GP-General Civil Work</u>

Sl No	Specification	Quantity	Rate	Amount
1	Supply and laying Clear water pu	ımping main-C	Cost of materials	
1.001	100.98.118			
	Supply of DI K9 Pipe Conforming	to IS 8329/2000	, 250mm Dia.	
	Net Total	5435.000metr e	@3616.52/metre	19655786.2 0
1.002	100.98.117			
	Supply of DI K9 Pipe Conforming	to IS 8329/2000	, 200mm Dia.	
	Net Total	4137.000metr e	@2589.09/metre	10711065.3 3
1.003	100.98.116	- Service		
	Supply of DI K9 Pipe Conforming	to I <mark>S 832</mark> 9/2000	, 150mm Dia.	
	Net Total	98 <mark>86.00</mark> 0metr e	@1890.46/metre	18689087.5 6
1.004	100.98.115	BLIC WORKS		
	Supply of DI K9 Pipe Conforming	to IS 8329/2000	, 100mm Dia.	
	Net Total	1085.000metr e	@1257.56/metre	1364452.60
1.005	100.98.441			
	Supply of CI Air Valve, Conformin Orifice Type S1, Size 40mm.	g to IS 14848 -	2000, Single Orifice	e, Small
	Net Total	20.000no	@6110.65/no	122213.00
1.006	100.98.440			
	Supply of CI Air Valve, Conformin Orifice Type S1, Size 25mm.	g to IS 14848 -	2000, Single Orifice	e, Small
	Net Total	22.000no	@5636.76/no	124008.72
1.007	100.98.458			
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.			
	Net Total	1.000no	@9003.95/no	9003.95
1.008	100.98.460			
	Supply of CI Double Flanged Sluic Valve with Cap PN 1.6, Size 150m		ming to IS 14846 - 2	000, Sluice
	Net Total	3.000no	@13396.74/no	40190.22

Sl No	Specification	Quantity	Rate	Amount
1.009	100.98.461			
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 200mr		ming to IS 14846 - 2	000, Sluice
	Net Total	2.000no	@23723.64/no	47447.28
1.010	100.98.462			
	Supply of CI Double Flanged Sluice Valve with Cap PN 1.6, Size 250mr		ming to IS 14846 - 2	000, Sluice
	Net Total	1.000no	@34361.82/no	34361.82
			Heading Total(Rs)	50797616.6 8
2	Supply and laying Clear water pu	mping main-V	Vorking charges	
2.001	100.1.1			
	Excavating trenches of required widesockets, and dressing of sides, ramn getting out the excavated soil, and the exceeding 20cm in depth, including watering, etc., and disposing of surp 50m, in all kinds of soil.	ning of bottoms hen returning the consolidating of	s, depth up to 1.5m, in the soil as required, in each deposited layer	ncluding layers not by ramming,
	Net Total	1 <mark>2163.</mark> 350cu m	@579.88/cum	7053283.40
2.002	100.1.5	FORM FOR THE	MANAGEMENT	
	Excavating trenches of required wide sockets, and dressing of sides, ramn getting out the excavated soil, and the exceeding 20cm in depth, including watering, etc., and disposing of surpm, in Ordinary Rock.	ning of bottoms hen returning the consolidating of	s, depth up to 1.5m, in the soil as required, in each deposited layer	ncluding layers not by ramming,
	Net Total	2432.670cum	@842.08/cum	2048502.75
2.003	100.2.2			
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited.			
2.004	Net Total 100.1.13	810.890cum	@1106.31/cum	897095.72
2.004	Excavating trenches of required widesockets, and dressing of sides, raming getting out the excavated soil, and the exceeding 20cm in depth, including watering, etc., and disposing of surp 50m, in Hard Rock where Blasting in Net Total	ning of bottoms hen returning the consolidating e blus excavated s	s, depth up to 1.5m, in the soil as required, in each deposited layer	ncluding layers not by ramming,
2.005	100.8.1	510.070 <b>v</b> 6III	2 2 2 // <b>C</b>	101.200.10
2.000	Fencing one side of trenches, 1.50m tape in vertical casuarina pole (girth			

Sl No	Specification	Quantity	Rate	Amount
	Net Total	20341.000met re	@28.84/metre	586634.44
2.006	100.59.1			
	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.			
	Net Total	1850.000metr e	@31.77/metre	58774.50
2.007	15.59			
	Dismantling of flexible pavement (disposal of dismantled material up tengineer-in-charge.			
	Net Total	222.000cum	@394.70/cum	87623.40
2.008	15.2.1			
	Demolishing cement concrete manumaterial within 50 metres lead as perconcrete 1:3:6 or richer mix (i/c equ	er d <mark>irectio</mark> n of E	Engineer - in-Charge.	
	Net Total	76.500cum	@2134.74/cum	163307.61
2.009	Conveying and laying S&S Centrift to IS: 8329 excluding cost of pipes K-9 Pipes.  Net Total	and specials: 10		
2.010	10.20.2	e		
2.010	Providing flanged joints to double f testing of joints:100 mm diameter p		pipes and specials,	including
	Net Total	10.000no	@325.59/no	3255.90
2.011	18.70.1			
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:100 mm dia pipes			
	Net Total	210.000joint	@112.62/joint	23650.20
2.012	OD126000/2022-2023			
	Labour for cutting DI pipe with stee	el saw 100 mm	diameter of DI Pipe	
	Net Total	10.000Each Cut	@179.40/Each Cut	1794.00
2.013	100.35.1			

Sl No	Specification	Quantity	Rate	Amount
	Testing 100mm DI/CI pipeline with 100 mm dia	n potable water	to the required test p	ressure
	Net Total	1105.000metr e	@24.36/metre	26917.80
2.014	100.14.2			
	Conveying and laying S&S Centrift to IS: 8329 excluding cost of pipes K-9 Pipes.			
	Net Total	9720.000metr e	@91.51/metre	889477.20
2.015	18.30.4			
	Providing flanged joints to double f testing of joints:150 mm diameter p		pipes and specials, i	including
	Net Total	15.000no	@402.30/no	6034.50
2.016	18.70.2	AN		
	Providing push - on-joints to Centri Pipes including testing of joints and pipes	fugally (Spun) (I including the c	Cast Iron Pipes or Do	uctile Iron 150 mm dia
	Net Total	1788.0 <mark>0</mark> 0joint	@184.10/joint	329170.80
2.017	OD126003/2022-2023			
	Labour for cutting Ductile Iron pipe	e with steel saw.	.150 mm diameter D	uctile Iron.
	Net Total	40.000no	@337.10/no	13484.00
2.018	100.35.2			
	Testing 150mm DI/CI pipeline with 150 mm dia Observed Data derived from item n	•	1 1	ressure
		9720.000metr e		319399.20
2.019	100.14.3			
	Conveying and laying S&S Centrift to IS: 8329 excluding cost of pipes K-9 Pipes.			
	Net Total	4109.000metr e	@127.49/metre	523856.41
2.020	18.30.5			
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe			
	Net Total	15.000no	@436.82/no	6552.30
2.021	18.70.3			
	Providing push - on-joints to Centri Pipes including testing of joints and			

Sl No	Specification	Quantity	Rate	Amount
	pipes			
	Net Total	760.000joint	@270.11/joint	205283.60
2.022	OD126002/2022-2023			
	Labour for cutting DI pipe with stee			
	Net Total	26.000Each Cut	@449.61/Each Cut	11689.86
2.023	100.35.3			
	Testing 200mm DI/CI pipeline with 200 mm dia Observed Data derived from item n	•		ressure
	Net Total	4109.000metr e	@41.66/metre	171180.94
2.024	100.14.4			
	Conveying and laying S&S Centrift to IS: 8329 excluding cost of pipes K-9 Pipes.			
	Net Total	5407.000metr e	@170.23/metre	920433.61
2.025	18.30.6			
	Providing flanged joints to double f testing of joints:250 mm diameter p		pipes and specials, i	ncluding
	Net Total	7.000no	@595.56/no	4168.92
2.026	18.70.4			
	Providing push - on-joints to Centri Pipes including testing of joints and pipes			
	Net Total	990.000joint	@329.85/joint	326551.50
2.027	OD142449/2022-2023			
	Labour for cutting DI pipe with stee	el saw 250 mm	diameter DI Pipe	
	Net Total	20.000Each Cut	@559.11/Each Cut	11182.20
2.028	100.35.4			
	Testing 250mm DI/CI pipeline with potable water to the required test pressure . 250 mm dia Observed Data derived from item no.1022 of PHED DATA			
	Net Total	5407.000metr	@53.00/metre	286571.00
2.029	100.37.5.1			
	In situ fabrication of M.S. pipes of sincluding cost and conveyance char of painting the steel work with two even shade over an under-coat of processing the steel work.	ges of M.S. pla or more coat de	te, all fabrication cha cluxe multi surface pa	rges, charges

Sl No	Specification	Quantity	Rate	Amount
	Net Total	48.000metre	@4182.35/metre	200752.80
2.030	100.37.5.2			
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of present thick M.S. plates.	S. plate, all fabr more coat delux	ication charges, char se multi surface pain	ges of t to give an
	Net Total	20.000no	@1161.73/no	23234.60
2.031	100.37.5.3			
	Cutting 100mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	hire charges of		
	Net Total	24.000no	@119.81/no	2875.44
2.032	100.37.5.4			
	Welding 100mm (I.D.) M.S. pipes for welding machine including cost of gof tools etc., complete: For pipes fall	gas and welding	grods, all labour and	hire charges
	Net Total	24.000no	@452.90/no	10869.60
2.033	100.37.5.5	3-11		
	Grinding cut and weld edges of 100 including all labour and hire charge 8mm thick M.S. plates.			
	Net Total	48.000no	@85.07/no	4083.36
2.034	100.37.6.1			
	In situ fabrication of M.S. pipes of sincluding cost and conveyance char of painting the steel work with two even shade over an under-coat of pr	ges of M.S. pla or more coat de	te, all fabrication cha luxe multi surface pa	rges, charges
	Net Total	80.000metre	@5174.49/metre	413959.20
2.035	100.37.6.2			
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of program thick M.S. plates.	S. plate, all fabr more coat delux	ication charges, char se multi surface pain	ges of t to give an
	Net Total	30.000no	@1544.03/no	46320.90
2.036	100.37.6.3			
	Cutting 150mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	hire charges of	and other specials b tools etc., complete	y gas cutting : For pipes
	Net Total	40.000no	@171.45/no	6858.00
2.037	100.37.6.4			

Sl No	Specification	Quantity	Rate	Amount	
	Welding 150mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.				
	Net Total	40.000no	@648.09/no	25923.60	
2.038	100.37.6.5				
	Grinding cut and weld edges of 150 including all labour and hire charge 8mm thick M.S. plates.	mm (I.D.) M.S. s of tools etc., c	pipes during fabrica complete: For pipes f	ation work abricated with	
	Net Total	80.000no	@121.73/no	9738.40	
2.039	100.37.7.1				
	In situ fabrication of M.S. pipes of sincluding cost and conveyance char of painting the steel work with two even shade over an under-coat of processing the steel work.	ges of M.S. pla or more coat de	te, all fabrication cha luxe multi surface pa	arges, charges	
	Net Total	72.000metre	@6165.53/metre	443918.16	
2.040	100.37.7.2				
	Fabricating M.S. flanges of diameter cost and conveyance charges of M.S. painting the steel work with two or even shade over an under-coat of program thick M.S. plates.	S. plate, all fabr more coat delux	ication charges, char se multi surface pain	ges of t to give an	
	Net Total	30.000no	@2081.10/no	62433.00	
2.041	100.37.7.3				
	Cutting 200mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	hire charges of			
	Net Total	36.000no	@223.11/no	8031.96	
2.042	100.37.7.4				
	Welding 200mm (I.D.) M.S. pipes for welding machine including cost of tools etc., complete: For pipes fa	gas and welding	grods, all labour and	hire charges	
	Net Total	36.000no	@843.32/no	30359.52	
2.043	100.37.7.5				
	Grinding cut and weld edges of 200 including all labour and hire charge 8mm thick M.S. plates.				
	Net Total	72.000no	@158.40/no	11404.80	
2.044	100.37.8.1				
	In situ fabrication of M.S. pipes of sincluding cost and conveyance char of painting the steel work with two even shade over an under-coat of process.	ges of M.S. pla or more coat de	te, all fabrication cha luxe multi surface pa	arges, charges	
	Net Total	40.000metre	@7163.12/metre	286524.80	

Sl No	Specification	Quantity	Rate	Amount	
2.045	100.37.8.2				
	Fabricating M.S. flanges of diameter 250mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.				
	Net Total	14.000no	@2555.47/no	35776.58	
2.046	100.37.8.3				
	Cutting 250mm (I.D.) M.S. pipes for including cost of gas, all labour and fabricated with 8mm thick M.S. pla	hire charges of			
	Net Total	18.000no	@274.74/no	4945.32	
2.047	100.37.8.4				
	Welding 250mm (I.D.) M.S. pipes fa welding machine including cost of of tools etc., complete: For pipes fa	gas and welding	g rods, all labour and	hire charges	
	Net Total	18.000no	@1038.53/no	18693.54	
2.048	100.37.8.5	A STANSON			
	Grinding cut and weld edges of 250 including all labour and hire charge 8mm thick M.S. plates.				
	Net Total	36.000no	@195.07/no	7022.52	
2.049	18.68.1				
	Providing and laying D.I specials of IS: 9523:Upt 600 mm dia	f class K - 12 su	iitable for push - on j	jointing as per	
	Net Total	53.190quintal	@21003.05/quint al	1117152.23	
2.050	18.69.1				
	Providing and laying D.I Specials oper IS: 9523: Upto 600 mm dia	f Class K - 12 s	suitable for mechanic	cal jointing as	
	Net Total	9.570quintal	@22071.58/quint al	211225.02	
2.051	100.31.1.4				
	Conveying and fixing C.I. sluice vainsertions etc., complete, but excluding will be paid separately): 150mm dia	ling the cost of			
	Net Total	3.000no	@1253.32/no	3759.96	
2.052	100.31.1.2				
	Conveying and fixing C.I. sluice vainsertions etc., complete, but excluding will be paid separately): 100mm dia	ling the cost of	by providing bolts, r the valve (tail pieces	nuts, rubber , if required,	
	Net Total	1.000no	@925.37/no	925.37	

Sl No	Specification	Quantity	Rate	Amount	
2.053	100.31.1.5				
	Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 200mm diameter, Class I.				
	Net Total	2.000no	@1625.85/no	3251.70	
2.054	100.31.1.6				
	Conveying and fixing C.I. sluice vainsertions etc., complete, but excluding will be paid separately): 250mm dia	ling the cost of			
	Net Total	1.000no	@2304.80/no	2304.80	
2.055	100.32.1				
	Conveying and fixing C. I. Single A nuts, rubber insertions etc., complet if required, will be paid separately):	e, but excluding	g the cost of air valve		
	Net Total	22.000no	@146.63/no	3225.86	
2.056	100.32.2	KOAL			
	Conveying and fixing C. I. Single A nuts, rubber insertions etc., complet if required, will be paid separately):	e, but excluding	g the cost of air valve		
	Net Total	20.000no	@184.44/no	3688.80	
2.057	Earth work in excavation by mecha over areas (exceeding 30 cm in dep including disposal of excavated earth earth to be levelled and neatly dress	th, 1.5 m in wid th, lead up to 50	ydraulic excavator)/r lth as well as 10 sqm ) m and lift up to 1.5	on plan)	
	Net Total	26.880cum	@223.41/cum	6005.26	
2.058	4.1.3	20.00000	@ 225.41/cum	0003.20	
2.030	Providing and laying in position cercost of centering and shuttering - A sand (zone-III) : 4 graded stone agg  Net Total	ll work up to pl	inth level:1:2:4 (cem nominal size)		
2.050		44.992cuiii	@6340.91/Culli	313214.22	
2.059	Providing and laying in position spectruding the cost of centering, shu to plinth level:1:1:5:3 (1 cement 1.5 nominal size	ttering, finishin	g and reinforcement	- All work up	
	Net Total	15.051cum	@9483.13/cum	142730.59	
2.060					
	Steel reinforcement for R.C.C work in position and binding all complete				
	Net Total	2343.060kilo gram	@102.61/kilogra m	240421.39	

Sl No	Specification	Quantity	Rate	Amount
2.061	5.9.2			
	Centering and shuttering including thickness) including attached pilaste			
	Net Total	358.000sqm	@748.62/sqm	268005.96
2.062	5.9.3			
	Centering and shuttering including floors, roofs, landings, balconies an			or:Suspended
	Net Total	26.250sqm	@851.49/sqm	22351.61
			Heading Total(Rs)	20415038.1 1
3	Construction of 0.5 LL Capacity s	steel storage ta	nk Near Magna Pea	ak
3.001	2.31			
	Clearing jungle including uprooting saplings of girth up to 30 cm measu removal of rubbish up to a distance	red at a height	of 1 m above ground	level and
	Net Total	36.000sqm	@15.40/sqm	554.40
3.002	2.6.1	A STANCE		
	Earth work in excavation by mecha over areas (exceeding 30 cm in dep including disposal of excavated earth earth to be levelled and neatly dress	th, <mark>1.5 m</mark> in wid th, lead up to 50	th as well as 10 sqm of m and lift up to 1.5	on plan)
	Net Total	24.403cum	@223.41/cum	5451.87
3.003	4.1.8			
	Providing and laying in position cer cost of centering and shuttering - Al coarse sand : 8 graded stone aggreg	ll work up to pl	inth level:1:4:8 (1 ce	
	Net Total	3.701cum	@7113.43/cum	26326.80
3.004	5.2.2			
	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)			
	Net Total	3.087cum	@11433.90/cum	35296.45
3.005	5.9.3			
	Centering and shuttering including floors, roofs, landings, balconies an			or:Suspended
	Net Total	13.720sqm	@851.49/sqm	11682.44
3.006	5.22.6			
	Steel reinforcement for R.C.C work in position and binding all complete bars of grade Fe-500D or more	including strai upto plinth lev	ghtening, cutting, ber relThermo - Mechani	nding, placing cally Treated

Sl No	Specification	Quantity	Rate	Amount	
	Net Total	370.440kilogr am	@102.61/kilogra m	38010.85	
3.007	7 2.25				
	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.				
	Net Total	4.568cum	@269.88/cum	1232.81	
3.008	OD104336/2022-2023				
	Supply of Sand including loading, ucharges as per the direction of departmental office		portation and other is	ncidental	
	Net Total	2.284cum	@1882.79/cum	4300.29	
3.009	OD104335/2022-2023				
	Supply,installation and commission manufactured steel storage Water T thickness of 0.6 mm, in multiple layers as required for multiplelayered PE sheet/membrane for the inner company amp; amp; the Liner material shall be manufactured in a 2000 standards. The Tank shall be supplicated outlets, drains and fittings, overflow and drain, high to the tanks shall be with flanged or thread TANK ROOF: The roof of the tank shall be of corwith heavy- duty Hot-dip Galvanized trustomaterial, to prevent ingress of dust to the top edge of the tank with galvanized bowith Hotdip Galvanized ladders internally or exappropriately designed Hot-dip galvanized with relevant spill layer air gap and overflow read air gap and overflow read air gap and overflow read air gap a	Cank having a call for the capacity ontainment liner facility certified ed with access put and low water ded nozzles, plant rugated Galvalutes frame for supank shall have a COVER: Tank das shall be fitted and foreign objects and nuts. Letternally, Externativanized Steel coefficients	and height of the tand. The Tank Shell / Bold and compliant to IS points, penetrations for level indicators. All ced to the KWA water me sheet steel and so poort, and capable of an access hatch with a covers shall be of apid with suitable verminents. Covers shall be aDDERS: Tanks shall roof supports shall postruction. Tanks shall anstruction. Tanks shall and the covers shall be and the covers shall be appeared to the covers shall be appeared	Nos.) k and ody SO 9001 - for inlets, ll connections ter mains hall be domed, supporting 4- cover, on the proved in-proofing firmly fixed ll be provided be of an all comply	
	tape or other material, to prevent ingress of dust to the top edge of the tank with galvanized bo with Hotdip Galvanized ladders internally or exappropriately designed Hot-dip galvanized.	and foreign objoints and nuts. LA ternally. Externational steel co	ects. Covers shall be ADDERS: Tanks shall roof supports shall onstruction. Tanks sh	firmly fixed  If the provided  the of an all comply	

Sl No	Specification	Quantity	Rate	Amount	
	used for the panels shall be a minim	num of 12mm si	ze and hot-dip galva	nized/Case	
	hardened.				
	The tank shall have a circular angle fixed around the total circumference of the tanks,				
	at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water				
	prior to being	s shan be proper	ity mushed out with t	cicuii watei	
	brought into service TANK DIMEN	NSIONS: The di	mensions of the Tan	k shall be of	
	4.855m in				
	diameter and 2.9m in height DESIG	3N LIFE: The ta	inks shall have a desi	ign life of 40	
	years. TANK CONNECTIONS: Standard	decian valve or	utlet connection : i) S	Suitable size	
	CI	design varve of	itiet connection . 1) b	ditable size	
	Flanged valve				
	ii) Overflow connection including a	n Internal appro	oved bell-mouth shap	ped bends to	
	maximize	*** 0 (1	1 ' 1 '	1 .01	
	the overflow capacity. One no. 100 of the	mm, 111) One (1	) scour drain outlet i	rom the Hoor	
	tank with isolation valve. One No. 1	100mm.TANK 1	LINERS:Tank liners	shall be	
	purposedesigned and shall comply	to AS/NZS 403	20 (Appendix A )of 3	2005 and	
	ANSI/NSF 61 - 2008, Section 5 Cer				
	be furnished by the manufacturer of				
	manufactured to onepiece			1 + 1 +	
	construction, fabricated from multi- water,	layer PE sheet,	certified for potable	drinking	
		FORM FOR THE	MANAGEMENT		
	(ANSI/ NSF 61) and duly UV Stabi construction			multi-layer	
1	for strength, reinforced with woven	scrim industria	l fabric to prevent ele	ongation and	
	enhance tensile strength. The total liner mate	rial thickness sl	hall he no less than (	) 6 mm thick	
	The tensile				
	strength shall not be less than 2266 strength of	N (warp) and 24	495 N (weft) and hea	at sealing	
1	2056 N v) All the liner welded lap j	oints shall be st	rengthened with Met	tallocene	
	encapsulating tape welded over the overlap. vi) The	ne Metallocene	tape shall cover and	protect the	
	exposed		-	-	
	material at the edges of the liner join scrim. vii)	nts to further pr	event the ingress of	water into the	
	Liners shall be positively and conting	nuously attached	d to the top outer edg	e of the	
	circumference	<i>-</i>		,	
	of the tank to prevent entry of water	from the runof	f from the roof struc	ture. viii) All	
	liners on	. continuous int	amadiata linan ayan	out designed	
	tanks over 2m in height shall have a out of nylon	i continuous inte	ermediate imer suppo	ort designed	
	(or other material)cord, around the	circumference o	f the tank, at vertical	l intervals	
	corresponding	armadiata lina	cupport cords shall b	a firmly	
	to the level of each ring. ix) The intersecured to the	ermediate imer	support cords shall b	e muny	
	steel shell at each level, to prevent s	stress on the line	er welded joints, and	thereby	
	eliminate possibility of failure CORROSSION	N PROTECTIO	N. The tank structure	e shall have a	

3.010 OD104686/2022-2023  Dowel bars - 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 (.5kg/each) etc  Net Total 38.000no @901.25/no 34247.50  Heading Total(Rs) 989603.41  4 Construction of 2.6LL Capacity steel storage tank at Thondimala  4.001 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 121.000sqm @15.40/sqm 1863.40  4.002 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	Sl No	Specification	Quantity	Rate	Amount
Net Total   50000.000Litr   @ 16.65/Litre   832500.00  3.010   OD104686/2022-2023   Dowel bars - 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 (.5kg/each) etc    Net Total   38.000no   @ 901.25/no   34247.50		corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shel l,Steel wall,steel domed roof,Zinc Alum steel&39;,Cost for Poly ethylene infinity liner ,Geo synthetic Fibre with food grade plastics are used for inside coating and Support Arrangements,Cost for Fabricated items,attachments and accessories like steel ladder,Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut and			
Dowel bars - 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 (.5kg/each) etc  Net Total 38.000no @901.25/no 34247.50  Heading Total(Rs) 989603.41  4 Construction of 2.6LL Capacity steel storage tank at Thondimala  4.001  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 121.000sqm @15.40/sqm 1863.40  4.002  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 180.690sqm @113.73/sqm 20549.87  4.003  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		()	28 60 N. 13		832500.00
Dowel bars - 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 (.5kg/each) etc  Net Total 38.000no @901.25/no 34247.50  Heading Total(Rs) 989603.41  4 Construction of 2.6LL Capacity steel storage tank at Thondimala  4.001  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 121.000sqm @15.40/sqm 1863.40  4.002  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 180.690sqm @113.73/sqm 20549.87  4.003  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	3.010	OD104686/2022-2023			
4.001 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 121.000sqm @15.40/sqm 1863.40  4.002 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 180.690sqm @113.73/sqm 20549.87  4.003 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		(1m in rock and 1m in concrete) inc	luding drilling		
4.001 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 121.000sqm @15.40/sqm 1863.40  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 180.690sqm @113.73/sqm 20549.87  4.003 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		Net Total	38.000no	@901.25/no	34247.50
4.001 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 121.000sqm @15.40/sqm 1863.40  4.002 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 180.690sqm @113.73/sqm 20549.87  4.003 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				<b>Heading Total(Rs)</b>	989603.41
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 121.000sqm @15.40/sqm 1863.40  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 180.690sqm @113.73/sqm 20549.87  4.003  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	4	Construction of 2.6LL Capacity s	steel storage ta	nk at Thondimala	
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 180.690sqm @113.73/sqm 20549.87  4.003 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	4.001	Clearing jungle including uprooting saplings of girth up to 30 cm measu removal of rubbish up to a distance	red at a height of 50 m outside	of 1 m above ground the periphery of the	level and
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 180.690sqm @113.73/sqm 20549.87  4.003 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	4.002	2.1.1			
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		width as well as 10 sqm on plan inclift up to 1.5 m, disposed soil to be	luding disposal evelled and nea	of excavated earth u atly dressed:All Kind	p to 50 m and
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	4.003	2.7.3			
		over areas (exceeding 30 cm in deptincluding disposal of excavated eart	th, 1.5 m in wid th, lead up to 50	on the street in the lift as well as 10 sqm on the lift up to 1.5	on plan)
Net Total         21.000cum         @1248.59/cum         26220.39		earth to be levelled and neatly dress	eu.maru nock (t	plasting promotied)	
4.004   4.1.3					26220.39

Sl No	Specification	Quantity	Rate	Amount
	Providing and laying in position cercost of centering and shuttering - A sand (zone-III) : 4 graded stone agg	ll work up to pli	inth level:1:2:4 (cemo	luding the ent: 2 coarse
	Net Total	11.938cum	@8340.91/cum	99573.78
4.005	5.1.2			
	Providing and laying in position specked excluding the cost of centering, shu to plinth level:1:1:5:3 (1 cement 1.5 nominal size	ttering, finishin	g and reinforcement	- All work up
	Net Total	5.557cum	@9483.13/cum	52697.75
4.006	5.9.1			
	Centering and shuttering including for:Foundations, footings, bases of			
	Net Total	24.696sqm	@350.00/sqm	8643.60
4.007	5.22.6	111	_	
	Steel reinforcement for R.C.C work in position and binding all complete bars of grade Fe-500D or more	including straig upto plinth lev	ghtening, cutting, ber elThermo - Mechani	nding, placing cally Treated
	Net Total	666.84 <mark>0</mark> kilogr am	@102.61/kilogra m	68424.45
4.008	2.25	FORM FOR THE	MANAGEMENT	
	Filling available excavated earth (exfoundation etc. in layers not exceed layer by ramming and watering, lea	ing 20 cm in de	pth, consolidating ea	
	Net Total	16.146cum	@269.88/cum	4357.48
4.009	OD104428/2022-2023			
	Supply of Sand including loading, ucharges as per the direction of departmental officer		portation and other in	ncidental
	Net Total	8.073cum	@1882.79/cum	15199.76
4.010	OD104440/2022-2023			
	Supply, installation and commission manufactured steel storage Water T thickness of 0.6 mm, in multiple layers as required f multiplelayered PE sheet/membrane for the inner couthe Liner material shall be manufactured in a 2000 standards. The Tank shall be supplied outlets, drains and fittings, overflow and drain, highto the	ank having a call for the capacity entainment liner facility certified and with access p	pacity of 260000 L(1 and height of the tank . The Tank Shell / Bo d and compliant to IS points, penetrations for	Nos.) k and ody O 9001 - or inlets,

Sl No	Specification	Quantity	Rate	Amount
	TANK ROOF			
	:The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with			
	heavy- duty Hot-dip Galvanized tru	ss frame for sup	pport, and capable of	supporting 4-
	persons for maintenance and cleaning and ta	ank shall have a	n access hatch with o	cover, on the
	roof, for operation and Maintenance TANK	COVER :Tank	covers shall be of ap	proved
	galvanized		•	•
	vermin proof construction. Roof entape or other	us shan be milet	i with suitable verim	n-prooring
	material, to prevent ingress of dust to	and foreign obje	ects. Covers shall be	firmly fixed
	the top edge of the tank with galvanized bo	lts and nuts. I. A	DDEDC Toples shall	l ha providad
	with Hotdip			-
	Galvanized ladders internally or ext appropriately designed Hot-dip galv			
	with relevant spill level, air gap and overflow req and bolts	uirements relati	ve to Effective Capa	city. All nuts
	used for the panels shall be a minim hardened.	num of 12mm si	ze and hot-dip galva	nized/Case
	The tank shall have a circular angle at the top,			e of the tanks,
	of minimum 2 mm thickness. Tanks	s shall be proper		clean water
	brought into service TANK DIMEN 8.739m in	NSIONS: The di	mensions of the Tan	k shall be of
	diameter and 4.3m in height DESIC	SN LIFE: The ta	nks shall have a desi	ign life of 40
	years. TANK CONNECTIONS: Standard Flanged valve	design valve ou	itlet connection: i) S	uitable CI
	ii) Overflow connection including a	n Internal appro	oved bell-mouth shap	ped bends to
	maximize the overflow capacity. One no. 100	mm, iii) One (1	) scour drain outlet f	rom the floor
	of the tank with isolation valve. One No. 1 purposedesigned	100mm.TANK	LINERS:Tank liners	shall be
	and manufactured and shall comply ANSI/NSF 61 - 2008, Section 5 Cebe furnished by the manufacturer of	rtificates of com	pliance to above star	ndards shall
	manufactured to onepiece construction, fabricated from multiwater,	layer PE sheet,	certified for potable	drinking
	to (ANSI/ NSF 61) and duly UV Stabi construction	llized. ii) Be of	PE (polyethylene) in	multi-layer
	for strength, reinforced with woven enhance	scrim industria	l fabric to prevent ele	ongation and
	tensile strength. The total liner mate The tensile	erial thickness s	hall be no less than 0	0.6 mm thick.

Sl No	Specification	Quantity	Rate	Amount	
	strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing				
	strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene				
	encapsulating				
	tape welded over the overlap. vi) The Metallocene tape shall cover and protect the				
	exposed material at the edges of the liner joints to further prevent the ingress of water into the				
	scrim. vii)	_	_		
	Liners shall be positively and continuing circumference	nuously attached	d to the top outer edg	ge of the	
	of the tank to prevent entry of water	from the runof	f from the roof struc	ture. viii) All	
	liners on			,	
	tanks over 2m in height shall have a out of nylon	continuous int	ermediate liner supp	ort designed	
	(or other material)cord, around the	circumference o	of the tank, at vertica	l intervals	
	corresponding				
	to the level of each ring. ix) The intersecured to the	ermediate liner	support cords shall b	e firmly	
	steel shell at each level, to prevent s	stress on the line	er welded joints, and	thereby	
	eliminate	ALD OF	_	-	
	possibility of failure CORROSSION secondary	N PROTECTIO	N. The tank structure	e shall have a	
	corrosion protection system using sa	acr <mark>ificial</mark> magne	esium anodes. The nu	umber of	
	anodes, their				
	location around the tank and the ma replacement	ss of each anod		or anode	
	frequency of five years. The anodes			ık and	
	concrete				
	apron with their location marked with a su	uitably label-Co	st for Tank steel witl	n 10vears	
	guarantee	intably label co	st for runk steel with	i Toyears	
	includes shel l,Steel wall,steel dome	ed roof,Zinc Alı	um steel&3	39;,Cost for	
	Poly ethylene infinity				
	liner, Geo synthetic Fibre with food	grade plastics	are used for inside co	oating and	
	Support Arrangements, Cost for Fab	ricated items, at	tachments and acces	sories like	
	steel ladder,Cost of				
	Fabricated nozzles, over flow nozzle				
	bolts, Freight Charges, Erection Installation and commissioning of tank components.				
	Net Total	260000.000Li tre	@7.06/Litre	1835600.00	
4.011	OD105221/2022-2023	пс			
	Dowel bars - 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 (.5kg/each) e				
	Net Total	60.000no	@901.25/no	54075.00	
			Heading Total(Rs)	2187205.48	
5	5 Construction of 2.9LL Steel storage tank at Puthadi Top				

Sl No	Specification	Quantity	Rate	Amount	
5.001	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	271.220sqm	@113.73/sqm	30845.85	
5.002	4.1.3				
	Providing and laying in position cer cost of centering and shuttering - Al sand (zone-III) : 4 graded stone agg	ll work up to pli	inth level:1:2:4 (cem		
	Net Total	15.987cum	@8340.91/cum	133346.13	
5.003	5.1.2				
	Providing and laying in position specked excluding the cost of centering, shu to plinth level:1:1:5:3 (1 cement 1.5 nominal size	ttering, finishin	g and reinforcement	- All work up	
	Net Total	7.409cum	@9483.13/cum	70260.51	
5.004	5.9.1	167,877			
	Centering and shuttering including for:Foundations, footings, bases of				
	Net Total	32.928sqm	@350.00/sqm	11524.80	
5.005	5.22.6	FORM FOR THE	MANAGEMENT		
	Steel reinforcement for R.C.C work in position and binding all complete bars of grade Fe-500D or more				
	Net Total	889.080kilogr am	@102.61/kilogra m	91228.50	
5.006	2.25				
	Filling available excavated earth (exfoundation etc. in layers not exceed layer by ramming and watering, lea	ing 20 cm in de	pth, consolidating ea	des of ch deposited	
	Net Total	29.552cum	@269.88/cum	7975.49	
5.007	OD104269/2022-2023				
	Supply of Sand including loading, unloading, transportation and other incidental charges as per the direction of departmental officers.1				
	Net Total	14.776cum	@1882.79/cum	27820.11	
5.008	OD104268/2022-2023				
	Supply,installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 2.9 LL(1Nos.) thickness of 0.6 mm, in multiple layers as required for the capacity and height of the tank and multiplelayered PE sheet/membrane for the inner containment liner. The Tank Shell / Body				

Sl No	Specification	Quantity	Rate	Amount	
	& material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections				
	to the tanks shall be with flanged or thread TANK ROOF: The roof of the tank shall be of corwith	led nozzles, pla	aced to the KWA wat	ter mains	
	heavy- duty Hot-dip Galvanized tru 5 persons for maintenance and cleaning and ta roof, for operation and Maintenance TANK	ank shall have a	n access hatch with o	cover, on the	
	galvanized vermin proof construction. Roof end tape or other material, to prevent ingress of dust a to the top	A O ALL		1 0	
	edge of the tank with galvanized bo with Hot dip Galvanized ladders internally or ext appropriately designed Hot-dip galv with relevant	ernally. Externa	al roof supports shall	be of an	
	spill level, air gap and overflow req and bolts used for the panels shall be a minim hardened. The tank shall have a circular angle	num of 12mm si	ze and hot-dip galva	nized/Case	
	at the top, of minimum 2 mm thickness. Tanks prior to being brought into service TANK DIMEN 11.652m in diameter and 2.9m in he design life of 40	ISIONS: The di	imensions of the Tan	ık shall be of	
	years. TANK CONNECTIONS: Standard Flanged valve ii) Overflow connection including a maximize the overflow capacity. One no. 100	n Internal appro	oved bell-mouth shap	ped bends to	
	of the tank with isolation valve. One No. 1 purposedesigned and manufactured and shall comply ANSI/NSF 61 - 2008, Section 5 Cerbe furnished by the manufacturer of	to AS/NZS 402 tificates of con	LINERS:Tank liners  20 (Appendix A )of 2  appliance to above sta	shall be 2005 and ndards shall	
	manufactured to one piece construction, fabricated from multi-	layer PE sheet,	certified for potable	drinking	

Sl No	Specification	Quantity	Rate	Amount		
Sl No	water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-lay construction for strength, reinforced with woven scrim industrial fabric to prevent elongation a enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thi The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap. vi) The Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into scrim. vii)  Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii)					
	liners on tanks over 2m in height shall have a continuous intermediate liner support designout of nylon (or other material)cord, around the circumference of the tank, at vertical interval corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby					
	eliminate possibility of failure CORROSSION PROTECTION. The tank structure shall secondary corrosion protection system using sacrificial magnesium anodes. The number anodes, their location around the tank and the mass of each anode shall be designed for ano					
	replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shel l,Steel wall,steel domed roof,Zinc Alum steel&39;,Cost for Poly ethylene infinity liner ,Geo synthetic Fibre with food grade plastics are used for inside coating and Support Arrangements,Cost for Fabricated items,attachments and accessories like steel ladder,Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut a bolts,Freight Charges,Erection Installation and commissioning of tank component					
	Net Total	290000.000L1 tre	@6.57/Litre	1905300.00		
5.009	OD105255/2022-2023					

Sl No	Specification	Quantity	Rate	Amount
	Dowel bars - Supplying and providi (1m in rock and 1m in concrete) inc gap with cement grout (.5kg/each) e	luding drilling		
	Net Total	90.000no	@901.25/no	81112.50
			Heading Total(Rs)	2359413.89
6	Construction of 4LL Sump cum l	Pump house at	Pooppara	
6.001	2.31			
	Clearing jungle including uprooting saplings of girth up to 30 cm measuremoval of rubbish up to a distance	red at a height	of 1 m above ground	level and
	Net Total	160.000sqm	@15.40/sqm	2464.00
6.002	2.8.1			
	Earth work in excavation by mechan in foundation trenches or drains (no including dressing of sides and ramn getting out the excavated soil and di within a lead of 50 m.All kinds of so	t exceeding 1.5 ming of bottom isposal of surpl	m in width or 10 squas, lift up to 1.5 m, in	n on plan), cluding
	Net Total	13.428cum	@309.99/cum	4162.55
6.003	2.7.3	3-11		
	Earth work in excavation by mechanover areas (exceeding 30 cm in deptincluding disposal of excavated earth to be levelled and neatly dress	th, 1.5 m in wid th, lead up to 50	th as well as 10 sqm on and lift up to 1.5	on plan)
	Net Total			34866.88
6.004	OD74847/2022-2023			
	:DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia, 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete			
	Net Total	200.000no	@424.58/no	84916.00
6.005	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	21.406cum	@8340.91/cum	178545.52
6.006	5.33.1			
	Providing and laying in position ma 25 grade cement concrete for reinfo- as per approved design mix, including excluding the cost of centering, shut admixtures in recommended proport of concrete, improve workability with direction of Engineer - in-charge. N	rced cement co ng pumping of ttering, finishin tions as per IS: thout impairing	ncrete work, using concrete to site of lag and reinforcement, 9103 to accelerate, restrength and durabi	ement content lying but including etard setting lity as per

Sl No	Specification	Quantity	Rate	Amount	
	330 kg/ cum. Excess or less cement separately. All work upto plinth leve		ign mix is payable o	r recoverable	
	Net Total	49.047cum	@9825.93/cum	481932.39	
6.007	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	84.218cum	@11550.42/cum	972753.27	
6.008	Extra for providing richer mixes at a specified cement content used is pay grade concrete instead of M-25 grad in M-30 is @ 340 kg/cum).	yable/ recoveral	ble separately.Provid	ing M-30	
	Net Total	125.863cum	@85.68/cum	10783.94	
6.009	22.22	123.003cuiii	@ 03.00/cum	10703.74	
	Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc at the time of transporting of concrete into the drum of the ready-mix truck, using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. 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. The crystalline admixture 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.				
	Net Total	251.658kg	@475.72/kg	119718.74	
6.010	5.9.1				
	Centering and shuttering including stor:Foundations, footings, bases of	columns, etc for	r mass concrete		
	Net Total	57.580sqm	@350.00/sqm	20153.00	
6.011	5.9.2 Centering and shuttering including sthickness) including attached pilaste Net Total				
6.012	5.9.3	2, 0.0 TODGIII	2 ,	27.017.51	
0.012	Centering and shuttering including s	strutting, etc. ar	nd removal of form for	or:Suspended	

Sl No	Specification	Quantity	Rate	Amount	
	floors, roofs, landings, balconies an	d access platfor	rm		
	Net Total	339.794sqm	@851.49/sqm	289331.19	
6.013	5.22.6				
	Steel reinforcement for R.C.C work in position and binding all complete bars of grade Fe-500D or more				
	Net Total	15991.800kil ogram	@102.61/kilogra m	1640918.60	
6.014	50.6.1.2				
	Solid block masonry using pre cast or nearest available size confirming floor two level thickness 20cm and complete.	to IS 2185 part	I of 1979 for super	structure up to	
	Net Total	4.932cum	@6748.20/cum	33282.12	
6.015	50.6.1.8	AV.			
	Solid block masonry using pre cast or nearest available size confirming floor two level with thickness 15cm complete	to IS 2185 part	I of 1979 for super	structure up to	
	Net Total	16.050cum	@7136.86/cum	114546.60	
6.016	13.7.1	FORM FOR THE	MANAGEMENT		
	12 mm cement plaster finished with cement : 3 fine sand)	a floating coat	of neat cement of m	ix:1:3 ( 1	
	Net Total	602.686sqm	@418.80/sqm	252404.90	
6.017	13.16.1				
	6 mm cement plaster of mix:1:3 (1	cement: 3 fine	sand)		
	Net Total	244.030sqm	@279.31/sqm	68160.02	
6.018	13.47.1				
	Finishing walls with Premium Acry of required shade: New work (Two cincluding priming coat of exterior p	or more coats ap	oplied @ 1.43 ltr/ 10		
	Net Total	260.386sqm	@198.01/sqm	51559.03	
6.019	13.44.1				
	Finishing walls with water proofing or more coats applied @ 3.84 kg/10		f required shade:Nev	w work (Two	
	Net Total	285.720sqm	@112.08/sqm	32023.50	
6.020	13.71				
	Lettering with black Japan pint of a	pproved brand a	and manufacture		
	Net Total	100.000per Letter per cm height	@5.82/per Letter per cm height	582.00	

Sl No	Specification	Quantity	Rate	Amount
6.021	10.25.2			
	Item Shifted to Sub head 14 as item Item Shifted to head 14 as item 14.7 Steel work welded in built up section fixing in position and applying a pristructural steel etc. as required. In grand brackets, gates and similar works	74 ons/framed worl iming coat of ap	proved steel primer	using
	Net Total	950.000kg	@160.93/kg	152883.50
6.022	100.41.34			
	Supplying and fixing Rectangular C (low duty) charges including all cos			n with frame
	Net Total	8.000no	@2920.75/no	23366.00
6.023	9.48.2			
	Providing and fixing M.S. Grills of M.S. flats, square or round bars etc. primer all complete. Fixed to opening	including prim	ing coat with approv	ed steel
	Net Total	150.000kg	@225.44/kg	33816.00
6.024	10.6.1	A STANCE		
	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 a 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	6.480sqm	@3617.31/sqm	23440.17
6.025	OD74851/2022-2023			
	:Providing suitable size ventilating a per the direction of departmental officers	arrangements b	y using 100 mm CI v	vent cowls as
	Net Total	2.000no	@1689.75/no	3379.50
6.026	21.1.1.2			2
	Providing and fixing aluminium wo with extruded built up standard tubu sections of approved make conform fasteners of required dia and size, ir i.e. at top, bottom and sides with red Aluminium sections shall be smooth mechanically wherever required inciglazing /paneling, C.P. brass/ stainled drawings and the directions of Engifasteners to be paid for separately): For fixed portionPowder coated alu 50 micron)	alar sections/ aping to IS: 733 accluding necess quired EPDM run, rust free, straduding cleat angless steel screws neer-in-charge.	opropriate Z sections and IS: 1285, fixing ary filling up the gap ubber/ neoprene gask ight, mitred and join gle, Aluminnium sna de, all complete as per (Glazing, paneling and	and other with dash os at junctions, set etc. ted up beading for architectural and dash

Sl No	Specification	Quantity	Rate	Amount
	Net Total	12.000kg	@560.61/kg	6727.32
6.027	21.1.2.2			
	For shutters of doors, windows & very pivots and making provision for fixing cost of EPDM rubber/ neoprene gas separately)Powder coated aluminium micron)	ing of fittings w ket required (Fi	herever required inc ittings shall be paid f	luding the or
	Net Total	12.000kg	@671.29/kg	8055.48
6.028	21.3.1			
	Providing and fixing glazing in alumpartitions etc. with EPDM rubber / rarchitectural drawings and the direct aluminium snap beading shall be pathickness	neoprene gasker tions of Engine	t etc. complete as per er - in -Charge. (Co	the st of
	Net Total	6.750sqm	@1228.18/sqm	8290.22
6.029	21.15.2			
	Providing and fixing aluminium cas aluminium windows with necessary minimum thickness 50 micron alum	necessary scre		
	Net Total	10.000no	@87.92/no	879.20
6.030	18.26.1			
	Providing and laying flanged C.I. Stapers, caps etc., suitable for flanged			
	Net Total	1.340quintal	@9660.34/quinta l	12944.86
6.031	100.36.1			
	Filling water with 5000 litre tankers fited in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set, hire for tanker lorry, tools and other appliences and cost of water etc. complete.			
	Net Total	400.000Kilo litre	@190.05/Kilo litre	76020.00
6.032	OD247171/2022-2023			
	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,			
	Net Total	1.000each	@10453.50/each	10453.50
			Heading Total(Rs)	5030379.34
7	Construction of 0.4LL Sump cum	Pump house a	t Erachilpara	
7.001	2.31			
	Clearing jungle including uprooting saplings of girth up to 30 cm measu			

Sl No	Specification	Quantity	Rate	Amount		
	removal of rubbish up to a distance	of 50 m outside	e the periphery of the	e area cleared		
	Net Total	80.000sqm	@15.40/sqm	1232.00		
7.002	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 41.624cum @309.99/cum 12903					
7.003	2.7.3					
	Earth work in excavation by mecha- over areas (exceeding 30 cm in depi including disposal of excavated earth earth to be levelled and neatly dress	th, 1.5 m in wid th, lead up to 50	th as well as 10 sqm of m and lift up to 1.5	on plan)		
	Net Total	13.606cum	@1248.59/cum	16988.32		
7.004	OD75656/2022-2023					
	:DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia, 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete					
	Net Total	80.000no	@424.58/no	33966.40		
7.005	4.1.3  Providing and laying in position cercost of centering and shuttering - Alsand (zone-III): 4 graded stone agg  Net Total	ll work up to pl	inth level:1:2:4 (cem nominal size)			
7.006	7.1.1			•		
	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)					
	Net Total	25.835cum	@7520.38/cum	194289.02		
7.007	5.33.1					
	Providing and laying in position ma 25 grade cement concrete for reinfo as per approved design mix, includi excluding the cost of centering, shu admixtures in recommended propor of concrete, improve workability wi direction of Engineer - in-charge. N 330 kg/ cum. Excess or less cement separately. All work upto plinth leve	rced cement co ng pumping of ttering, finishin tions as per IS: thout impairing ote:- Cement co used as per des	ncrete work, using c concrete to site of la g and reinforcement 9103 to accelerate, i g strength and durabi ontent considered in	ement content aying but , including retard setting lity as per this item is @		
	Net Total	9.178cum	@9825.93/cum	90182.39		

Sl No	Specification	Quantity	Rate	Amount
7.008	5.33.2			
	Providing and laying in position ma 25 grade cement concrete for reinfo as per approved design mix, includi excluding the cost of centering, shu admixtures in recommended propor of concrete, improve workability wi direction of Engineer - in-charge. N 330 kg/ cum. Excess or less cement separately. All work above plinth lev	rced cement co ng pumping of ttering, finishin tions as per IS: thout impairing ote:- Cement co used as per des	ncrete work, using concrete to site of lag and reinforcement, 9103 to accelerate, restrength and durabicontent considered in sign mix is payable of	ement content nying but including etard setting lity as per this item is @
	Net Total	25.550cum	@11550.42/cum	295113.23
7.009	5.34.1			
	Extra for providing richer mixes at a specified cement content used is pay grade concrete instead of M-25 grad in M-30 is @ 340 kg/cum).	yable/ recoveral	ble separately.Provid	ling M-30
	Net Total	25.550cum	@85.68/cum	2189.12
7.010	22.23.1	12001F		
	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 & Discourse and 3 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 engineerincharge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @0.70 kg per sqm  Net Total 16.141sqm @595.25/sqm 9607.93			
7.011	22.23.2			
	Providing and applying integral cry waterproofing treatment to the RCC water tanks, roof slabs, podiums, re tunnels / subway and bridge deck etc., preprintegral crystalline slurry: 2 parts wintegral crystalline slurry: 1 part was same from negative (internal) side with shall meet the requirements as specific permeability of concrete by more the DIN 1048 and resistant to 16 bar hy	structures like servior, sewage ared by mixing vater) for verticater) for horizon with the help of fied in ACI-21 an 90% compa	retaining walls of the & amp; water treatment in the ratio of 5 : 2 (all surfaces and 3 : 1 (and surfaces and appropriate the surfaces and appropriate the surfaces and appropriate the surfaces and appropriate the surfaces are surfaces.	e basement, nent plant, 5 parts (3 parts lying the a. The material ucing crete as per

Sl 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 engineerincharge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @1.10 kg per sqm.				
	Net Total	5.850sqm	@458.80/sqm	2683.98	
7.012	50.6.1.2				
	Solid block masonry using pre cast or nearest available size confirming floor two level thickness 20cm and complete.	to IS 2185 part	I of 1979 for super	structure up to	
	Net Total	1.327cum	@6748.20/cum	8954.86	
7.013	50.6.1.8				
	Solid block masonry using pre cast or nearest available size confirming floor two level with thickness 15cm complete	to IS 2185 part	I of 1979 for super	structure up to	
	Net Total	10.755cum	@7136.86/cum	76756.93	
7.014	5.9.1	3-11			
	Centering and shuttering including for:Foundations, footings, bases of	strutti <mark>n</mark> g, etc. ar columns, etc for	nd removal of form r mass concrete		
	Net Total	25.960sqm	@350.00/sqm	9086.00	
7.015	5.9.2				
	Centering and shuttering including thickness) including attached pilaste				
	Net Total	107.640sqm	@748.62/sqm	80581.46	
7.016	5.9.3				
	Centering and shuttering including floors, roofs, landings, balconies an	strutting, etc. ard d access platfor	nd removal of form form	or:Suspended	
	Net Total	76.198sqm	@851.49/sqm	64881.84	
7.017	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	4166.400kilo gram	@102.61/kilogra m	427514.30	
7.018	13.7.1				
	12 mm cement plaster finished with cement : 3 fine sand)	a floating coat	of neat cement of m	ix:1:3 ( 1	
	Net Total	594.832sqm	@418.80/sqm	249115.64	
7.019	13.47.1				

Sl No	Specification	Quantity	Rate	Amount
	Finishing walls with Premium Acry of required shade:New work (Two cincluding priming coat of exterior p	or more coats ap	oplied @ 1.43 ltr/ 10	
	Net Total	397.408sqm	@198.01/sqm	78690.76
7.020	13.71			
	Lettering with black Japan pint of a	pproved brand a	and manufacture	
	Net Total	80.000per Letter per cm height	@5.82/per Letter per cm height	465.60
7.021	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	600.000kg	@160.93/kg	96558.00
7.022	100.41.34	ALCONOMY.		
	Supplying and fixing Rectangular C (low duty) charges including all cos			with frame
	Net Total	4.000no	@2920.75/no	11683.00
7.023	Providing and fixing M.S. Grills of M.S. flats, square or round bars etc. primer all complete. Fixed to openin	including primags/ wooden fram	ing coat with approv nes with rawl plugs	ed steel screws etc
7.024	Net Total	70.000kg	@225.44/kg	15780.80
7.024	Supplying and fixing rolling shutter laths, interlocked together through the by end locks, mounted on specially arrangements for inside and outside including the cost of providing and manufactured from high tensile stee 4454 - part 1 and M.S. top cover of mm M.S. laths with 1.25 mm thick	heir entire lengt designed pipe s locking with pu fixing necessary I wire of adequate required thicknown	th and jointed togeth haft with brackets, s ash and pull operation y 27.5 cm long wire ate strength conform	er at the end ide guides and on complete, springs ing to IS:
	Net Total	7.200sqm	@3617.31/sqm	26044.63
7.025	21.1.1.2			
	Providing and fixing aluminium wo with extruded built up standard tubu sections of approved make conform fasteners of required dia and size, ir i.e. at top, bottom and sides with rec Aluminium sections shall be smootl mechanically wherever required inc glazing /paneling, C.P. brass/ stainled	allar sections/ aping to IS: 733 and all all all all all all all all all al	propriate Z sections and IS: 1285, fixing arry filling up the gap abber/ neoprene gaskight, mitred and joint gle, Aluminnium sna	and other with dash s at junctions, tet etc. ted p beading for

Sl No	Specification	Quantity	Rate	Amount	
	drawings and the directions of Engineer-in-charge.(Glazing, paneling and dash fasteners to be paid for separately): For fixed portionPowder coated aluminium (minimum thickness of powder coating 50 micron)				
	Net Total	12.000kg	@560.61/kg	6727.32	
7.026	21.1.2.2				
	For shutters of doors, windows & venture of pivots and making provision for fix cost of EPDM rubber/ neoprene gas separately)Powder coated aluminium micron)	ing of fittings w ket required (Fi m (minimum th	wherever required incittings shall be paid fickness of powder co	cluding the For pating 50	
	Net Total	10.000kg	@671.29/kg	6712.90	
7.027	21.3.1				
	Providing and fixing glazing in alur partitions etc. with EPDM rubber / narchitectural drawings and the direct aluminium snap beading shall be pathickness	neoprene gaske tions of Engine	t etc. complete as per eer - in -Charge. (Co	r the st of	
	Net Total	8.438sqm	@1228.18/sqm	10363.38	
7.028	OD149113/2022-2023				
	Supply conveyance ,installation testing and commissioning of 36/40 W LED street/Yard light out put greater than 105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumilled/Nichea with powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium preasure die cast powder coated housing acryliccover complete with THD less than 10% power factor greater than 0.98 R0HS compliant duly wired up for use on 230v AC supply.Driver compartment should be separately accessible for maintanance(LM 79&80 Certificate from NABL acredited third party lab produced mentioning chip manufacturer)				
	Net Total	4.000no	@4297.55/no	17190.20	
7.029	OD149115/2022-2023				
	Taking new electrical connection fr	om KSEBL			
	Net Total	1.0001 nos	@23230.00/1 nos	23230.00	
7.030	OD149117/2022-2023				
	Charges for Supply, Installation, Trial run and commissioning of CCTV cameras in Raw water pump houses which includes providing 2Nos 5 MP camera with motion sensor and 30m vision, 5 MP or Higher HD out DVR,1TB HDD,4G Router, Cable 10m,Rack, 500VA UPS, etc complete				
	Net Total	1.0001 nos	@36521.88/1 nos	36521.88	
7.031	18.26.1				
	Providing and laying flanged C.I. Stapers, caps etc., suitable for flange				
	Net Total	1.340quintal	@9660.34/quinta	12944.86	

Sl No	Specification	Quantity	Rate	Amount	
7.032	100.36.1				
	Filling water with 5000 litre tankers fited in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set, hire for tanker lorry, tools and other appliences and cost of water etc. complete.				
	Net Total	40.000Kilo litre	@190.05/Kilo litre	7602.00	
7.033	OD247172/2022-2023	-			
	Supplying and providing water leve 2mm thick MS plate with tube, 160mm PVC pipe for guiding nylon thread for connecting float an	in the frame we the float, <br< td=""><td>ork of suitable size N &gt;necessary pullie</td><td>AS square es, suitable</td></br<>	ork of suitable size N >necessary pullie	AS square es, suitable	
	Net Total	1.000each	@10453.50/each	10453.50	
			Heading Total(Rs)	1992332.19	
8	Construction of 3LL Sump cum	Pump house at	James padi		
8.001	2.31				
	Clearing jungle including uprooting saplings of girth up to 30 cm measu removal of rubbish up to a distance	red at a height of	of 1 m above ground	level and	
	Net Total	120.000sqm	@15.40/sqm	1848.00	
8.002	2.8.1 <b>GPLAT</b>	FORM FOR THE	MANAGEMENT		
	Earth work in excavation by mechanin foundation trenches or drains (no including dressing of sides and ramgetting out the excavated soil and diwithin a lead of 50 m.All kinds of so	t exceeding 1.5 ming of bottom sposal of surplu	m in width or 10 squ s, lift up to 1.5 m, in	m on plan), cluding	
	Net Total	33.000cum	@309.99/cum	10229.67	
8.003	2.7.2	-			
	Earth work in excavation by mecha- over areas (exceeding 30 cm in depi including disposal of excavated earth earth to be levelled and neatly dress	th, 1.5 m in wid th, lead up to 50	th as well as 10 sqm m and lift up to 1.5	on plan)	
	Net Total	36.528cum	@749.05/cum	27361.30	
8.004	OD106803/2022-2023				
	Dowel bars - Supplying and providi (1m in rock and 1m in concrete) inc gap with cement grout (.5kg/each) e	luding drilling l			
	Net Total	150.000no	@901.25/no	135187.50	
8.005	4.1.3				
	Providing and laying in position cercost of centering and shuttering - Alsand (zone-III) : 4 graded stone agg	ll work up to pli	inth level:1:2:4 (cem		
	Net Total	14.554cum	@8340.91/cum	121393.60	

Sl No	Specification	Quantity	Rate	Amount	
8.006	5.33.1				
	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level				
<u> </u>	Net Total	20.392cum	@9825.93/cum	200370.36	
8.007	5.33.2				
	Providing and laying in position ma 25 grade cement concrete for reinfo as per approved design mix, includi excluding the cost of centering, shur admixtures in recommended propor of concrete, improve workability wi direction of Engineer - in-charge. N 330 kg/ cum. Excess or less cement separately. All work above plinth lever the concrete in the con	rced cement co ng pumping of ttering, finishin tions as per IS: thout impairing ote:- Cement co used as per des	ncrete work, using concrete to site of lag and reinforcement, 9103 to accelerate, restrength and durabinated in sign mix is payable of	ement content aying but a including retard setting lity as per this item is @	
	Net Total	67.665cum	@11550.42/cum	781559.17	
8.008	5.34.1	FORM FOR THE	MANAGEMENT		
	Extra for providing richer mixes at a specified cement content used is pay grade concrete instead of M-25 grad in M-30 is @ 340 kg/cum).	yable/ recoveral	ble separately.Provid	ling M-30	
	Net Total	67.665cum	@85.68/cum	5797.54	
8.009	50.6.1.3				
	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 above floor two level up to floor V level thickness 20cm and above in: CM 1:6 (1 cement :6 coarse sand) etc complete				
	Net Total	8.310cum	@7784.73/cum	64691.11	
8.010	50.6.1.9				
	Solid block masonry using pre cast or nearest available size confirming above floor two level upto floor five : 6 coarse sand) etc complete	to IS 2185 part	I of 1979 for super	structure	
	Net Total	11.311cum	@8173.38/cum	92449.10	
8.011	21.1.1.2				
	Providing and fixing aluminium wo with extruded built up standard tubu sections of approved make conform fasteners of required dia and size, in	lar sections/ aping to IS: 733	propriate Z sections and IS: 1285, fixing	and other with dash	

Sl No	Specification	Quantity	Rate	Amount	
	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 portionPowder coated aluminium (minimum thickness of powder coating 50 micron)				
	Net Total	12.000kg	@560.61/kg	6727.32	
8.012	21.1.2.2  For shutters of doors, windows & very pivots and making provision for fix cost of EPDM rubber/ neoprene gas separately)Powder coated aluminium micron)	ing of fittings w ket required (Fi	herever required inc attings shall be paid f	luding the for	
	Net Total	9.000kg	@671.29/kg	6041.61	
8.013	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	8.438sqm	@1228.18/sqm	10363.38	
8.014	5.9.1 Centering and shuttering including for:Foundations, footings, bases of	columns, etc for	r mass concrete	5040.00	
8.015	Net Total 5.9.3	14.400sqm	@350.00/sqm	5040.00	
8.013	Centering and shuttering including floors, roofs, landings, balconies an	d access platfor	m		
0.016	Net Total	482.424sqm	@851.49/sqm	410779.21	
8.016	5.22.6  Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more				
	Net Total	10566.840kil ogram	@102.61/kilogra m	1084263.45	
8.017	13.7.1				
	12 mm cement plaster finished with cement : 3 fine sand)	a floating coat	of neat cement of m	ix:1:3 ( 1	
	Net Total	842.041sqm	@418.80/sqm	352646.77	
8.018	22.23.1				
	Providing and applying integral cry	stalline slurry o	f hydrophilic in natu	re for	

Sl No	Specification	Quantity	Rate	Amount
	waterproofing treatment to the RCC water tanks, roof slabs, podiums, retunnels / subway and bridge deck etc., prepintegral crystalline slurry: 2 parts wintegral crystalline slurry: 1 part wasame from negative (internal) side wishall meet the requirements as specipermeability of concrete by more the DIN 1048 and resistant to 16 bar hy crystalline slurry shall be capable of self-healing shall be carried out all complete as engineerincharge. The product performance sheakage. For vertical surface two contents of the surface in the surface of the surface in the surface is the surface of th	servior, sewage ared by mixing vater) for vertica ater) for horizor with the help of ified in ACI-212 ann 90% company drostatic pressuring of cracks upper specification all carry guaran	& Eamp; water treatment of 5:2 (all surfaces and 3:1 antal surfaces and appropriate synthetic fiber brush 2-3R-2010 i.e by reduced with control concurred on negative side.  To a width of 0.50mm and the direction of the for 10 years against the surface of the su	sent plant, 5 parts (3 parts lying the a. The material ducing crete as per The m. The work f the
	Net Total		•	25546.94
8.019	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 & parts 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 engineerincharge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @1.10 kg per sqm.  Net Total 18.232sqm @458.80/sqm 8364.84			
8.020	13.47.1	•	•	
0.020	Finishing walls with Premium Acry of required shade:New work (Two of including priming coat of exterior part of Net Total	or more coats aprimer applied ©	oplied @ 1.43 ltr/ 10 @ 2.20 kg/ 10 sqm)	
8.021	13.71	772.7313qIII	@ 170.01/5 <b>q</b> III	77003.27
0.021	Lettering with black Japan pint of a	nnroved brand :	and manufacture	
	Net Total	80.000per	@5.82/per Letter per cm height	465.60
8.022	10.25.2			
L				

Sl No	Specification	Quantity	Rate	Amount	
	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	850.000kg	@160.93/kg	136790.50	
8.023	100.41.34				
	Supplying and fixing Rectangular C (low duty) charges including all cos			n with frame	
	Net Total	6.000no	@2920.75/no	17524.50	
8.024	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	8.100sqm	@3617.31/sqm	29300.21	
8.025	9.48.2				
	Providing and fixing M.S. Grills of M.S. flats, square or round bars etc. primer all complete. Fixed to opening	including prim	ing coat with approv	ed steel	
	Net Total	80.000kg	@225.44/kg	18035.20	
8.026	18.26.1				
	Providing and laying flanged C.I. Stapers, caps etc., suitable for flanged				
	Net Total	1.340quintal	@9660.34/quinta 1	12944.86	
8.027	OD247174/2022-2023				
	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,				
	Net Total	1.000each	@10453.50/each	10453.50	
8.028	100.36.1				
	Filling water with 5000 litre tankers distance of 5 km (average) to the reservoir of height not less than 3 m tanker lorry, tools and other applien	servoir site and using 5 HP die	pumping the water i esel engine pump set	nto the	
	Net Total	300.000Kilo litre	@190.05/Kilo litre	57015.00	

Sl No	Specification	Quantity	Rate	Amount	
			Heading Total(Rs)	3730795.51	
9	Road restoration charges PWD/S	H/NH			
9.001	01 3.6				
	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m				
	Net Total	1613.775cum	@48.79/cum	78736.08	
9.002	4.2.A.1				
	Construction of granular sub-base b layers with a motor grader on a prep rotavator at OMC, and compacting density, complete as per clause 401 Method	pared surface, m with a vibratory	nixing by mix in-place roller to achieve the	e method with desired	
	Net Total	1154.625cum	@3283.03/cum	3790668.51	
9.003	4.12				
	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.				
	Net Total	48.000cum	@3375.91/cum	162043.68	
9.004	5.1.a				
	Providing and applying primer coat of granular Base including clearing 0.70 - 1.0 kg/sqm using mechanical	of road surface	emulsion (SS) on pre and spraying primer	pared surface at the rate of	
	Net Total	510.000sqm	@61.55/sqm	31390.50	
9.005	5.2.b				
	Providing and applying tack coat w pressure distributor at the rate of 0.2 Surface cleaned with mechanical br	25 - 0.30 kg per			
	Net Total	510.000sqm	@14.05/sqm	7165.50	
9.006	5.3.2.a				
	Providing and laying bituminous m an average output of 75 tonnes per la premixed with a bituminous binder previously prepared surface with pa alignment and rolled as per clauses compaction For Grading II - (19 mr	nour using crusl (VG 30), transporter finisher to to 501.6 and 501.7	hed aggregates of special ported to the site, laid the required grade, left to achieve the desired to achieve the desired the	ecified grading l over a vel, and	
	Net Total	18.750cum	@8465.71/cum	158732.06	
9.007	5.2.a				
	Providing and applying tack coat w pressure distributor at the rate of 0.2				

Sl No	Specification	Quantity	Rate	Amount	
	surface cleaned with mechanical bro	oom.			
	Net Total	375.000sqm	@11.60/sqm	4350.00	
9.008	5.6.2.a				
	Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)				
	Net Total	11.250cum	@12886.67/cum	144975.04	
9.009	5.7.1				
	Providing, laying and rolling of clost thickness composed of 11.2 mm to 0 grade bitumen (VG - 30) to the requestion on a previously prepared bas appropriate capacity not less than 75 wheeled roller 8-10 tonne capacity,	0.09 mm (Type uired line, grade e, including mi 5 tonnes/hour.,	<ul> <li>-A) aggregates using e, and level to serve xing in a suitable HM laying and rolling wi</li> </ul>	viscosity as wearing MP of th a Smooth	
	Net Total	135.000sqm	@203.29/sqm	27444.15	
9.010	5.8.a				
	Providing and laying surface dressing stone aggregates of specified size on prepared surface and rolling with 8-19 mm nominal chipping size	n a layer of bitu 10 tonne smoot	minous binder (VG and the steel rolls wheeled steel rolls	30) laid on the er. Grading I -	
	Net Total	135.000sqm	@109.04/sqm	14720.40	
9.011	Plain cement concrete 1:3:6 nomina 40 mm nominal size mechanically n vibration including curing for 14 da	nixed, placed in ys.	n foundation and con	npacted by	
0.014	Net Total	632.475cum	@6718.30/cum	4249156.79	
9.012	Plain/Reinforced Cement Concrete Technical Specifications PCC Grad		ation complete as per	Drawing and	
	Net Total	316.238cum	@8377.76/cum	2649366.07	
			Heading Total(Rs)	11318748.7 8	
10	Road restoration charges -LSGD				
10.001	3.5.3				
	Excavation in Soil using Hydraulic Excavation for roadwork in soil with including cutting and loading in tipp accordance with requirements of lin the embankment location with a lift	h hydraulic exc pers, trimming t es, grades and o	avator of 0.9 cum bu bottom and side slope cross-sections, and tr	cket capacity es, in cansporting to	

Sl No	Specification	Quantity	Rate	Amount	
	Specification Clause 302.3				
	Net Total	156.250cum	@37.83/cum	5910.94	
10.002	4.1.A.1				
	Granular Sub-base with Well Graded Material (Table 400.1) (A) By Mix in Place Method Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (i) For Grading I Material				
	Net Total	85.000cum	@3094.44/cum	263027.40	
10.003	4.9				
	Wet Mix Macadam Providing, lay aggregate to wet mix macadam spect water at OMC in mechanical mixer site, laying in uniform layers in subcompacting with smooth wheel rolledensity including lighting, barricadi Tables 400.11 & 400.12 and Techni Means with 1 km lead	eification include (Pug Mill), card base/base cour er of 80 to 100k ng and mainten	ling premixing the mater riage of mixed mater se on a well prepared N weight to achieve ance of diversion, et	aterial with ial by tipper to I sub-base and the desired c as per	
	Net Total	30.000cum	@3459.12/cum	103773.60	
10.004	5.1.1a				
	Prime Coat:- Low porosity Provide emulsion (SS-1) on prepared surface surface and spraying primer at the reper Technical Specification Clause	e of granular ba ate of 0.70-1.0 1 502	se including cleaning kg/sqm using mechan	g of road nical means as	
	Net Total	250.000sqm	@74.09/sqm	18522.50	
10.005	5.2.3a  Tack Coat Providing and applying emulsion distributor at the rate of 0. surfaces treated with primer & clear Specification Clause 503.	25 to 0.30 kg p ned with Hydra	er sqm on the prepar ulic broom as per Te	ed granular chnical	
	Net Total	250.000sqm	@15.63/sqm	3907.50	
10.006	5.9.1.2a  20mm thick Open-Graded Premix C grade/modified bitumen) Binder - B open-graded premix carpet of 20 maggregates either using penetration and level to serve as wearing course in a suitable plant, laying and rollin capacity, finished to required level a Type A or Type B or Type C as per Manual Means (II) Bitumen (S-65)	itumen S-65 Im thickness congrade bitumen of on a previously with a three wand grades to be Technical Spec	Providing, laying and nposed of 13.2 mm to remulsion to requir y prepared base, included 80-100 kN state followed by seal co	rolling of o 5.6 mm ed line, grade uding mixing ic roller at of either	
	Net Total	337.500sqm	@200.97/sqm	67827.38	
10.007	5.12.A.3.2a				
	Seal Coat - Manual Means - Type C	C - Bitumen S-6	5 Providing and lay	ring seal coat	

Sl No	Specification	Quantity	Rate	Amount
	sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A. By Manual Means: - Case - III: Type C (II) Bitumen (S-65)			
	Net Total	337.500sqm	@85.09/sqm	28717.88
10.008	11.4.3.1			
	Providing concrete for plain/reinfordrawings and technical specification M 20 (i) Nominal mix (1:2:4)			
	Net Total	74.250cum	@8633.95/cum	641070.79
			Heading Total(Rs)	1132757.99
11	Electrification works and Supply sets at Erachilpara	erection testin	g and commissionin	ng of pump
11.001	OD149124/2022-2023			
	Supply, erection & Department of the supply and stainless steel shaft, CI/SS pump can suitable fully Automatic starter with current protection relay, MS panel be lamps, voltmeter, ammeter, change set including necessary copper cable return & Department amp; sluice valves, suction regulations & Department amp; kSEB standard as per the direction of dept. officers documentation is required, that shows Supply, erection, testing and commit pumpsets with Bronze/SS impeller of base plate with coupling, coupling suitable for coupling the pump and including providing suitable concrete metal etc complete the duty condition 130m, Speed -1460 rpm, & Lt; br & gt; commissioning of Kirloskar reputed squaral cage induction motor suitab supply, working voltage & Lt; br & gt; IE2/IE3 as per IS 12615-2018 including cost of cement, sand and used for coupling of pumps and most testing and commissioning of dry ty 40,60,80% taping mounded with povermin proof floor mounted control boxes for accommodating the follow the fully automatic auto transformer equivalent reputed co. make MNX 200 comake MNX 95 contactor unit-20 CV/UV control relays Minilac or eddigital meter 1 No and selector swittlamps, Digital or numerical motor pump.	a 15 LPS disch 0/415V at 50 Hz sing with suitable of the dry run, under coard with MCC over switch etc. For wiring, early and erected & are and 2 years of all be arranged missioning of K. SS shaft and C. SS shaft and C. SS shaft and C. SS shaft and C. SI	arge against 130 M hz, 1450 rpm with broole type base plate, in voltage, over voltage CB, ELCB, Capacitor suitable for the above thing, suitable size Cy connections etc as pm; trial run conduct free maintenance. If by the supplier. A). Firloskar reputed make I pump casing with stion bolts and nuts etc base plate cluding cost of cemeral solid shaft foot means a	nead at its onze impeller, icluding e & Eamp; over r, Indicator re motor pump GM/CI non per ISI and IE ed for 7days any PUMP:- e centrifugal suitable type ic. complete ent, sand and ital head - sting and bunted TEFC ase 50HZ AC onfirm to indation ig shall be ply, erection, naving in dust and it cable entry itions of the L&T or or equivalent in y 1 No eventer AVF se indication g with 25 x

Sl No	Specification	Quantity	Rate	Amount
	(D).PANNEL BOARD: Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable rating of 3 pole MCCB as incomer providing suitable size Aluminium bus bar inter connect the above MCCB and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. complete and provided with duplicate earth point as per CEA regulation and code of practice. the panel shall be fitted on a common base frame on suitable foundation (E).CABLING WORK:- Supply, laying, testing and commissioning of suitable size Aluminium conductor armoured cables for the above pump set from panel board to starter and suitable size cable through PVC pipe, flexible hose and accessories from starter to motor.considering energy conservation (F). EARTHING:- Supply of all material and providing duplicate earthing by 25 x 3mm copper strip on wall /column/floor/buried (Appx. 20 mtrs) in ground and giving double earthing to motor,starter,panel board etc. and connect with existing earthbus. As per IE standard (G).CAPACITOR:- Supply,erection,testing and commissioning suitable rating of of heavy duty APP capacitor for the above motor to get unity power factor. The capacitor shal confirm to IS 2834 (H).VALVE:- Supply of suitable size best quality heavy duty ISI Marked CI double fanged sluice valve and Non return valve with suitable pressure rating fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works. Pressure gauge on both suction and delivery side  (I).SUCTION AND DELIVERY PIPE CONNECTIONS:-Supply and fitting of suitable size best quality MS pipe of thickness not less than 8 mm for a total length of 8 m (approx), suitable for the above pump set and suitable size foot valve and connecting t			
	Net Total	2.000no	@563793.68/no	1127587.36
11.002	Supply & Dong installation of light fittings on TW round block Supply, conveyance installation testing and commissioning the light fittings of following types made of CRCA with 0.5mm thickness complete with all accessories and lamps etc. directly on wall or ceiling with PVC round block neatly painted to suit the fitting and giving connection with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS and giving connections as required. 1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, RoHS compliant, high lumen tube.  Net Total 6.000no @1055.99/no 6335.94			
11.003				
	Providing and fixing 25 mm X 5 mm connections etc. as required. As per	m copper strip ( Databook DAI	on surface or in reces R Electrical-5.14.	ss for

Sl No	Specification	Quantity	Rate	Amount	
	Net Total	8.000metre	@1251.12/metre	10008.96	
11.004	4 OD151205/2022-2023				
	25mm PVC Conduit- Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recessincluding cutting the wall and making good the same in case of recessed conduit as required. 25 mm .As per Databook DAR Electrical-1.21.2.				
	Net Total	6.000metre	@111.80/metre	670.80	
11.005	OD151209/2022-2023				
	Wiring with 3x 4 sq mm FRLS PVC drawing following sizes of FRLS P' in the existing surface / recessed steedatabook DAR Electrical-1.17.21.	VC insulated co	opper conductor, sing	gle core cable	
	Net Total	6.000metre	@144.35/metre	866.10	
11.006	OD151210/2022-2023				
	12 Way MCB DB 240V -Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCBIRCCB/Isolator 12 way, Double door. As per Databook DAR Electrical-2.3.3.				
	Net Total	1.000no	@2060.67/no	2060.67	
11.007	OD151211/2022-2023				
	SPN 5-32A MCB-Supplying and fix "C" curve, miniature cir following poles in the existing MCF commissioning etc. asrequired. Sing Electrical-2.10.2.	cuit breaker sui B DB complete	itable forinductive lowith connections, test	oad of sting and	
	Net Total	2.000no	@675.08/no	1350.16	
11.008	OD151212/2022-2023				
	DP Isolator 40A -Supplying and fix isolator in the existing MCB DB cocommissioning etc. as required. 40	mplete withcon	nections, testing and		
	Net Total	1.000no	@420.34/no	420.34	
11.009	OD151213/2022-2023				
	RCCB DP 40A - Supplying and fixing and neutral), 240 volts, residual current circuitbreaker (RCCB), have the existing MCB DB complete with required. 40 amps.  As per Databook DAR Electrical 2.	ing a sensitivity h connections, t	current upto 300 mi	Illiamperes in	
	Net Total	1.000no	@2599.90/no	2599.90	
11.010	OD151214/2022-2023				
	Wiring for light point/ fan point/ ex FRLS PVC insulated copperconductor single co	-	•	•	

Sl No	Specification	Quantity	Rate	Amount
	conduit, with modular switch, modular plate, suitableGI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Group B. As per Databook DAR Electrical 1.10.2.			
	Net Total	14.000point	@970.89/point	13592.46
11.011	OD151215/2022-2023			
	Earthing with copper earth plate 600 accessories, and providing masonry arrangement and watering pipe of 2 required. As per Data book Electric	enclosure with .7 metre long et	cover plate having l	ocking
	Net Total	1.000set	@14635.61/set	14635.61
11.012	OD151216/2022-2023			
	Expenses of getting electrical conne service charges, energization charg		EB including docume	entation fee,
	Net Total	1.000job	@19977.80/job	19977.80
11.013	OD151293/2022-2023	12/2/2/1/2/		
	Supply, conveyance, installation and 300/305mm sweep in metal frame waking good the damages etc as recommendation.	vor <mark>king on 230</mark> °	V A/C 300 sweep inc	cluding
	Net Total	2.000no	@2633.90/no	5267.80
11.014	OD152561/2022-2023	BLIC WORKS		
	Supply conveyance ,installation test street/Yard light out put greater that protection with LED chip make cree 0.95 at full load ,internal surge prote powder coated housing acryliccover greater than 0.98 R0HS compliant of compartment should be separately a Certificate from NABL acredited the manufacturer)	n105 lumen/war e/Lumilled/Nicl ection up to 8 k r complete with luly wired up for accessible for m	tts 4000-6000K with hea with powerfactor v and alluminium prompted THD less than 10% or use on 230v AC suaintanance(LM 79&	IP66 r greater than easure die cast power factor upply.Driver amp;80
	Net Total	4.000no	@4546.00/no	18184.00
11.015	OD203361/2022-2023			
	Supply, delivery and fixing of 3 Toworking on single girder with overhooditions for lifting the chemicals, supplied with one set of crane sling per the instruction of the Engineer in	ead travelling t Chlorine, pumps with GI D shann charge. <br< th=""><th>rolley and clear lift aps etc and fitting as ckle and clamps etc. &gt;</th><th>ns per site required,</th></br<>	rolley and clear lift aps etc and fitting as ckle and clamps etc. >	ns per site required,
	Net Total	1.000no	@284722.27/no	284722.27
			<b>Heading Total(Rs)</b>	1508280.17
12	Electrification works and Supply sets at Poopara	erection testin	g and commissionir	ng of pump
12.001	OD149129/2022-2023			
	Supply, erection & amp; commission	ning of best qua	ality KWA approved	make ISI

**Specification** Sl No Quantity Rate Amount marked centrifugal pumpset having a 15 LPS discharge against 145 M head at its maximum efficiency working at 230/415V at 50 Hz, 1450 rpm with bronze impeller, stainless steel shaft, CI/SS pump casing with suitable type base plate, including suitable fully Automatic starter with dry run, under voltage, over voltage & property amp; over current protection relay, MS panel board with MCCB, ELCB, Capacitor, Indicator lamps, voltmeter, ammeter, change over switch etc suitable for the above motor pump set including necessary copper cable for wiring, earthing, suitable size GM/CI non return & amp; sluice valves, suction & amp; delivery connections etc as per ISI and IE regulations & trial run conducted for 7days as per the direction of dept. officers and 2 years of free maintenance. If any documentation is required, that should be arranged by the supplier.A). PUMP:-Supply, erection, testing and commissioning of Kirloskar reputed make centrifugal pumpsets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type of base plate with coupling ,coupling guard foundation bolts and nuts etc. complete suitable for coupling the pump and motor above the base<br&gt;plate etc complete including providing suitable concrete foundation including cost of cement, sand and metal etc complete the duty condition is as follows discharge - 15 lps, total head -145m, Speed -1460 rpm, < br&gt; (B). MOTOR:- supply, erection, testing and commissioning of Kirloskar reputed make horizontal solid shaft foot mounted TEFC squaral cage induction motor suitable for the above pump working 3 phase 50HZ AC supply, working voltage<br&gt;415 V / 3300 V . The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement, sand and metal etc complete. Flexible coupling shall be used for coupling of pumps and motors<br&gt; (C).STARTER:- Supply ,erection, testing and commissioning of dry type copper wound auto transformer having 40,60,80% taping mounded with powder coated 2 mm thick steel sheath dust and vermin proof floor mounted control cubical panel associated with in/out cable entry boxes for accommodating the following parameters for controlling functions of the the fully automatic auto transformer starter. suitable for above motor - L&T or equivalent reputed co. make MNX 225 contactor unit -1 No L&T or equivalent Co make MNX 95 contactor unit- 2 Nos Timer and supervisory trip relay 1 No OV/UV control relays Minilac or equivalent Co make single phasing preventer AVF digital meter 1 No and selector switch - 1 set ON/Off trip & samp; 3 phase indication lamps, Digital or numerical motor protection relay, Power Circuit wiring with 25 x 4mm PVC sleeve insulated copper bar and 2.5 sq.mm control wiring <br&gt; (D).PANNEL BOARD :- Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable rating of 3 pole MCCB as incomer providing suitable size Aluminium bus bar inter connect the above MCCB and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. complete and provided with duplicate earth point as per CEA regulation and code of practice. the panel shall be fitted on a common base frame on suitable foundation <br&gt;(E).CABLING WORK:- Supply, laying, testing and commissioning of suitable size Aluminium conductor armoured cables for the above pump set from panel board to starter and suitable size cable through PVC pipe, flexible hose and accessories from starter to motor considering energy conservation <br&gt; (F). EARTHING:-Supply of all material and providing duplicate earthing by 25 x 3mm copper strip on wall /column/floor/buried (Appx. 20 mtrs) in ground and giving double earthing to

Sl No	Specification	Quantity	Rate	Amount
	motor, starter, panel board etc. and combits (G). CAPACITOR:-Supply, erection, testing and commiss capacitor for the above motor to get confirm to IS 2834 < br> (H). VALVE:-Supply of suitable six fanged sluice valve and Non return valves shall include proper RCC suppositive suction pump set sluice val for easy repair works. Pressure gauge < br> < br> (I). SUCTION AND DELIVERY Plauitable size best quality MS pipe of 8 m (approx). suitable for the above connecting the suction pipe of size and bolts IR sheet etc. complete and 150mm MS pipe of thickness not le vales and suitable specials to connecting the suction pipe of size and suitable specials to connecting the suction pipe of size and suitable specials to connecting the suction pipe of size and suitable specials to connecting the specials to connecting the suitable specials to	ssioning suitable tunity <br&gt 8="" and="" be="" best="" both="" connecting="" especially="" for="" he="" in="" less="" mm="" not="" of="" on="" pport="" pump="" quality="" se<="" second="" ses="" set="" should="" suction="" suital="" td="" than="" the="" thickness="" valve="" ve="" with="" ze=""><td>rating of of heavy of power factor. The eavy duty ISI Market ble pressure rating. If for Non return valves on and delivery side and delivery side east than 8 mm for a uitable size foot valvalve with suitable delivery side of the ratotal length of 8</td><th>duty APP capacitor shall ed CI double itting of es. In case of elivery sides fitting of total length of ve and flanges, nut pump with</th></br&gt>	rating of of heavy of power factor. The eavy duty ISI Market ble pressure rating. If for Non return valves on and delivery side and delivery side east than 8 mm for a uitable size foot valvalve with suitable delivery side of the ratotal length of 8	duty APP capacitor shall ed CI double itting of es. In case of elivery sides fitting of total length of ve and flanges, nut pump with
	Net Total	2.000no	@623140.38/no	1246280.76
12.002	OD151128/2022-2023			
	Supply, erection & Department of the above pump working suitable for coupling that shoulding providing providing providing suitable for coupling the pump and including providing suitable for coupling the pump and including providing suitable concremetal etc complete the duty condition to the above pump working 3 phas voltage< br> 415 V / 3300 V . 12615-2018 including providing suitable to complete pumps and motors< br> (C).STARTER:- Supply , erection, t wound auto transformer having 40,6 mm thick steel sheath dust and verne complete the dust and verne coupling suitable suitable to complete the duty conditions and pumps and including providing suitable concremental etc complete the duty conditions. Supply a providing suitable concremental etc complete the duty conditions and the above pump working 3 phas woltage< br> 415 V / 3300 V . 12615-2018 including providing suitable complete pumps and motors< br> (C).STARTER:- Supply a prection, the wound auto transformer having 40,6 mm thick steel sheath dust and vernesses the start of the start of the supply and the supply are supply and the supply are supply and the supply a	a 3 LPS dischar 0/415V at 50 Hz sing with suitable of dry run, under coard with MCC over switch etc. etc. for wiring, earn & amp; delivery and erected & an and 2 years of full be arranged lanissioning of Kin, SS shaft and Clarge guard foundate motor above the te foundation incomis as follows of esting and communted TEFC squee 50HZ AC support The motor shall itable concrete for the string and common follows of the string and the string are string and the string and the string are string at the string are string at the	ge against 180 M he, 1450 rpm with broke, 150 rpm with grant productions and reconnections etc as ap; trial run conductive maintenance. If by the supplier. A rloskar reputed maked pump casing with ion bolts and nuts etc. base plateluding cost of cemedischarge - 3 lps, to dissioning of Kirlosk aral cage induction by, working confirm to IE2/IE3 bundation including ling shall be used for the supplier of the supplier	ead at its onze impeller, ncluding ge & amp; over r, Indicator ve motor pump GM/CI non per ISI and IE ted for 7days any ). PUMP:- te centrifugal suitable type tc. complete e etc complete ent, sand and tal head - tar reputed motor suitable as per IS cost of or coupling of pe copper er coated 2

Sl No	Specification	Quantity	Rate	Amount
	associated with in/out cable entry be for controlling functions of the the for above motor - L&T or equi-1 No L&T or equivalent Co msupervisory trip relay 1 No OV/UV single phasing preventer AVF digitatrip & 3 phase indication lamp Power Circuit wiring with 25 x 4mr control wiring (D).PANNEL BOARD: Supply, efloor mounted MS fabricated dust a consisting of 1 No. suitable rating of size Aluminium bus bar inter connectindicator lamps, 1 No. volt meter wswitch etc. complete and provided wand code of practice. the panel shall foundation (E).CABLING commissioning of suitable size Alupump set from panel board to starte flexible hose and accessories from salt;br> (F). EARTHING:-Supply of all material and providing wall /column/floor/buried (Appx. 20 mtr motor,starter,panel board etc. and coalled (G).CAPACITOR:-Supply,erection,testing and commiscapacitor for the above motor to get confirm to IS 2834 (H).VALVE:-Supply of suitable size fanged sluice valve and Non return valves shall include proper RCC suppositive suction pump set sluice valfor easy repair works. Pressure gauge  (I).SUCTION AND DELIVERY Plastitable size best quality MS pipe of material size best quality MS pipe of thickness not levales and suitable specials to connecting the suction pipe of size and bolts IR sheet etc. complete and 150mm MS pipe of thickness not levales and suitable specials to connecting the suction pipe of size and solts IR sheet etc. complete and 150mm MS pipe of thickness not levales and suitable specials to connecting the suction pipe of size and solts IR sheet etc. complete and 150mm MS pipe of thickness not levales and suitable specials to connecting the suction pipe of size and solts IR sheet etc. complete and 150mm MS pipe of thickness not levales and suitable specials to connecting the suction pipe of size and solts IR sheet etc. complete and 150mm MS pipe of thickness not levales and suitable specials to connecting the success and suitable specials to	oxes for accomination and surface of the above More of the above M	modating the following auto transformer star co. make MNX 225 contactor unit- 2 Nos Minilac or equivalent and selector switch - I merical motor protect insulated copper bar and commissioning of common control particles and fitted with tech, 1 No. Ammeter arth point as per CEA common base frame oply, laying, testing actor armoured cables size cable through P considering energy of the pressure rating of heavy of the pressure rating. It is a per considering to the pressure rating of the pressure rating	ng parameters ter. suitable contactor unit Timer and t Co make l set ON/Off ction relay and 2.5 sq.mm of cubical type anel board ang suitable 3 Nos of with selector A regulation on suitable and for the above VC pipe, conservation opper strip on aing to er IE standards duty APP capacitor shall ed CI double itting of es. In case of clivery sides fitting of total length of we and flanges, nut pump with m (approx),
12.002	Net Total	2.000no	@220286.28/no	440572.56
12.003		" FEET	111 1	
	Supply & Supply amp; installation of light for Supply, conveyance installation test following types made of CRCA with and lamps etc. directly on wall or contact the supplementary of the supplementary and lamps etc.	ing and commi h 0.5mm thickn	ssioning the light fitt less complete with al	l accessories

Sl No	Specification	Quantity	Rate	Amount
	the fitting and giving connection with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS and giving connections as required. 1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, RoHS compliant, high lumen tube.			
	Net Total	6.000no	@1055.99/no	6335.94
12.004	OD151298/2022-2023			
	Providing and fixing 25 mm X 5 mm connections etc. as required. As per	n copper strip o Databook DAF	on surface or in reces R Electrical-5.14.	s for
	Net Total	8.000metre	@1251.12/metre	10008.96
12.005	OD151299/2022-2023			
	25mm PVC Conduit- Supplying and conduit along with accessories in su making good the same in case of red Databook DAR Electrical-1.21.2.	rface/ recessing	cluding cutting the w	all and
	Net Total	6.000metre	@111.80/metre	670.80
12.006	OD151300/2022-2023	1700 CT		
	Wiring with 3x 4 sq mm FRLS PVC drawing following sizes of FRLS PV in the existing surface / recessed steedatabook DAR Electrical-1.17.21.	VC insulated co	opper conductor, sing	gle core cable
	Net Total	6.000metre	@144.35/metre	866.10
12.007	OD151301/2022-2023			
	12 Way MCB DB 240V -Supplying neutral, sheet steel, MCB distribution tinned copper bus bar, neutral bus be painted including earthing etc. as reway, Double door. As per Databook	on board, 240 V ar, earth bar, di quired. (But wi	, on surface/recess, on bar, interconnection thout MCBIRCCB/Is	complete with ns, powder
	Net Total	1.000no	@2060.67/no	2060.67
12.008	OD151302/2022-2023			
	SPN 5-32A MCB-Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable forinductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. asrequired. Single pole and netural .As per Databook DAR Electrical-2.10.2.			ad of sting and
	Net Total	2.000no	@675.08/no	1350.16
12.009	OD151303/2022-2023			
	DP Isolator 40A -Supplying and fix isolator in the existing MCB DB commissioning etc. as required. 40 and 10 are supplying and fix isolator in the existing MCB DB commissioning etc.	mplete withcon	nections, testing and	
	Net Total	1.000no	@420.34/no	420.34
12.010	OD151304/2022-2023			
	RCCB DP 40A - Supplying and fixi	ng following ra	ating, double pole, (s	ingle phase

Sl No	Specification	Quantity	Rate	Amount
	and neutral), 240 volts, residual current circuitbreaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps .  As per Databook DAR Electrical 2.14.2.			
	Net Total	1.000no	@2599.90/no	2599.90
12.011	OD151305/2022-2023			
	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copperconductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitableGI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Group B. As per Databook DAR Electrical 1.10.2.			m class PVC
	Net Total	14.000point	@970.89/point	13592.46
12.012	OD151306/2022-2023			
	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt as required. As per Data book Electrical 5.6			
	Net Total	1.000set	@14635.61/set	14635.61
12.013	OD151307/2022-2023	FORM FOR THE	MANAGEMENT	
	Expenses of getting electrical conne service charges, energization charg		EB including docume	entation fee,
	Net Total	1.000job	@19977.80/job	19977.80
12.014	OD151308/2022-2023			
	Supply, conveyance, installation and 300/305mm sweep in metal frame version making good the damages etc as recommendation.	vorking on 230'	V A/C 300 sweep inc	cluding
	Net Total	2.000no	@2633.90/no	5267.80
12.015	OD152566/2022-2023			
	Supply conveyance ,installation testing and commissioning of 36/40 W LED street/Yard light out put greater than 105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumilled/Nichea with powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium preasure die cast powder coated housing acryliccover complete with THD less than 10% power factor greater than 0.98 R0HS compliant duly wired up for use on 230v AC supply.Driver compartment should be separately accessible for maintanance(LM 79&80 Certificate from NABL acredited third party lab produced mentioning chip manufacturer)			
	Net Total	4.000no	@4546.00/no	18184.00
12.016	OD203362/2022-2023			
	Supply, delivery and fixing of 3 To working on single girder with overh	or suitable capa lead travelling t	city Electrically and rolley and clear lift a	manually as per site

Sl No	Specification	Quantity	Rate	Amount
	conditions for lifting the chemicals, supplied with one set of crane sling per the instruction of the Engineer i	s with GID sha	ckle and clamps etc.	
	Net Total	1.000no	@284722.27/no	284722.27
			Heading Total(Rs)	2067546.13
13	Electrification works and Supply sets at Jamespadi	erection testin	g and commissionin	ng of pump
13.001	OD149131/2022-2023			
	Supply, erection & amp; commission marked centrifugal pumpset having maximum efficiency working at 23 stainless steel shaft, CI/SS pump casuitable fully Automatic starter with current protection relay, MS panel blamps, voltmeter, ammeter, change set including necessary copper cablineturn & amp; sluice valves, suction regulations & amp; KSEB standard as per the direction of dept. officers documentation is required, that shot Supply, erection, testing and compumpsets with Bronze/SS impeller of base plate with coupling, coupling suitable for coupling the pump and including providing suitable concremetal etc complete the duty conditional to the above pump working 3 phase voltage & It; br & gt; (B). MOTOR: supply, erection, to make horizontal solid shaft foot more for the above pump working 3 phase voltage & It; br & gt; 415 V / 3300 V. 12615-2018 including providing succement, sand and metal etc complete pumps and motors & It; br & gt; (C). STARTER: Supply, erection, to wound auto transformer having 40, mm thick steel sheath dust and vern associated with in/out cable entry be for controlling functions of the the for above motor - L& amp; To requiral equivalent Consupervisory trip relay 1 No OV/UV single phasing preventer AVF digitation for the supervisory trip relay 1 No OV/UV single phasing preventer AVF digitation with 25 x 4mm control wiring & It; br & gt; (D). PANNEL BOARD: Supply, effoor mounted MS fabricated dust a consisting of 1 No. suitable rating of size Aluminium bus bar inter connections.	a 17 LPS disch 0/415V at 50 Hz sing with suitable over switch etce for wiring, ear & amp; delivery and erected & ar and 2 years of uld be arranged missioning of King Sa shaft and Congular guard foundation in on is as follows esting and communted TEFC squee 50HZ AC sup The motor shall itable concrete fie. Flexible couperstand and community and community and community and community and community and community automatic field	arge against 140 M hz, 1450 rpm with broole type base plate, in voltage, over voltage CB, ELCB, Capacitor suitable for the above thing, suitable size Cy connections etc as propertial run conduct free maintenance. If by the supplier. A irloskar reputed make I pump casing with stion bolts and nuts etc base plate cluding cost of cemeration case induction only, working confirm to IE2/IE3 foundation including bling shall be used for missioning of dry type mounded with powder mounted control cubic modating the following auto transformer star co. make MNX 225 contactor unit- 2 Nos Minilac or equivalent and selector switch- 1 merical motor protections and commissioning of formmon control part and commissioning of common control part and commissioning	nead at its onze impeller, icluding e & amp; over r, Indicator ve motor pump GM/CI non per ISI and IE ed for 7days any .). PUMP:-e centrifugal suitable type cc. complete etc. complete etc. complete etc. sand and otal head - tar reputed motor suitable as per IS cost of or coupling of the copper er coated 2 ical panel ng parameters ter. suitable contactor unit Timer and the Comake lest ON/Off ction relay and 2.5 sq.mm of cubical type unel board ng suitable

Sl No	Specification	Quantity	Rate	Amount
	indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. complete and provided with duplicate earth point as per CEA regulation and code of practice. the panel shall be fitted on a common base frame on suitable foundation (E).CABLING WORK:- Supply, laying, testing and commissioning of suitable size Aluminium conductor armoured cables for the above pump set from panel board to starter and suitable size cable through PVC pipe, flexible hose and accessories from starter to motor.considering energy conservation (F). EARTHING:- Supply of all material and providing duplicate earthing by 25 x 3mm copper strip on wall /column/floor/buried (Appx. 20 mtrs) in ground and giving double earthing to motor,starter,panel board etc. and connect with existing earthbus. As per IE standards (G).CAPACITOR:- Supply,erection,testing and commissioning suitable rating of of heavy duty APP capacitor for the above motor to get unity power factor . The capacitor shall confirm to IS 2834 (H).VALVE:- Supply of suitable size best quality heavy duty ISI Marked CI double fanged sluice valve and Non return valve with suitable pressure rating.fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works. Pressure gauge on both suction and delivery side			
	for easy repair works. Pressure gauge on both suction and delivery side  (I).SUCTION AND DELIVERY PIPE CONNECTIONS:- Supply and fitting of suitable size best quality MS pipe of thickness not less than 8 mm for a total length of 8 m (approx). suitable for the above pump set and suitable size foot valve and connecting the suction pipe of size 200mm MS and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with 150mm MS pipe of thickness not less than 8 mm for a total length of 8 m (approx), vales and suitable specials to connect with the pumping main			
	Net Total			1364974.16
13.002	OD151313/2022-2023			
	Supply & Description of light fittings on TW round block Supply, conveyance installation testing and commissioning the light fittings of following types made of CRCA with 0.5mm thickness complete with all accessories and lamps etc. directly on wall or ceiling with PVC round block neatly painted to suit the fitting and giving connection with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS and giving connections as required. 1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, RoHS compliant, high lumen tube.			
	Net Total	6.000no	@1055.99/no	6335.94
13.003	OD151314/2022-2023			
	Providing and fixing 25 mm X 5 mm connections etc. as required. As per			s for
	Net Total	8.000metre	@1251.12/metre	10008.96
13.004	OD151315/2022-2023			
	25mm PVC Conduit- Supplying and	d fixing of follo	wing sizes of mediu	m class PVC

	Specification	Quantity	Rate	Amount
	conduit along with accessories in su making good the same in case of rec Databook DAR Electrical-1.21.2.	rface/ recessing cessed conduit a	cluding cutting the was required. 25 mm.	all and As per
	Net Total	6.000metre	@111.80/metre	670.80
13.005	OD151316/2022-2023			
	Wiring with 3x 4 sq mm FRLS PVC drawing following sizes of FRLS PV in the existing surface / recessed steedatabook DAR Electrical-1.17.21.	VC insulated co	opper conductor, sing as required. 3 x 4 so	gle core cable q. mm As per
<u> </u>	Net Total	6.000metre	@144.35/metre	866.10
13.006	12 Way MCB DB 240V -Supplying neutral, sheet steel, MCB distribution tinned copper bus bar, neutral bus be painted including earthing etc. as receway, Double door. As per Databook	on board, 240 V ar, earth bar, di quired. (But wi DAR Electrica	, on surface/recess, on bar, interconnection thout MCBIRCCB/Inl-2.3.3.	complete with ons, powder solator 12
	Net Total	1.000no	@2060.67/no	2060.67
13.007	OD151318/2022-2023  SPN 5-32A MCB-Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable forinductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. asrequired. Single pole and netural .As per Databook DAR Electrical-2.10.2.			
	Net Total	2.000no	@675.08/no	1350.16
13.008	OD151319/2022-2023			
	DP Isolator 40A -Supplying and fix isolator in the existing MCB DB concommissioning etc. as required. 40 a	mplete withcon	nections, testing and atabook DAR Electr	ical-2.12.1.
	Net Total	1.000no	@420.34/no	420.34
13.009	OD151320/2022-2023			
	RCCB DP 40A - Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuitbreaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps .  As per Databook DAR Electrical 2.14.2.			
	Net Total	1.000no	@2599.90/no	2599.90
13.010	OD151321/2022-2023			
	Wiring for light point/ fan point/ ex FRLS PVC insulated copperconductor single co conduit, with modular switch, modular plate, sq.mm. FRLS PVC insulated copper conductor sin	re cable in surf	ace / recessed mediu	m class PVC

Sl No	Specification	Quantity	Rate	Amount		
	Databook DAR Electrical 1.10.2.					
	Net Total	14.000point	@970.89/point	13592.46		
13.011	OD151322/2022-2023					
	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt a required. As per Data book Electrical 5.6					
	Net Total	1.000set	@14635.61/set	14635.61		
13.012	OD151323/2022-2023					
	Expenses of getting electrical conne service charges, energization charg	ection from KSEB including documentation fee, ges etc				
	Net Total	1.000job	@19977.80/job	19977.80		
13.013	OD151324/2022-2023					
	Supply, conveyance, installation and commissioning of light duty Exhaust 300/305mm sweep in metal frame working on 230V A/C 300 sweep includ making good the damages etc as required as directed by the departmental o					
	Net Total	2.000no	@2633.90/no	5267.80		
13.014	OD152571/2022-2023					
	Supply conveyance ,installation testing and commissioning of 36/40 W LED street/Yard light out put greater than 105 lumen/watts 4000-6000K with IP66 protection with LED chip make cree/Lumilled/Nichea with powerfactor greater than 0.95 at full load ,internal surge protection up to 8 kv and alluminium preasure die cast powder coated housing acryliccover complete with THD less than 10% power factor greater than 0.98 R0HS compliant duly wired up for use on 230v AC supply.Driver compartment should be separately accessible for maintanance(LM 79&80 Certificate from NABL acredited third party lab produced mentioning chip manufacturer)					
	Net Total	4.000no	@4546.00/no	18184.00		
13.015	OD203364/2022-2023					
	Supply, delivery and fixing of 3 T or suitable capacity Electrically and manually working on single girder with overhead travelling trolley and clear lift as per site conditions for lifting the chemicals, Chlorine, pumps etc and fitting as required, supplied with one set of crane slings with GI D shackle and clamps etc. complete as per the instruction of the Engineer in charge. Liptwegt;					
	Net Total	1.000no	@284722.27/no	284722.27		
			Heading Total(Rs)	1745666.97		
		105275384.6 5				
15	Extra Charges					
	Provision for GST					
14.001		105275384.65	18.00%	18949569.2 4		

Sl No	Specification	Quantity	Rate	Amount	
			Grand Total	124224953. 89	
			Round off	5046.11	
			Rounded Total(Rs)	124230000.0	
	Rupees Twelve Crore Forty Two Lakh Thirty Thousand				

