

Detailed Estimate

KIIFB Project: TRAN 10: WRD025-06 - WSS to Ayyappankovil Panchayat - Part II
,Package I - Design and construction of electrical control rooms at raw water pump
house and treatment plant compound, supply, erection and commissioning of
transformers and allied works (1) 500KVA at Thonithady raw water pump
house,(2)400 KVA at WTP compound, supply erection and commissioning of motor
pump sets at RWPH, treatment plant sump pump house, Kalthotty pump house and
Nariyanpara intermediate P H etc.

(Dsr year: 2018)

Sl No	Description	No	L	B	D	CF	Quantity	Remark	
1 Civil Works.(a) Design and Construction of Electrical Control room, RCC Columns with foot bridge to Thonithady Raw water pumping station(1) Control room and foot bridge. (Cost Index:41.53 %)									
1	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								
		1	30.000	30.000			900.000		
		Total Quantity						900.000 sqm	
		Total Deducted Quantity						0.000 sqm	
		Net Total Quantity						900.000 sqm	
		Say 900.000 sqm @ Rs 15.43 / sqm						Rs 13887.00	
2	15.7.4 Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.In cement mortar								
	Demolishing Brick work for providing shutter for pump house	1	2.000	0.200	3.000		1.201		
		Total Quantity						1.201 cum	
		Total Deducted Quantity						0.000 cum	
		Net Total Quantity						1.201 cum	
		Say 1.201 cum @ Rs 1805.99 / cum						Rs 2168.99	
3	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								
	For levelling	1	20.000	15.000	1.200		360.000		
	foundation for toilet	1	7.300	0.600	0.450		1.971		
	Soak pit	3.14	1.900	1.900	1.800	0.25	5.101		
	Septic tank	1	3.700	2.500	2.000		18.500		
	Column footing	38	1.500	1.500	1.500		128.250		
	Total Quantity						513.822 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						513.822 cum		
	Say 513.822 cum @ Rs 309.95 / cum						Rs 159259.13		
4	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)								
	Foundation for steps for toilet	1	1.300	0.300	0.300		0.117		
	Foundation for toilet	1	7.300	0.600	0.450		1.971		
	Basement of toilet	1	7.400	0.450	0.450		1.499	Inside dia-1.00m	
	Soak pit	1	1.450	0.450	1.650	3.14	3.381	Inside dia-1.00m	
	Total Quantity						6.968 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						6.968 cum		
	Say 6.968 cum @ Rs 7520.41 / cum						Rs 52402.22		
5	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)								
	base for short column (Foot bridge)	10	1.500	1.500	0.100		2.250		
	base for long columns (Foot bridge)	20	1.500	1.500	0.100		4.500		

	base for column for control room	8	1.500	1.500	0.100		1.800	Total 12Nos, 4nos included in long column (Foot bridge)	
	flooring toilet	1	2.100	1.500	0.100		0.316	including wearing course above RR	
	DPC toilet	1	8.000	0.200	0.050		0.081		
	Septic tank base (foundation)	1	2.700	1.500	0.200		0.811		
	Soak pit over rubble masonry	1	1.450	0.450	0.050	3.14	0.103	Inside dia of pit- 1.00m, rubble masonry thickness- 0.45m	
Kerala Water Authority							Total Quantity	9.861 cum	
							Total Deducted Quantity	0.000 cum	
							Net Total Quantity	9.861 cum	
							Say 9.861 cum @ Rs 7690.32 / cum	Rs 75834.25	
6	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								
	Control room	1	30.800	0.200	4.300		26.488		
	Parapet	1	32.000	0.100	0.600		1.920		
	step for toilet	1	1.200	0.600	0.150		0.108		
	step for toilet	1	1.200	0.300	0.150		0.054		
	toilet	1	8.000	0.200	2.500		4.000		
	for renewing shutter	1	2.000	0.200	3.000		1.201		
	rolling shutter (controlroom)	1	3.000	0.200	3.500		-2.100		

	windows (control room)	5	1.100	0.200	1.500		-1.650		
	ventilator (toilet)	1	0.800	0.200	0.400		-0.064		
	toilet door	1	0.800	0.200	1.800		-0.288		
	column	10	0.400	0.200	4.100		-3.280		
	Lintel	1	30.800	0.200	0.200		-1.232		
	Total Quantity						33.771 cum		
	Total Deducted Quantity						-8.614 cum		
	Net Total Quantity						25.157 cum		
	Say 25.157 cum @ Rs 7784.73 / cum						Rs 195840.45		
7	<p>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</p>								
	For control room	1	3.000		3.500		10.500		
	For pump house	1	2.400		3.000		7.200		
	Total Quantity						17.700 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						17.700 sqm		
	Say 17.700 sqm @ Rs 3617.29 / sqm						Rs 64026.03		
8	<p>10.5.1 Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.Using M.S. angels 40x40x6 mm for diagonal braces</p>								
	Door for toilet	1	1.000		1.800		1.800		
	Total Quantity						1.800 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						1.800 sqm		
	Say 1.800 sqm @ Rs 5440.63 / sqm						Rs 9793.13		
9	<p>50.9.1.3 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). using good quality Vengai wood</p>								

	Windows (horizontal) for control room	5*2	1.250	0.075	0.075		0.071		
	Windows (vertical) for control room	5*4	1.500	0.075	0.075		0.169		
	Ventilators (horizontal) for toilet	1*2	0.950	0.075	0.075		0.011		
	Ventilators (vertical) for toilet	1*2	0.400	0.075	0.075		0.005		
	Total Quantity						0.256 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						0.256 cum		
	Say 0.256 cum @ Rs 80265.15 / cum						Rs 20547.88		
10	50.9.2.3 Providing and fixing paneled or paneled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws, excluding paneling which will be paid for separately, all complete as per direction of Engineer in -charge.using Vengai wood								
	windows	5	1.000	1.500			7.500		
	ventilator	1	0.800	0.400			0.321		
	Total Quantity						7.821 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						7.821 sqm		
	Say 7.821 sqm @ Rs 2666.62 / sqm						Rs 20855.64		
11	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								
	plinth beam for short column of bridge (main)	8	3.170	0.400	0.400		4.058	portion between columns	
	plinth beam for long column of bridge (main-2.6m)	12	2.600	0.400	0.400		4.993	portion between columns	

	plinth beam for long column of bridge(main -3.17m)	8	3.170	0.400	0.400		4.058	portion between columns	
	plinth beam for long column of bridge (tie beam)	15	1.500	0.400	0.400		3.601	portion between columns	
	plinth beam for control room (long)	6	2.600	0.400	0.400		2.497	portion between columns	
	plinth beam for control room (short)	8	2.600	0.400	0.400		3.329	portion between columns	
	column footing for long columns-Ist step	28	1.400	1.400	0.500		27.440		
	column footing for long columns-IIInd step	28	1.200	1.200	0.300		12.096		
	column portion for below ground level	28	0.400	0.400	0.600		2.689		
	column footing for short column for Ist level	10	1.400	1.400	0.500		9.800		
	column footing for short column for Ind level	10	1.200	1.200	0.300		4.320		
	column portion for below ground level	10	0.400	0.400	0.600		0.961		
	Total Quantity						79.842 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						79.842 cum		
	Say 79.842 cum @ Rs 9825.93 / cum						Rs 784521.90		
12	<p>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</p>								

floor slab and roof slab of control room	2	9.700	6.700	0.150		19.497	
slab for bridge	1	25+15.5	2.200	0.150		13.365	
beam under bridge slab(cross)	15	1.500	0.300	0.400		2.700	
beam under bridge slab(longitudinal)	2	25+15.5	0.300	0.400		9.720	
tie beams for bridge column(short)	5	1.500	0.250	0.300		0.563	
tie beams for bridge column(long)	2*10	1.500	0.250	0.300		2.250	
beam for roof slab short	1*8	2.600	0.300	0.300		1.872	
beam for roof slab long	1*3	9.400	0.300	0.300		2.538	
beam under floor slab of control room-long	1*2	9.400	0.400	0.400		3.009	
beam under floor slab of control room-short	1*8	2.600	0.400	0.400		3.329	
Intermediate beams(long & short colums)	2	(25+15.5)	0.250	0.300		6.075	Tie beam under control room
Intermediate beams(long colums - addl- (25+15.5-14.287)	2	26.220	0.300	0.400		6.293	Tie beam under control room
Intermediate beams for control room-short	2*8	2.600	0.300	0.400		4.993	Tie beam under control room
Intermediate beams for control room-long	2*2	9.400	0.300	0.400		4.512	Tie beam under control room
long columns	28	0.400	0.400	8.000		35.840	
short columns	10	0.400	0.400	4.500		7.201	
control room columns	12	0.400	0.300	4.500		6.480	

	column beam junctions	10*3	0.400	0.400	0.300		-1.440	
	floor slab beam	10	0.400	0.400	0.400		-0.640	
	beam roof slab	10	0.400	0.300	0.400		-0.480	
	Total Quantity						130.237 cum	
	Total Deducted Quantity						-2.560 cum	
	Net Total Quantity						127.677 cum	
	Say 127.677 cum @ Rs 11550.40 / cum						Rs 1474720.42	
13	5.34.1 Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).							
	Qty same as item code 5.33.1& 5.33.2 (79.112+117.376)	1	79.842+127.677				207.519	
	Total Quantity						207.519 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						207.519 cum	
	Say 207.519 cum @ Rs 85.70 / cum						Rs 17784.38	
14	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)							
	Lintel	1	30.800	0.200	0.200		1.233	
	sun shade	1	34.400	0.700	0.100		2.408	
	cantilever slab	1	6.000	2.000	0.150		1.800	
	roof slab of latrine	1	3.500	2.900	0.100		1.016	
	lintel of latrine	1	8.000	0.200	0.200		0.321	
	cantilever beam nr PH	2	2.000	0.300	0.300		0.360	
	beam over shutter	2	3.300	0.250	0.300		0.495	
	side wall of septic tank	1	7.800	0.150	1.350		1.580	wall thickness-15cm, inside size 2.40x1.20 x1.35m

	floor of septic tank	1	2.700	1.500	0.150		0.608		
	Baffle wall of septic tank	2	1.200	0.100	1.100		0.264		
	cover slab for septic tank	1	2.700	1.500	0.150		0.608		
	cover slab for sock pit (3.14x1.90x1.90x0.15/4)	1	1.900	1.900	0.150	0.79	0.428		
	top of sock pit RR masonry	3.14	1.900	0.450	0.005		0.014		
	Total Quantity						11.135 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						11.135 cum		
	Say 11.135 cum @ Rs 11433.93 / cum						Rs 127316.81		
15	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more								
	110kg@1m3								
	Item No.11	1	79.842			110.0	8782.620		
	Item No.12	1	127.677			110.0	14044.471		
	Item No.14	1	11.135			110.0	1224.850		
	Total Quantity						24051.941 kilogram		
	Total Deducted Quantity						0.000 kilogram		
	Net Total Quantity						24051.941 kilogram		
	Say 24051.941 kilogram @ Rs 102.61 / kilogram						Rs 2467969.67		
16	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete								
	column footing for long columns-Ist step	28	1.400*4			0.500	78.400		
	column footing for long columns-IIInd step	28	1.2*4			0.300	40.320		
	column portion for below ground level	28	0.400*4			0.600	26.880		

	column footing for short column for 1st level	10	1.400*4		0.500		28.000		
	column footing for short column for 1nd level	10	1.2*4		0.300		14.400		
	column portion for below ground level	10	0.400*4		0.600		9.600		
	Total Quantity							197.600 sqm	
	Total Deducted Quantity							0.000 sqm	
	Net Total Quantity							197.600 sqm	
	Say 197.600 sqm @ Rs 350.00 / sqm							Rs 69160.00	
17	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform								
	sun shade bottom	1	34.400	0.700			24.080		
	sun shade side	1	37.200		0.100		3.721		
	cantilever slab bottom	1	6.000	2.000			12.000		
	cantilever slab side	1	6+2		0.150		1.200		
	roof slab of latrine (inside of latrine)	1	2.100	1.500			3.151		
	roof slab of latrine (outside projection)	1	10.800	0.500			5.400		
	roof slab of latrine sides	1	12.800		0.100		1.281		
	slab for bridge	1	25+15.5	2.500			101.250		
		1*2	25+15.5		0.150		12.150		
	control room Floor & roof slab	2	9.700	6.700			129.980		
		2	9.7*2+6.7* 2		0.150		9.840		
	cover slab for septic tank	1	4.400	2.400			10.560		
		1	4.4*2+2.4* 2		0.150		2.040		
	soak pit cover slab	3.14	1.000	1.000			3.140		

	soak pit cover slab side	3.14	1.900		0.150		0.895		
	side wal of septic tank inside	1	2.10*2+1.50*2	1.3500			9.720		
	out side	1	2.50*2+1.90*2	1.500			13.201		
	baffle wall	2*2	1.200	1.100			5.280		
		Total Quantity					348.889 sqm		
		Total Deducted Quantity					0.000 sqm		
		Net Total Quantity					348.889 sqm		
		Say 348.889 sqm @ Rs 851.52 / sqm					Rs 297085.96		
18	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers								
	Lintel (control room)	2	30.800		0.200		12.320		
	Lintel (latrine)	2	8.000		0.200		3.200		
	cantilever beam nr PH	2	2.000	0.300			1.200		
		2	2.000		(0.3-0.15)/2		0.300		
	beam over shutter	2	3.300	0.250			1.650		
		2	3.300		0.600		3.960		
	beam under bridge slab(cross)	15	1.500	0.400			9.001		
		15	1.500		0.800		18.001		
	beam under bridge slab(longitudinal)	2	25+15.5	0.300			24.300		
	beam under bridge slab(longitudinal)	2	25+15.5		0.800		64.800		
	tie beams for bridge column(short)	1*5	1.500	0.250			1.875		
		1*5	1.500		0.600		4.500		
	tie beams for bridge column(long)	2*10	1.500	0.250			7.500		
		2*10	1.500		0.600		18.000		
	beam under floor slab of control room	2	9.400	0.400			7.521		

		2	9.400		0.800		15.041	
		8	2.600	0.400			8.320	
		8	2.600		0.800		16.640	
	beam for roof slab cross	8	2.600	0.300			6.240	
		8	2.600		0.600		12.480	
	beam for roof slab long	3	9.400	0.300			8.460	
	beam for roof slab long	3	9.400		0.600		16.920	
	Intermediate beams (longitudinal-long+short colums)	2	(25+15.5)	0.300			24.300	
		2	(25+15.5)		0.800		64.800	
	Intermediate beams-(addl long colums)	2	26.200	0.300			15.720	
		2	26.200		0.800		41.920	
	Intermediate beams-control room	2*8	2.600	0.300			12.480	
		2*8	2.600		0.800		33.280	
	long beams	2*2	9.400	0.300			11.280	
		2*2	9.400		0.800		30.081	
	plinth beam (long+short colums)_	2	(25.0+15.5)	0.400			32.400	
		2	(25.0+15.5)		0.800		64.800	
	-do- tie beam	1*15	1.500	0.400			9.001	
		1*15	1.500		0.800		18.001	
	plinth beam for control room- Addl	2	9.800	0.400			7.841	
		2	9.800		0.800		15.681	
	control room	8	2.600	0.400			8.320	
		8	2.600		0.800		16.640	
		Total Quantity					668.774 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					668.774 sqm	

	Say 668.774 sqm @ Rs 678.28 / sqm						Rs 453616.03	
19	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	column long	28	1.600		8.000		358.401	
	column short	10	1.600		4.500		72.000	
	Total Quantity						430.401 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						430.401 sqm	
	Say 430.401 sqm @ Rs 901.48 / sqm						Rs 387997.89	
20	13.7.1 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)							
	ceiling of roof slab and bottom of floor slab	2	9.700	6.700			129.980	
	top of roof slab	1	9.700	6.700			64.990	
	Sides of roof slab and floor slab	2	9.70*2+6.70*2		0.150		9.840	
	Roof slab of toilet top	1	3.500	2.900			10.150	
	Roof slab of toilet ceiling	1	2.100	1.500			3.151	
	Roof slab of toilet sides	1	3.50*2+2.90*2		0.100		1.281	
	Roof slab of toilet bottom of projection	1	10.800	0.500			5.400	
	floor finishing (control room)	1	9.000	6.000			54.000	
	floor finishing (control room) front to bridge	1	3.000	2.000			6.000	
	sun shade top and bottom	2	34.400	0.700			48.160	
	sun shade side	1	37.200		0.100		3.721	
	baffle walls of septic tank	2	2*(1.1+0.10)		1.2000		5.761	
	side wall of septic tank (inside)	1	2.4*2+1.2*2		1.350		9.720	

	roof top of existing intake well pump house	1	3.14*6.65	6.650		0.25	34.715	to avoid leaking of intake well roof
	cantilever beam sides and bottom	2	2.000		0.900		3.600	
	beam over shutter	2	3.300		0.600		3.960	
	beam under bridge slab(cross) 2 sides and bottom	15	1.500		.3*2+.4		22.500	
	beam under bridge slab(longitudinal) 2 sides and bottom	2	25+15.5		.3*2+.4		81.000	
	tie beam -cross for bridge column(short & long) around	15	1.500		1.100		24.751	
	tie beam -longitudinal for bridge (long & short)	2	(25+15.500)		1.100		89.101	
	plinth beam for bridge column(short) around	15	1.500		1.600		36.001	
	tie beam-cross for bridge column(long) around	1*10	1.500		1.100		16.500	
	tie beam-longitudinal for bridge (long)	2	26.200		1.100		57.640	
	plinth beam for bridge column(long & short) around	2	(25+15.500)		1.600		129.600	
	beam for roof slab short	4	2.750		0.900		9.900	
	beam for roof slab long	1*3	2.750		0.900		7.426	
	long beam and short beam over wall bottom projection (inside of room)	1	30.000	0.100			3.000	
	beam under floor slab of control room-long	1*2	9.400		1.200		22.560	

	beam under floor slab of control room-short	1*8	2.600		1.200		24.960	
	Intermediate beams for control room-short	2*8	2.600		1.400		58.240	
	Intermediate beams for control room-long	2*3	9.400		1.400		78.961	
	long columns	28		1.600	8.000		358.401	
	short columns	10		1.600	4.500		72.000	
	control room columns (inside)	2		1.400	4.200		11.760	
	control room columns (projections of outer columns)	6*2		0.100	4.200		5.041	
							Total Quantity	1503.771 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	1503.771 sqm
							Say 1503.771 sqm @ Rs 418.79 / sqm	Rs 629764.26
21	13.8.2 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix:1: 4 (1 cement : 4 fine sand)							
	wall of control room inside	1	30.000		4.500		135.000	
	wall of control room outside	1	31.600		4.500		142.201	
	parapet inside, top and outside	1	32.400		1.300		42.120	
	toilet outside	1	8.800		2.800		24.640	
	toilet inside	1	7.200		2.800		20.160	
	basement of toilet	1	9.200		0.450		4.140	
	shutter gap	1	2.000	3.000	3.500		-21.000	
	window	5	1.100	1.500			-8.250	
	ventilator	1	0.800	0.400			-0.320	
	door for toilet	1	0.800		1.800		-1.440	
							Total Quantity	368.261 sqm
							Total Deducted Quantity	-31.010 sqm
							Net Total Quantity	337.251 sqm

		Say 337.251 sqm @ Rs 453.75 / sqm				Rs 153027.64	
22	13.44.1 Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)						
	wall of control room(inside)	1	30.000		4.500		135.000
	wall of control room outside	1	31.600		4.500		142.201
	parapet inside, top and outside	1	32.400		1.300		42.120
	ceiling of control room roof slab and bottom of floor slab	2	9.700	6.700			129.980
	sides of roof slab and floor slab	2	$\frac{9.7*2+6.7*2}{2}$		0.150		9.840
	roof slab and floor slab projection bottom	2	32.200	0.150			9.660
	sun shade of control room (bottom)	1	34.400	0.700			24.080
	sun shade of control room (side around)	1	37.200		0.100		3.721
	toilet wall outside	1	8.800		2.800		24.640
	toilet wall inside	1	7.200		2.800		20.160
	basement of toilet	1	9.200		0.450		4.140
	ceiling of toilet	1	2.100	1.500			3.151
	roof slab of toilet sides	1	$\frac{3.5*2+2.9*2}{2}$		0.100		1.281
	roof slab of toilet projection bottom	1	10.800	0.500			5.400
	cantilever beam	2	2.000		0.900		3.600
	beam over shutter	2	3.300		0.600		3.960
	beam under bridge slab(cross)	15	1.500		1.200		27.000
	beam under bridge slab(longitudinal)	2	25+15.5		1.200		97.200
	tie beams cross for bridge column(short & long)	15	1.500		1.100		24.751

tie beams long. for bridge column(short & long)	2	25+15.5		1.100		89.101	
tie beams cross for bridge column(long)	1*10	1.500		1.100		16.500	
tie beam longi. for bridge column(long)	2	26.200		1.100		57.640	
plinth beam cross for bridge (long & short)	15	1.500		0.4*3		27.001	
plinth beam Longit. for bridge (long & short)	2	25.000+15.5		0.4*3		97.201	
beam for roof slab short (intermediate beams)	2*2	2.750		(0.3+0.3)		6.600	
beam for roof slab long (intermediate beams)	1*3	2.750		(0.3+0.3)		4.950	
beam under floor slab of control room-long	1*2	9.400		(0.4+0.4)		15.041	
beam under floor slab of control room-short	1*8	2.600		(0.4+0.4)		16.640	
Intermediate beams for control room-short	2*8	2.600		1.400		58.240	
Intermediate beams for control room-long	2*3	9.400		1.400		78.961	
long columns	28		1.600	8.000		358.401	
short columns	10		1.600	4.500		72.000	
control room columns	8		1.400	4.500		50.400	
shutter gap of control room 2 sides	2	3.000		3.500		-21.000	
window	5	1.100		1.500		-8.250	
ventilator of toilet	1	0.800		0.400		-0.320	
door of toilet	1	0.800		1.800		-1.440	
						Total Quantity	1660.561 sqm
						Total Deducted Quantity	-31.010 sqm
						Net Total Quantity	1629.551 sqm
						Say 1629.551 sqm @ Rs 112.09 / sqm	Rs 182656.37

23	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work								
	Wall	2	3.140	3.600	1.000	3.5	79.128		
	PH inside	2	3.140	3.000	4.500		84.780		
	PH outside	2	3.140	3.600	4.500		101.736		
	PH ceiling	1	3.140	3.000	3.000		28.260		
	Sunshade bottom & Floor proj. bottom	2	3.140	6.650	0.700		29.234		
	Total Quantity						323.138 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						323.138 sqm		
	Say 323.138 sqm @ Rs 158.02 / sqm						Rs 51062.27		
24	13.37.1 White washing with lime to give an even shade:New work (three or more coats)								
	top of roof slab inside parapet(control room)	1	9.200	6.200			57.040		
	top of sunshade (control room)	1	34.400	0.700			24.080		
	top of roof slab (toilet)	1	3.500	2.900			10.150		
	roof top of existing intake well	1	3.800	3.800		3.14	45.342		
	sun shade top of existing intake well	1	6.650	0.700		3.14	14.617		
	Total Quantity						151.229 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						151.229 sqm		
	Say 151.229 sqm @ Rs 35.10 / sqm						Rs 5308.14		
25	13.50.3 Applying priming coat:With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works								
	shutter primer coating -Cf-1.1	4	3.000		3.500	1.1	46.200		
	Total Quantity						46.200 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						46.200 sqm		

	Say 46.200 sqm @ Rs 62.27 / sqm						Rs 2876.87	
26	13.48.3 Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture							
	rolling shutter	4	3.000	3.500	1.100		46.200	
	window	5	1.100	1.500	1.100		9.076	
	Total Quantity						55.276 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						55.276 sqm	
	Say 55.276 sqm @ Rs 154.62 / sqm						Rs 8546.78	
27	13.71 Lettering with black Japan pint of approved brand and manufacture							
	letters of height 25cm	100			25.000		2500.000	
	Total Quantity						2500.000 Letterxcm ht	
	Total Deducted Quantity						0.000 Letterxcm ht	
	Net Total Quantity						2500.000 Letterxcm ht	
	Say 2500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht						Rs 14500.00	
28	11.21.1.1 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and /or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)Acid and alkali resistant tile							
	floor tiles of toilet	1	2.100	1.500			3.151	
	door portion	1	0.800	0.200			0.161	
	Total Quantity						3.312 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						3.312 sqm	
	Say 3.312 sqm @ Rs 1836.85 / sqm						Rs 6083.65	
29	11.21.2.1 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and /or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.In dado/ skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)Acid and alkali resistant tile							
	tiles wall of toilet	1	7.200	1.800			12.960	

							Total Quantity	1.000 No
							Total Deducted Quantity	0.000 No
							Net Total Quantity	1.000 No
							Say 1.000 No @ Rs 80000.00 / No	Rs 80000.00
34	od173455/2020_2021 Providing and fixing MS hook of 22mm dia, bend to shape in RCC slab (ceiling of control room) or beam as per standards including painting the exposed portion							
	Providing MS hook in the ceiling of control room							
	MS hook	12						12.000
							Total Quantity	12.000 No
							Total Deducted Quantity	0.000 No
							Net Total Quantity	12.000 No
							Say 12.000 No @ Rs 301.61 / No	Rs 3619.32
35	10.16.2 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes							
	Hand rails for bridge-(MS steel bar-3.16kg/m)							
	longitudinal-3 layer both side	2*3	25+15.5				3.16	767.880
	vertical-2m spacing-both side	2*21			0.750		3.16	99.540
	gate for bridge-(MS steel bar-3.16kg/m)							
	longitudinal-3 layer both side	4	1.200				3.16	15.168
	vertical-2m spacing-both side	12			0.750		3.16	28.440
							Total Quantity	911.028 kg
							Total Deducted Quantity	0.000 kg
							Net Total Quantity	911.028 kg
							Say 911.028 kg @ Rs 193.47 / kg	Rs 176256.59
SI No	Description	No	L	B	D	CF	Quantity	Remark
2Civil Works.(a) Construction of Electrical Control room, RCC Columns with foot bridge to Thonithady Raw water pumping station-(3)Construction of waste water drain. (Cost Index:41.53 %)								

1	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	1	50.000	2.000			100.000	
		Total Quantity					100.000 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					100.000 sqm	
		Say 100.000 sqm @ Rs 15.43 / sqm					Rs 1543.00	
2	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	1	45.000	1.700	0.500		38.250	
		Total Quantity					38.250 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					38.250 cum	
		Say 38.250 cum @ Rs 309.95 / cum					Rs 11855.59	
3	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)	1	45.000	1.700	0.250		19.125	
		Total Quantity					19.125 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					19.125 cum	
		Say 19.125 cum @ Rs 7520.41 / cum					Rs 143827.84	
4	5.1.3 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1	45.000	2.600	0.100		11.701	
		Total Quantity					11.701 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					11.701 cum	
		Say 11.701 cum @ Rs 8964.72 / cum					Rs 104896.19	

5	5.9.2 Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.							
	inside of drain	2	45.000		0.450	1.1	44.551	
	outside of drain	2	45.000		0.550	1.1	54.451	
	Total Quantity						99.002 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						99.002 sqm	
	Say 99.002 sqm @ Rs 748.62 / sqm						Rs 74114.88	
6	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
	steel reinforcement @ 60kg/m3 of concrete	1	11.701			0.6	7.021	
	Total Quantity						7.021 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						7.021 kilogram	
	Say 7.021 kilogram @ Rs 102.61 / kilogram						Rs 720.42	
7	13.7.2 12 mm cement plaster finished with a floating coat of neat cement of mix:1:4 (1 cement : 4 fine sand)							
	drain inside and outside	1	45.000	3.700			166.500	
	Total Quantity						166.500 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						166.500 sqm	
	Say 166.500 sqm @ Rs 403.29 / sqm						Rs 67147.79	
SI No	Description	No	L	B	D	CF	Quantity	Remark
3Civil works-(b)Construction of Electrical Control room at water treatment plant site Alady and approach road work..(1)Construction of control room . (Cost Index:41.53 %)								
1	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							
		1	15.000	10.000			150.000	
	Total Quantity						150.000 sqm	
	Total Deducted Quantity						0.000 sqm	

	Net Total Quantity						150.000 sqm	
	Say 150.000 sqm @ Rs 15.43 / sqm						Rs 2314.50	
2	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							
	For levelling	1	20.000	15.000	0.500		150.000	
	Foundation	1	30.800	0.800	0.600		14.784	
	for ramp	1	3.000	0.800	0.450		1.081	
	Foundation for column	12	1.500	1.500	1.300		35.100	
	Total Quantity						200.965 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						200.965 cum	
	Say 200.965 cum @ Rs 309.95 / cum						Rs 62289.10	
3	2.7.2 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Hard rock (requiring blasting)							
	Requiring blasting							
	foundation of column	12	1.500	1.500	0.200		5.400	
	Total Quantity						5.400 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						5.400 cum	
	Say 5.400 cum @ Rs 749.05 / cum						Rs 4044.87	
4	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)							
	Foundation	1	30.800	0.600	0.600		11.088	
	Basement	1	30.800	0.450	0.450		6.238	
	Ramp foundation	1	3.000	0.800	0.450		1.081	
	Total Quantity						18.407 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						18.407 cum	

	Say 18.407 cum @ Rs 7520.41 / cum						Rs 138428.19
5	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	For column foundation bottom	12	1.500	1.500	0.100		2.700
	for wall foundation bottom	1	30.800	1.700	0.100		5.237
	DPC	1	30.800	0.450	0.100		1.387
	Flooring	1	9.000	6.000	0.100		5.400
	Total Quantity						14.724 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						14.724 cum
	Say 14.724 cum @ Rs 7690.32 / cum						Rs 113232.27
6	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						
	control room	1	30.800	0.200	4.500-0.3		25.873
	parapet	1	33.200	0.100	0.600		1.992
	For rolling shutter	1	3.000	0.200	3.000		-1.800
	windows	5	1.100	0.200	1.500		-1.650
	column	10	0.200	0.200	4.500		-1.800
	intel	1	30.800	0.200	0.200		-1.232
	Total Quantity						27.865 cum
	Total Deducted Quantity						-6.482 cum
	Net Total Quantity						21.383 cum
	Say 21.383 cum @ Rs 7784.73 / cum						Rs 166460.88
7	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						

		1	3.000	3.000	1.000		9.000	
	Total Quantity						9.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						9.000 sqm	
	Say 9.000 sqm @ Rs 3617.29 / sqm						Rs 32555.61	
8	<p>21.1.1.1 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing, paneling and dash fasteners to be paid for separately):For fixed portionAnodised aluminium (anodised transparent or dyed to required shade according to IS : 1868, Minimum anodic coating of grade AC 15)</p>							
	windows-horizontal member	2	1.350			1.75	4.726	including wastage
	vertical member	3	1.650			1.75	8.663	
	Total Quantity						13.389 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						13.389 kg	
	Say 13.389 kg @ Rs 520.90 / kg						Rs 6974.33	
9	<p>21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness</p>							
		5	1.000	1.500			7.500	
	Total Quantity						7.500 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						7.500 sqm	
	Say 7.500 sqm @ Rs 1228.20 / sqm						Rs 9211.50	
10	<p>5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size</p>							
	column footing 1st step	12	1.400	1.400	0.300		7.056	

	column footing IIInd step	12	1.200	1.200	0.200		3.456	
	columnn portion for below ground level	12	0.300	0.300	0.300		0.324	
	Total Quantity						10.836 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						10.836 cum	
	Say 10.836 cum @ Rs 9483.15 / cum						Rs 102759.41	
11	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)							
	Lintel	1	30.800	0.200	0.200		1.233	
	slab	1	9.600	6.600	0.150		9.504	
	sunshade	1	34.400	0.700	0.100		2.408	
	beams	3	9.400	0.300	0.400		3.384	
		8	2.750	0.300	0.400		2.640	
	beams over shutter	1	3.200	0.300	0.250		0.240	
	For ramp	1	5.000	3.000	0.150		2.250	
	For column	12	0.300	0.300	4.100		4.428	
	Total Quantity						26.087 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						26.087 cum	
	Say 26.087 cum @ Rs 11433.93 / cum						Rs 298276.93	
12	5.22A.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level.Thermo - Mechanically Treated bars of grade Fe-500D or more							
	qty item code 5.1.2	1	10.836			110.0	1191.960	
	qty item code 5.2.2	1	26.087			110.0	2869.570	excluding ramp
	Total Quantity						4061.530 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						4061.530 kg	
	Say 4061.530 kg @ Rs 102.61 / kg						Rs 416753.59	
13	5.9.1							

	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete								
	column footing	12	1.4*4	0.300			20.160	additional 10% for vertical	
		12	1.2*4	0.200			11.520		
		12	.3*4	0.300			4.320		
	Total Quantity						36.000 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						36.000 sqm		
	Say 36.000 sqm @ Rs 350.00 / sqm						Rs 12600.00		
14	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform								
	sunshade	1	33.200	0.700			23.241		
	side	1	33.600		0.100		3.361	10% extra form work for vertical side	
	roof slab	1	9.700	6.700			64.990		
	side	1	32.800		0.150		4.920		
	ramp bottom	1	5.000	3.000	0.150		2.250		
	ramp side	2	5.000	0.150	0.150		0.225		
	Total Quantity						98.987 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						98.987 sqm		
	Say 98.987 sqm @ Rs 851.52 / sqm						Rs 84289.41		
15	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers								
	Lintel	1	30.800	0.500			15.400		
	bottom of long beams	3	9.400	0.300			8.460		
	sides of long beams	3	9.400		0.40*2		22.561		
	bottom of short beam	8	2.750	0.300			6.600		
	sides of short beam	8	2.750		0.40*2		17.600		
	beam over shutter	1	3.200	0.800			2.561		

18	13.8.2 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix:1: 4 (1 cement : 4 fine sand)								
	wall inside	1	30.000	4.500			135.000		
	wall outside	1	31.600	4.500			142.201		
	ramp top	1	5.000	3.000			15.000		
	ramp side	2	5.000		0.150		1.500		
	parapet 2 sides and top	1	32.400		1.300		42.120		
	for windows	5	1.000	1.500			-7.500		
	for shutter	1	3.000	3.000			-9.000		
	Total Quantity						335.821 sqm		
	Total Deducted Quantity						-16.500 sqm		
	Net Total Quantity						319.321 sqm		
	Say 319.321 sqm @ Rs 453.75 / sqm						Rs 144891.90		
19	13.37.1 White washing with lime to give an even shade:New work (three or more coats)								
	roof top(inside of parapet)	1	9.200	6.200			57.040		
	sunshade top	1	34.400	0.700			24.080		
	Total Quantity						81.120 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						81.120 sqm		
	Say 81.120 sqm @ Rs 35.10 / sqm						Rs 2847.31		
20	13.44.1 Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)								
	Quantity same as item code 13.7.1	1	207.662				207.662		
	Quantity same as item code 13.8.2	1	319.321				319.321		
	roof top	1	9.200	6.200			-57.040		
	sunshade top	1	34.400	0.700			-24.080		
	ramp top	1	5.000	3.000			-15.000		
	Total Quantity						526.983 sqm		

		Total Deducted Quantity				-96.120 sqm	
		Net Total Quantity				430.863 sqm	
		Say 430.863 sqm @ Rs 112.09 / sqm				Rs 48295.43	
21	13.50.3 Applying priming coat:With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works						
	two sides of rolling shutter	2	3.000	3.000		18.000	
		Total Quantity				18.000 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				18.000 sqm	
		Say 18.000 sqm @ Rs 62.27 / sqm				Rs 1120.86	
22	13.48.3 Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture						
	rolling shutter two sides	2	3.000	3.000		18.000	
		Total Quantity				18.000 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				18.000 sqm	
		Say 18.000 sqm @ Rs 154.62 / sqm				Rs 2783.16	
23	13.71 Lettering with black Japan pint of approved brand and manufacture						
		100			15.0	1500.000	
		Total Quantity				1500.000 Letterxcm ht	
		Total Deducted Quantity				0.000 Letterxcm ht	
		Net Total Quantity				1500.000 Letterxcm ht	
		Say 1500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht				Rs 8700.00	
24	11.21.1.1 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and /or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)Acid and alkali resistant tile						
		1	9.000	6.000		54.000	

4Civil work (b)Construction of Electrical Control room at water treatment plant site Alady and approach road work.(2).Construction of concrete road and retaining wall. (Cost Index:41.53 %)							
1	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						
	For retaining wall	1	20.000	1.500			30.000
	Total Quantity						30.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						30.000 sqm
	Say 30.000 sqm @ Rs 15.43 / sqm						Rs 462.90
2	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						
	For retaining wall	1	20.000	1.200	1.500		36.000
	Total Quantity						36.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						36.000 cum
	Say 36.000 cum @ Rs 309.95 / cum						Rs 11158.20
3	4.1.5 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)						
	For retaining wall	1	20.000	1.200	0.200		4.801
	Total Quantity						4.801 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						4.801 cum
	Say 4.801 cum @ Rs 7690.32 / cum						Rs 36921.23
4	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)						
	For retaining wall	1	20.000	1.200	1.000		24.000
		1	20.000	0.800	0.800		12.800
	Total Quantity						36.800 cum

		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					36.800 cum	
		Say 36.800 cum @ Rs 7520.41 / cum					Rs 276751.09	
5	<p>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)</p>							
	For retaining wall 1st belt	1	20.000	1.000	0.150		3.000	
	For retaining wall 2nd belt	1	20.000	0.600	0.100		1.201	
		Total Quantity					4.201 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					4.201 cum	
		Say 4.201 cum @ Rs 11433.93 / cum					Rs 48033.94	
6	<p>2.2.1 Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m:All kinds of soil</p>							
	Excavation for concrete road	1	1000.000	2.500	0.200		500.000	
		Total Quantity					500.000 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					500.000 cum	
		Say 500.000 cum @ Rs 917.54 / cum					Rs 458770.00	
7	<p>od165801/2020_2021 Dry rubble masonry with hard stone in foundation and plinth including leveling 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:</p>							
	For road basement	1	1000.000	2.500	0.200		500.000	
		Total Quantity					500.000 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					500.000 cum	
		Say 500.000 cum @ Rs 4957.19 / cum					Rs 2478595.00	

8	5.1.3 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)							
	For concreting road to Plant	1	1000.000	2.500	0.100		250.000	
	Total Quantity						250.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						250.000 cum	
	Say 250.000 cum @ Rs 8964.72 / cum						Rs 2241180.00	
9	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete							
	two sides of road	2	1000.000	0.100		1.1	220.001	
	Total Quantity						220.001 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						220.001 sqm	
	Say 220.001 sqm @ Rs 350.00 / sqm						Rs 77000.35	
10	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more							
	For concrete road	1	1000.000	2.500	0.100	60.0	15000.000	Reinforcement @ 60Kg/m3 of concrete considered
	For retaining wall	1	20.000	1.000	0.150	100.0	300.000	Reinforcement @ 100Kg/m3 of concrete considered

	For retaining wall	1	20.000	0.600	0.100	100.0	120.001	Reinforcement @ 100Kg/m3 of concrete considered
							Total Quantity	15420.001 kilogram
							Total Deducted Quantity	0.000 kilogram
							Net Total Quantity	15420.001 kilogram
							Say 15420.001 kilogram @ Rs 102.61 / kilogram	Rs 1582246.30
SI No	Description	No	L	B	D	CF	Quantity	Remark
52- Electromechanical works (Cost Index:41.53 %)								
No Specifications added under this Estimate								
SI No	Description	No	L	B	D	CF	Quantity	Remark
62(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (1)- 11 KV substation and HT equipments (Cost Index:41.53 %)								
1	od194695/2018_2019 Erection of RCC/ PCC pole of following length in brick ballast and ramming the foundation, finishing with 150 mm thick cement concrete (1:3:6) layer on top with including excavation and refilling etc. as required.						2.000	
							Total Quantity	2.000 Nos
							Total Deducted Quantity	0.000 Nos
							Net Total Quantity	2.000 Nos
							Say 2.000 Nos @ Rs 4957.00 / Nos	Rs 9914.00
2	od194696/2018_2019 Supplying and erection of a set of cross bracing frame work for 11 KV over head line double pole structure having four members fabricated out of 50 mm X 50 mm X 6 mm angle iron to form a rectangle of minimum size 1400 mm width X 2500 mm height, complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. (as per drawing) and painting with primer and finish paint as required.						1.000	
							Total Quantity	1.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	1.000 set
							Say 1.000 set @ Rs 6552.00 / set	Rs 6552.00
3	od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over head lines as required.							

		3					3.000	
	Total Quantity						3.000 Nos	
	Total Deducted Quantity						0.000 Nos	
	Net Total Quantity						3.000 Nos	
	Say 3.000 Nos @ Rs 967.00 / Nos						Rs 2901.00	
4	od194698/2018_2019 Supplying and erection of 11 kV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.							
		1					1.000	
	Total Quantity						1.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						1.000 set	
	Say 1.000 set @ Rs 349.00 / set						Rs 349.00	
5	od194699/2018_2019 Supplying and erection of three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 kV overhead lines with rated voltage 9 kV (rms) with a nominal discharge current rating of 5 kA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.							
		1					1.000	
	Total Quantity						1.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						1.000 set	
	Say 1.000 set @ Rs 3601.00 / set						Rs 3601.00	
6	od194700/2018_2019 OUTDOOR HT BREAKER PANEL (LBS) Supply, Installation, Testing & Commissioning of 11kV Outdoor HT Breaker Panel with the following components. 11kV Load Break Switch 11kV, 350 MVA, 630A, LBS unit - 1 set Voltmeter (0 - 11kV) - 3 Nos LED Pilot Indication - LBS ON / OFF - 1 Set Trip Push buttons - 1 set 2NO+2NC Aux contacts - 1 Set 230V AC Shunt Trip Coil - 1 No Aluminium Busbar - 1 Set Seal off Bushings - 3 Nos Space Heater Element with Thermostat & wiring - 1 Nos Inspection Lamp LED with switch & wiring - 1 set Metering Chamber PT - 100 VA, 11kV/110V, CL 0.2S - 1 No CT - */5A, 15VA, CL 0.2S - 3 Nos Provisions for mounting 3 phase, 4wire, HT CT/PT operated, bi- directional TOD meter with accuracy class 0.2S including wiring and test terminal block, site glass etc. - 1 set Voltage Circuit: The active & apparent power consumption of voltage circuit including power supply of meter at reference voltage, reference temperature & frequency shall not exceed 1.0 Watt & 4.0 VA per phase Current Circuit: The apparent power taken by current circuit at basic current, reference frequency & reference temperature shall not exceed 1.0 VA/phase.(The Quoted rate shall be inclusive of necessary control wiring,components working on LT supply should be prewired completely with necessary controls as specified till the connection point for feeding LT Supply from outside, Cable end box for receiving incoming and outgoing cables and suitable civil foundation etc as required.) Supply & Labour							
		1					1.000	

10	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)	1	2.000				2.000	
		Total Quantity					2.000 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					2.000 cum	
		Say 2.000 cum @ Rs 7520.41 / cum					Rs 15040.82	
11	od194705/2018_2019 400 KVA Transformer- Supply, installation, testing and commissioning of one number 400 kVA, DYn11, 3Ph, 50Hz, 11/0.433 kV,ONAN cooled, copper wound outdoor distribution transformer with tappings from +5% to -10% in steps of 2.5% with OFTC. The HT side & LT side shall have cable end box for XLPE cable. The transformer shall have suitable enclosure for The HT side & LT side. The transformer shall be complete with all standard accessories and fittings & conform to IS:2026. The rate shall be inclusive of all materials, lead,lift, first fill of oil, necessary civil works for mounting to the existing transformer foundation complete as per single line schematic diagram & particular specifications.	1					1.000	
		Total Quantity					1.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					1.000 set	
		Say 1.000 set @ Rs 631587.00 / set					Rs 631587.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
72(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(2)- LT / MV PANELS & ACCESSORIES (Cost Index:41.53 %)								

1	<p>od201682/2018_2019</p> <p>PCC PANEL - Supply, fabrication, erection, testing and commissioning of cubicle type fully compartmentalised, dust tight, vermin proof, water proof 800A LT- Main MV Panel falling to IP54 category fabricated out of 16 SWG CRCA Sheet Steel painted as per standards with Alumimium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry with water proof shrouding, free standing panel consisting of the following as per standards (All switches shall confirm to conforming to IEC 60947-2 standards). Incommer 800A FP Microprocessor based MDO ACB (35kA) - 1 Nos. Restricted Earth Fault Relay - 1 Set 800A TPN best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches - 4 Set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set 800/5A CL 1.0, 15VA Metering CTs - 1 Set Outgoings: 630A, 35kA 4P MCCB - 2 Nos. 200A FP SDFU (100kA) - 2 Nos. 63A FP SDFU (100kA) - 1 Nos. Surge Protection Pluggable type surge arrester with potential free contact, thermal disconnecter & provision for inbuilt common remote indication for defective arresters to connect between Line and Neutral and one number Spark Gap type arrester to connect between Neutral and Earth of following ratings including base element & pluggable arresters. Nominal voltage 230V, 50Hz, Nominal Discharge current 30 kA (8/20 sec) for Line to Neutral & 50 kA (8/20 sec) for Neutral to Earth, Maximum Discharge Current I_{max} 50 kA (8/20 sec) -1Set Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable cement concrete plinth. The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. The board shall be fabricated in such a way that future extension be possible. Supply & Labour</p>												
	<table border="1"> <tr> <td data-bbox="236 1200 515 1256">1</td> <td data-bbox="515 1200 1077 1256">Kerala Water Authority</td> <td data-bbox="1077 1200 1358 1256">1.000</td> <td data-bbox="1358 1200 1509 1256"></td> </tr> </table>	1	Kerala Water Authority	1.000									
1	Kerala Water Authority	1.000											
	<table border="1"> <tr> <td data-bbox="236 1256 1219 1312"></td> <td data-bbox="1219 1256 1509 1312">Total Quantity</td> <td data-bbox="1219 1256 1509 1312">1.000 set</td> </tr> <tr> <td data-bbox="236 1312 1219 1368"></td> <td data-bbox="1219 1312 1509 1368">Total Deducted Quantity</td> <td data-bbox="1219 1312 1509 1368">0.000 set</td> </tr> <tr> <td data-bbox="236 1368 1219 1424"></td> <td data-bbox="1219 1368 1509 1424">Net Total Quantity</td> <td data-bbox="1219 1368 1509 1424">1.000 set</td> </tr> <tr> <td data-bbox="236 1424 1219 1480"></td> <td data-bbox="1219 1424 1509 1480">Say 1.000 set @ Rs 294498.00 / set</td> <td data-bbox="1219 1424 1509 1480">Rs 294498.00</td> </tr> </table>		Total Quantity	1.000 set		Total Deducted Quantity	0.000 set		Net Total Quantity	1.000 set		Say 1.000 set @ Rs 294498.00 / set	Rs 294498.00
	Total Quantity	1.000 set											
	Total Deducted Quantity	0.000 set											
	Net Total Quantity	1.000 set											
	Say 1.000 set @ Rs 294498.00 / set	Rs 294498.00											
2	<p>od194956/2018_2019</p> <p>WTP - MCC PANEL- Supply, fabrication, erection, testing and commissioning of cubicle type fully compartmentalised, dust tight, vermin proof, water proof 200A MV Panel falling to IP54 category fabricated out of 16 SWG CRCA Sheet Steel painted as per standards with Alumimium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry with water proof shrouding, free standing panel consisting of the following as per standards (All switches shall confirm to conforming to IEC 60947-2 standards). Incoming : 200A TPN Isolator - 1 No. 200A TPN best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches - 1 Set 200/5A CL 1.0, 15VA Metering CTs - 1 Set Outgoings: 100A TPN SDFU (100kA) - 3 Nos. 32A TP D curve MCB (10kA) - 6 Nos. 25A TP D curve MCB (10kA) - 3 Nos. 10A TP D curve MCB (10kA) - 4 Nos. Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable</p>												

	cement concrete plinth. The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. The board shall be fabricated in such a way that future extension be possible. Supply & Labour								
		1						1.000	
	Total Quantity							1.000 set	
	Total Deducted Quantity							0.000 set	
	Net Total Quantity							1.000 set	
	Say 1.000 set @ Rs 84484.00 / set							Rs 84484.00	
3	<p>od194957/2018_2019</p> <p>APFC PANEL -Automatic Power Factor Correction Panel of total 40 KVAR capacity with Auto / Manual mode operation to be fabricated out of 14 guage CRCA sheet steel Powder coated with provision for capacitor mounted inside the panel with adequate number of louvers and powder coated with approved shade and having following specific components(refer particular specification) with Alumimium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry , free standing panel consisting of the following as per standards. Incomer 100A TPN Isolator - 1 No. 100 A TPN best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches- 1 Set 100/5A 15VA CL 1.0 Metering CTs - 3 Sets Microprocessor based intelligent, 8 step IPFC relay with PF display - 1 No. Out goings 40A, 10kA C Curve TP MCB - 1 Nos 20A, 10kA C Curve TP MCB - 1 Nos 16A, 10kA C Curve TP MCB - 2 Nos 10A, 10kA C Curve TP MCB - 1 Nos 6A, 10kA C Curve TP MCB - 3 Nos Capacitor duty contactors working on 3 Phase 415V AC supply of the following ratings wired with Pilot LED indication for ON & OFF, Push Buttons for Manual ON & OFF operation using suitable NO / NC contacts for all the stages 15 kVAR - 1 Nos 10 kVAR- 3 Nos 7.5 kVAR- 4 Nos 480 V,50-Hz Double di-electric polypropylene (MPP heavy duty) Capacitors of the following ratings including fixed compensation for low load losses. 15 kVAR - 1 Nos 10 kVAR- 1 Nos 5 kVAR- 2 Nos 2 kVAR - 2 Nos 1 kVAR - 1 Nos The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. Supply & Labour Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable cement concrete plinth.The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. Supply & Labour</p>								
		1						1.000	
	Total Quantity							1.000 set	
	Total Deducted Quantity							0.000 set	
	Net Total Quantity							1.000 set	
	Say 1.000 set @ Rs 119898.00 / set							Rs 119898.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark	

82(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (3)- DISTRIBUTION BOARDS, SWITCHGEAR & ACCESSORIES (Cost Index:41.53 %)							
1	od194998/2018_2019	Supply, installation, testing & commissioning of best quality sheet steel, phosphatised and painted, dust and vermin proof enclosure (IP43) Vertical TPN Double door DB including copper bus bar, neutral link, earth bus and DIN rail suitable for fixing RCCB + Isolator (8 module)as incommmer and SP/TP MCB as outgoing etc. on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing, dressing the DB including termination etc. as required. (Including closing vaccant slots using Dummy) - 12 Way					
		1					1.000
	Total Quantity						1.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						1.000 No
	Say 1.000 No @ Rs 11136.00 / No						Rs 11136.00
2	od194999/2018_2019	Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves, insulation etc. complete. 63A, 100mA 3Ph RCCB					
		1					1.000
	Total Quantity						1.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						1.000 No
	Say 1.000 No @ Rs 6640.00 / No						Rs 6640.00
3	od195000/2018_2019	Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves, insulation etc. complete. 63A, 4P MCB Isolator					
		1					1.000
	Total Quantity						1.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						1.000 No
	Say 1.000 No @ Rs 1050.00 / No						Rs 1050.00
4	od195001/2018_2019	Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves, insulation etc. complete. 6A to 32A , 10kA SP MCB					
		36					36.000
	Total Quantity						36.000 No

	Total Deducted Quantity						0.000 No	
	Net Total Quantity						36.000 No	
	Say 36.000 No @ Rs 181.00 / No						Rs 6516.00	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
92(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (4)- CABLES , WIRES & ACCESSORIES (Cost Index:41.53 %)								
1	od195885/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3 kA for 1 sec.), cores laid up, inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable of the following sizes in the existing cable trench conforming to IS: 7098 part II 1985 with latest amendments. 3C x 300 Sqm							
		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Say 25.000 metre @ Rs 2281.00 / metre						Rs 57025.00	
2	od195886/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3 kA for 1 sec.), cores laid up, inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable of the following sizes in the existing cable trench conforming to IS: 7098 part II 1985 with latest amendments.3C x 150 Sqm							
		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Say 25.000 metre @ Rs 2318.00 / metre						Rs 57950.00	
3	od195980/2018_2019 HT Cable Terminations Supplying and making indoor cable end termination with heat shrinkable jointing kit, including lugs and other jointing materials, for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 3C x 150 Sqmm							
		1					1.000	
	Total Quantity						1.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						1.000 set	

	Say 1.000 set @ Rs 7664.00 / set							Rs 7664.00
4	od195981/2018_2019 HT Cable Terminations Supplying and making indoor cable end termination with heat shrinkable jointing kit, including lugs and other jointing materials, for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 3C x 300 Sqmm							
		1					1.000	
	Total Quantity							1.000 set
	Total Deducted Quantity							0.000 set
	Net Total Quantity							1.000 set
	Say 1.000 set @ Rs 10002.00 / set							Rs 10002.00
5	od195993/2018_2019 HT Cable Termination- Supplying and making Outdoor cable end jointing with heat shrinkable jointing kit, including lugs and other jointing materials, for for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 3C x 150 Sqmm							
		1					1.000	
	Total Quantity							1.000 set
	Total Deducted Quantity							0.000 set
	Net Total Quantity							1.000 set
	Say 1.000 set @ Rs 12802.00 / set							Rs 12802.00
6	od196006/2018_2019 HT Cable Terminations - Supplying and making Outdoor cable end jointing with heat shrinkable jointing kit, including lugs and other jointing materials, for for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 3C x 300 Sqmm							
		1					1.000	
	Total Quantity							1.000 set
	Total Deducted Quantity							0.000 set
	Net Total Quantity							1.000 set
	Say 1.000 set @ Rs 14660.00 / set							Rs 14660.00
7	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade of following sizes through trench/wall/ ceiling. 3.5C x 185 Sqmm							
		1	120.000				120.000	
	Total Quantity							120.000 metre
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							120.000 metre
	Say 120.000 metre @ Rs 1752.00 / metre							Rs 210240.00

8	od195890/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade of following sizes through trench/wall/ ceiling. 3.5C x 150 Sqmm						
	1	60.000				60.000	
	Total Quantity						60.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						60.000 metre
	Say 60.000 metre @ Rs 1241.00 / metre						Rs 74460.00
9	od195891/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade of following sizes through trench/wall/ ceiling. 3.5C x 50 Sqmm						
	1	30.000				30.000	
	Total Quantity						30.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						30.000 metre
	Say 30.000 metre @ Rs 539.00 / metre						Rs 16170.00
10	od195892/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade of following sizes through trench/wall/ ceiling. 3.5C x 35 Sqmm						
	1	30.000				30.000	
	Total Quantity						30.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						30.000 metre
	Say 30.000 metre @ Rs 421.00 / metre						Rs 12630.00
11	od195893/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade of following sizes through trench/wall/ ceiling- 3.5C x 25 Sqmm						
	1	30.000				30.000	
	Total Quantity						30.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						30.000 metre
	Say 30.000 metre @ Rs 350.00 / metre						Rs 10500.00
12	od195894/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade of following sizes through trench/wall/ ceiling - 4C x 6 Sqmm						
	1	75.000				75.000	

							Total Deducted Quantity	0.000 No
							Net Total Quantity	10.000 No
							Say 10.000 No @ Rs 266.00 / No	Rs 2660.00
21	od195903/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end termination of UG cables of the following sizes using Siemens type Brass compression gland & Copper lugs etc. complete - 4C x 4 sqmm (22mm)							
		14						14.000
							Total Quantity	14.000 No
							Total Deducted Quantity	0.000 No
							Net Total Quantity	14.000 No
							Say 14.000 No @ Rs 225.00 / No	Rs 3150.00
22	od195904/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end termination of UG cables of the following sizes using Siemens type Brass compression gland & Copper lugs etc. complete - 4C x 2.5 Sqmm							
		2						2.000
							Total Quantity	2.000 No
							Total Deducted Quantity	0.000 No
							Net Total Quantity	2.000 No
							Say 2.000 No @ Rs 211.00 / No	Rs 422.00
23	od195905/2018_2019 LT Power Cables - Supply & drawing the following size of FR Multi-core PVC Insulated and PVC sheathed Copper conductor round flexible wire manufactured with bright annealed bare copper conductor as per IS 8130/1984 Insulated and sheathed with electrical grade PVC compound as per IS 5831/1984 generally conforming to IS 694/1990 for working voltage up to and including 1100 V through existing PVC conduit / casing capping wall. 3C x 0.5 Sqmm							
		1	25.000					25.000
							Total Quantity	25.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	25.000 metre
							Say 25.000 metre @ Rs 47.00 / metre	Rs 1175.00
24	od195906/2018_2019 LT Power Cables - Supply & drawing the following size of FR Multi-core PVC Insulated and PVC sheathed Copper conductor round flexible wire manufactured with bright annealed bare copper conductor as per IS 8130/1984 Insulated and sheathed with electrical grade PVC compound as per IS 5831/1984 generally conforming to IS 694/1990 for working voltage up to and including 1100 V through existing PVC conduit / casing capping wall. 3C x 1.5 Sqmm							

		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Say 25.000 metre @ Rs 88.00 / metre						Rs 2200.00	
25	od195907/2018_2019 PVC Conduits - Supply and providing the following size of ISI Marked rigid PVC conduits with specials confirming to IS 9537/1983 on surface / concealed position making good the damages made etc.complete.20mm dia, 1.5mm thick							
		1	350.000				350.000	
	Total Quantity						350.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						350.000 metre	
	Say 350.000 metre @ Rs 88.00 / metre						Rs 30800.00	
26	od195908/2018_2019 PVC Conduits - Supply and providing the following size of ISI Marked rigid PVC conduits with specials confirming to IS 9537/1983 on surface concealed position making good the damages made etc.complete.25mm dia, 1.5mm thick							
		1	250.000				250.000	
	Total Quantity						250.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						250.000 metre	
	Say 250.000 metre @ Rs 107.00 / metre						Rs 26750.00	
27	od195909/2018_2019 PVC Conduits - Supply and providing the following size of ISI Marked rigid PVC conduits with specials confirming to IS 9537/1983 on surface concealed position making good the damages made etc.complete. 32mm dia 1.5mm thick							
		1	100.000				100.000	
	Total Quantity						100.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						100.000 metre	
	Say 100.000 metre @ Rs 138.00 / metre						Rs 13800.00	
28	od195910/2018_2019 PVC Conduits- Supply & providing Capping / Casing of good quality of the following sizes. 20 mm							
		1	100.000				100.000	
	Total Quantity						100.000 metre	

	Say 100.000 metre @ Rs 199.00 / metre							Rs 19900.00
33	od195915/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with bright annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PVC compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and including 1100 V.through the existing PVC conduits / capping casing. 3 run x 2.5 Sqmm - SPN + E - rate as per vetted estimate.							
		1	200.000				200.000	
	Total Quantity							200.000 metre
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							200.000 metre
	Say 200.000 metre @ Rs 154.00 / metre							Rs 30800.00
34	od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with bright annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PVC compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and including 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E							
		1	350.000				350.000	
	Total Quantity							350.000 metre
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							350.000 metre
	Say 350.000 metre @ Rs 118.00 / metre							Rs 41300.00
35	od195917/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of MS angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross members and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall be painted with two coats of Zinc Chromate primer and two coats of enamel paint.							
		500					500.000	
	Total Quantity							500.000 kg
	Total Deducted Quantity							0.000 kg
	Net Total Quantity							500.000 kg
	Say 500.000 kg @ Rs 142.00 / kg							Rs 71000.00
36	od195918/2018_2019 Cable Supports & Trenching- Supply and providing 6mm MS chequered plate of suitable thickness including cutting, welding, painting etc. as required for the cable trench covering.							
		100					100.000	
	Total Quantity							100.000 kg

							Total Deducted Quantity	0.000 kg
							Net Total Quantity	100.000 kg
							Say 100.000 kg @ Rs 121.00 / kg	Rs 12100.00
37	od195919/2018_2019 Cable Supports & Trenching - Charges for making cable trenches in all type of soil including providing country burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring normal surface etc.complete as per standards of the following size. 35 cm Wide x 100 cm Deep (HT Cables)							
		1	100.000					100.000
							Total Quantity	100.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	100.000 metre
							Say 100.000 metre @ Rs 640.00 / metre	Rs 64000.00
38	od195920/2018_2019 Cable Supports & Trenching - Charges for making cable trenches in all type of soil including providing country burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring normal surface etc.complete as per standards of the following size. 35 cm Wide x 75 cm Deep (LT Cables)							
		1	100.000					100.000
							Total Quantity	100.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	100.000 metre
							Say 100.000 metre @ Rs 594.00 / metre	Rs 59400.00
39	od195921/2018_2019 Cable Supports & Trenching - Supply route marker with 10cmx10cm GI plate 5mm thick with inscriptions there on bolted / welded to 35x35x6mm angle iron 60cm long and fixing the same in ground as required.							
		50						50.000
							Total Quantity	50.000 No
							Total Deducted Quantity	0.000 No
							Net Total Quantity	50.000 No
							Say 50.000 No @ Rs 516.00 / No	Rs 25800.00
40	od195922/2018_2019 Cable Supports & Trenching - Supply route marker with 10cmx10cm GI plate 5mm thick with inscriptions there on bolted / welded to 35x35x6mm angle iron 60cm long and fixing the same in ground as required.							
		25						25.000
							Total Quantity	25.000 No

							Total Deducted Quantity	0.000 No
							Net Total Quantity	25.000 No
							Say 25.000 No @ Rs 417.00 / No	Rs 10425.00
SI No	Description	No	L	B	D	CF	Quantity	Remark
102(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (5)- EARTHING & ACCESSORIES (Cost Index:41.53 %)								
1	od196108/2018_2019 Supply and providing plate earthing as per IS 3043 with 1200x1200x12 mm GI/CI earth plate, 50 mm GI watering pipe fixed to the earth plate with 25 x 3mm GI clamps, GI funnel with weld mesh, filling required quantity of charcoal including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 450 x 450 x 450 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top.	8					8.000	
							Total Quantity	8.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	8.000 set
							Say 8.000 set @ Rs 11091.00 / set	Rs 88728.00
2	od196109/2018_2019 Supply and providing pipe earthing as per IS 3043 with 2.5 m long 40 mm dia B class GI pipe, GI funnel with weld mesh, filling required quantity of charcoal & salt including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top.	5					5.000	
							Total Quantity	5.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	5.000 set
							Say 5.000 set @ Rs 2952.00 / set	Rs 14760.00
3	od196110/2018_2019 Supply & laying the following sizes of Earth Strip for earthing interconnection, termination and leads, for continuous earthing along with cables tinned at terminals etc. complete. 25 x 6 mm Copper Strip	1	300.000				300.000	
							Total Quantity	300.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	300.000 metre

	Say 300.000 metre @ Rs 1507.00 / metre						Rs 452100.00	
4	od196111/2018_2019 Supply & laying the following sizes of Earth Strip for earthing interconnection, termination and leads, for continuous earthing along with cables tinned at terminals etc. complete. 25 x 3 mm Copper strip							
		1	500.000				500.000	
	Total Quantity						500.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						500.000 metre	
	Say 500.000 metre @ Rs 797.00 / metre						Rs 398500.00	
5	od196112/2018_2019 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving earth connection as required. No. 16 SWG Copper Conductor							
		1	300.000				300.000	
	Total Quantity						300.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						300.000 metre	
	Say 300.000 metre @ Rs 199.00 / metre						Rs 59700.00	
6	od196113/2018_2019 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving earth connection as required. No. 10 SWG Copper Conductor							
		1	600.000				600.000	
	Total Quantity						600.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						600.000 metre	
	Say 600.000 metre @ Rs 113.00 / metre						Rs 67800.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
112(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(6) SUBSTATION EQUIPMENTS & MISC (Cost Index:41.53 %)								
1	od196123/2018_2019 Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 KV dielectric strength conforming to IS 5429/ 1969.							
		1	5.000				5.000	
	Total Quantity						5.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						5.000 sqm	
	Say 5.000 sqm @ Rs 773.00 / sqm						Rs 3865.00	

2	od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 KV dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel.						
		1	2.000				2.000
	Total Quantity						2.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						2.000 sqm
	Say 2.000 sqm @ Rs 1379.00 / sqm						Rs 2758.00
3	od196125/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixing it to wall as required.						
		2					2.000
	Total Quantity						2.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						2.000 set
	Say 2.000 set @ Rs 2383.00 / set						Rs 4766.00
4	od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxide and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine sand, painting the bracket/ floor stand including making good the damages, colour washing etc. as required.						
		4					4.000
	Total Quantity						4.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						4.000 set
	Say 4.000 set @ Rs 638.00 / set						Rs 2552.00
5	od196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.						
		1					1.000
	Total Quantity						1.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						1.000 set
	Say 1.000 set @ Rs 247.00 / set						Rs 247.00
6	od196128/2018_2019 Supply and providing Laminated Electrical Schematic diagram framed and placed in a conspicuous location for clear vision.						

		1					1.000	
	Total Quantity						1.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						1.000 set	
	Say 1.000 set @ Rs 226.00 / set						Rs 226.00	
7	od196129/2018_2019 Supply & providing Aluminium anodised Danger Notice Board of size 200 x 150 mm. with inscriptions (both in English and Malayalam) and conventional Skull and Bone in Red colour at locations as directed by the Engineer in Charge							
		10					10.000	
	Total Quantity						10.000 Nos	
	Total Deducted Quantity						0.000 Nos	
	Net Total Quantity						10.000 Nos	
	Say 10.000 Nos @ Rs 267.00 / Nos						Rs 2670.00	
8	od202018/2018_2019 SCHEME APPROVAL & POWER ALLOCATION - Preparation and submission of latest scheme drawings, Voltage drop calculations, Earthing design & fault level calculations to the Electrical Inspectorate including all MV additions recently made and obtaining approval, arranging inspection for entire installation, obtaining sanction orders for the electrical installation, complete (Including all incidental and statutory expenses).							
		1					1.000	
	Total Quantity						1.000 L.S	
	Total Deducted Quantity						0.000 L.S	
	Net Total Quantity						1.000 L.S	
	Say 1.000 L.S @ Rs 20000.00 / L.S						Rs 20000.00	
9	od202020/2018_2019 SCHEME APPROVAL & POWER ALLOCATION - Preparation and submission of latest scheme drawings to KSEB for obtaining sanction for power allocation (Including all incidental and statutory expenses) .Preparation, submission and execution of HT agreement(6 sets) as per the renewed Contract demand according to the latest additions.							
		1					1.000	
	Total Quantity						1.000 L.S	
	Total Deducted Quantity						0.000 L.S	
	Net Total Quantity						1.000 L.S	
	Say 1.000 L.S @ Rs 15000.00 / L.S						Rs 15000.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark

122(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound- (1)- 11 KV substation and HT equipments (Cost Index:41.53 %)								
1	od194695/2018_2019 Erection of RCC/ PCC pole of following length in brick ballast and ramming the foundation, finishing with 150 mm thick cement concrete (1:3:6) layer on top with including excavation and refilling etc. as required.							
		2					2.000	
	Total Quantity						2.000 Nos	
	Total Deducted Quantity						0.000 Nos	
	Net Total Quantity						2.000 Nos	
	Say 2.000 Nos @ Rs 4957.00 / Nos						Rs 9914.00	
2	od194696/2018_2019 Supplying and erection of a set of cross bracing frame work for 11 KV over head line double pole structure having four members fabricated out of 50 mm X 50 mm X 6 mm angle iron to form a rectangle of minimum size 1400 mm width X 2500 mm height, complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc. (as per drawing) and painting with primer and finish paint as required.							
		1					1.000	
	Total Quantity						1.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						1.000 set	
	Say 1.000 set @ Rs 6552.00 / set						Rs 6552.00	
3	od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over head lines as required.							
		3					3.000	
	Total Quantity						3.000 Nos	
	Total Deducted Quantity						0.000 Nos	
	Net Total Quantity						3.000 Nos	
	Say 3.000 Nos @ Rs 967.00 / Nos						Rs 2901.00	
4	od194698/2018_2019 Supplying and erection of 11 kV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.							
		1					1.000	
	Total Quantity						1.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						1.000 set	
	Say 1.000 set @ Rs 349.00 / set						Rs 349.00	

5	od194699/2018_2019 Supplying and erection of three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 kV overhead lines with rated voltage 9 kV (rms) with a nominal discharge current rating of 5 kA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.	1					1.000	
							Total Quantity	1.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	1.000 set
							Say 1.000 set @ Rs 3601.00 / set	Rs 3601.00
6	od201137/2018_2019 OUTDOOR HT BREAKER PANEL (LBS) - Supply, Installation, Testing & Commissioning of 11kV Outdoor HT Breaker Panel with the following components. 11kV Load Break Swich 11kV, 350 MVA, 630A, LBS unit - 1 set Voltmeter (0 - 11kV) - 3 Nos LED Pilot Indication - LBS ON / OFF - 1 Set Trip Push buttons - 1 set 2NO+2NC Aux contacts - 1 Set 230V AC Shunt Trip Coil - 1 No Aluminium Busbar - 1 Set Seal off Bushings - 3 Nos Space Heater Element with Thermostat & wiring - 1 Nos Inspection Lamp LED with switch & wiring - 1 set Metering Chamber PT - 100 VA, 11kV/110V, CL 0.2S - 1 No CT - */5A, 15VA, CL 0.2S - 3 Nos Provisions for mounting 3 phase, 4wire, HT CT/PT operated, bi-directional TOD meter with accuracy class 0.2S including wiring and test terminal block, site glass etc. - 1 set Voltage Circuit: The active & apparent power consumption of voltage circuit including power supply of meter at reference voltage, reference temperature & frequency shall not exceed 1.0 Watt & 4.0 VA per phase Current Circuit: The apparent power taken by current circuit at basic current, reference frequency & reference temperature shall not exceed 1.0 VA/phase. (The Quoted rate shall be inclusive of necessary control wiring, components working on LT supply should be prewired completely with necessary controls as specified till the connection point for feeding LT Supply from outside, Cable end box for receiving incoming and outgoing cables and suitable civil foundation etc as required.) - Supply & Labour	1					1.000	
							Total Quantity	1.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	1.000 set
							Say 1.000 set @ Rs 215359.00 / set	Rs 215359.00
7	od201138/2018_2019 HT Bidirectional TOD Meter - Supply & Providing 3 phase, 4wire, HT CT/PT operated, bi-directional with accuracy class 0.2S for both Active and Reactive energy, -/5A, HT static tri vector meter with TOD register, DLMS compliant & AMR compatible with optical port and RS232 port having ISI Marking, suitable for measurement of active kWh, reactive energy kVARh and apparent energy kVAh and kVA MD, kW MD at nominal frequency in the range of 47.5 Hz to 52.5 Hz in balanced as well as unbalanced load conditions in the existing outdoor Meter cubicle including testing & commissioning etc. complete.	1					1.000	
							Total Quantity	1.000 set
							Total Deducted Quantity	0.000 set

		Net Total Quantity					1.000 set	
		Say 1.000 set @ Rs 43954.00 / set					Rs 43954.00	
8	od201139/2018_2019 HT Equipment Pinth, Substation Yard Fencing & Levelling - Providing, fabricating and fixing 2m high chainlink fencing over 4mm thick barbed wire with a framework of 50x50x6mm MS angle between vertical posts of ISMC 75 at 2400mm interval, Earthing as per KSEI/KSEB standards shall be done around the periphery of the fencing. The MS framework for chainlink fencing shall be Hot Dip Galvanised. The rate shall be inclusive of all materials, labour, lead, lift etc including escalation works and fabrication and assembly works including all nuts, bolts and other miscellaneous items etc complete as per drawing and as directed by the Engineer in Charge.							
		1	20.000				20.000	
		Total Quantity					20.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					20.000 metre	
		Say 20.000 metre @ Rs 1298.00 / metre					Rs 25960.00	
9	od201140/2018_2019 HT Equipment Pinth, Substation Yard Fencing & Levelling - Supplying and filling the substation yard with 40mm size blue jelly of 150mm thick including cost and conveyance of all materials, labour charges etc complete							
		1	5.000				5.000	
		Kerala Water Authority Total Quantity					5.000 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					5.000 cum	
		Say 5.000 cum @ Rs 3017.00 / cum					Rs 15085.00	
10	od201141/2018_2019 HT Equipment Pinth, Substation Yard Fencing & Levelling - Supply & erection of 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) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand).							
		1	2.000				2.000	
		Total Quantity					2.000 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					2.000 cum	
		Say 2.000 cum @ Rs 6143.00 / cum					Rs 12286.00	
11	od201142/2018_2019 500 KVA Transformer - Supply, installation, testing and commissioning of one number 500 kVA, DYn11, 3Ph, 50Hz, 11/3.3 kV, ONAN cooled, copper wound outdoor distribution transformer with tappings from +5% to -10% in steps of 2.5% with OFTC. The HT side & LT side shall have cable end box for XLPE							

	cable. The transformer shall have suitable enclosure for The HT side & LT side. The transformer shall be complete with all standard accessories and fittings & conform to IS:2026. The rate shall be inclusive of all materials, lead, lift, first fill of oil, necessary civil works for mounting to the existing transformer foundation complete as per single line schematic diagram & particular specifications.						
		1					1.000
	Total Quantity						1.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						1.000 set
	Say 1.000 set @ Rs 918604.00 / set						Rs 918604.00
12	od210621/2020_2021 Supply/erection/testing commissioning of one number 50/ 63 KVA(or suitable near size) 3.3KV/433V ,distribution transformer Indoor (or out door),with HT/LT cable entry ,with suitable HT and LT cables from 3.3 KV pannel to transformer and LT cable to LT panel,cable termination,foundation/structure/enclosure for transformer including ,erection ,testing and commissioning of LT pannel with 100A incomer MCCB, 3 NOS 63 A outgoing MCCB with isolation,erathing , with meters and indicating lamps etc complete including approval from Inspectrate.-complete-as per CEA and Inspectrate statutes						
		1					1.000
	Total Quantity						1.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						1.000 No
	Say 1.000 No @ Rs 350000.00 / No						Rs 350000.00
13	od201143/2018_2019 Neutral Grounding Resistor - Supply & Providing 50A,3.3kV 40ohm 30sec NGR - Supply						
		1					1.000
	Total Quantity						1.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						1.000 No
	Say 1.000 No @ Rs 155766.00 / No						Rs 155766.00
14	od201144/2018_2019 Neutral Grounding Resistor - Supply & Providing 50A,3.3kV 40ohm 30sec NGR - Labour						
		1					1.000
	Total Quantity						1.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						1.000 No
	Say 1.000 No @ Rs 656.00 / No						Rs 656.00
15	od201145/2018_2019						

	NEUTRAL CT - Supply & Providing 5P10 Protection Class 20/5A, 15VA Neutral CT in a suitable enclosure including giving connections to Transformer Neutral etc.complete - Supply							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 4327.00 / No						Rs 4327.00	
16	od201146/2018_2019 NEUTRAL CT - Supply & Providing 5P10 Protection Class 20/5A, 15VA Neutral CT in a suitable enclosure including giving connections to Transformer Neutral etc.complete - Labour							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 625.00 / No						Rs 625.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
132(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound-(2)- LT / MV PANELS & ACCESSORIES (Cost Index:41.53 %)								

Kerala Water Authority
PRICE

1	od201161/2018_2019 PCC PANEL -Design ,approve, Supply, fabrication, erection, testing and commissioning of 3.3kv cubicle type fully compartmentalized, dust tight, vermin proof, water proof 3.3 kv , VCB panel set 200Amp or suitable rating - Main 3.3.KV Panel falling to IP54 category fabricated out of 16 SWG CRCA Sheet Steel painted as per standards with Aluminium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry with water proof shrouding, free standing panel consisting of the following as per standards (All switches shall confirm to conforming to IEC 60947-2 standards). Incommer - 200A FP Microprocessor based VCB - suitable MVA based on fault level-- 1 Nos. Restricted Earth Fault Relay - best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches - 4 Set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set 200/5A CL 1.0, 15VA Metering CTs -one VCB incomer 200 A or suitable size- 3 Sets Outgoings: 200A, VCB - 1 Nos. 100/50A VCB out going- .with isolation facility - Surge Protection Pluggable type surge arrester with potential free contact, thermal disconnecter & provision for inbuilt common remote indication for defective arresters to connect between Line and Neutral and one number Spark Gap type arrester to connect between Neutral and Earth of following ratings including base element & pluggable arresters. Nominal voltage 3.3KV, 50Hz, Nominal Discharge current 30 kA (8/20 sec) for Line to Neutral & 50 kA (8/20 sec) for Neutral to Earth, Maximum Discharge Current I _{max} 50 kA (8/20 sec) -1Set Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable cement concrete plinth. The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. The board shall be fabricated in such a way that future extension be possible. Supply & Labour ,suitable battery and charger for the pannel,-complete as per CEA and kerala State Electrical Inspectrate relevant statutes, approval from inspectrate ,2.5 sq mm copper cable shall be used for all control circuits-								
		1						1.000	
								Total Quantity	1.000 set
								Total Deducted Quantity	0.000 set
								Net Total Quantity	1.000 set
								Say 1.000 set @ Rs 1806133.00 / set	Rs 1806133.00
SI No	Description	No	L	B	D	CF	Quantity	Remark	
142(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound- (3)- DISTRIBUTION BOARDS, SWITCHGEAR & ACCESSORIES (Cost Index:41.53 %)									
1	od194998/2018_2019 Supply, installation, testing & commissioning of best quality sheet steel, phosphatised and painted, dust and vermin proof enclosure (IP43) Vertical TPN Double door DB including copper bus bar, neutral link, earth bus and DIN rail suitable for fixing RCCB + Isolator (8 module)as incommer and SP/TP MCB as outgoings etc. on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing, dressing the DB including termination etc. as required. (Including closing vaccant slots using Dummy) - 12 Way								

		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 11136.00 / No						Rs 11136.00	
2	od201177/2018_2019 Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves, insulation etc. complete - 63A, 100mA 3Ph RCCB							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 6640.00 / No						Rs 6640.00	
3	od195000/2018_2019 Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves, insulation etc. complete. 63A, 4P MCB Isolator							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 1050.00 / No						Rs 1050.00	
4	od201178/2018_2019 Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves, insulation etc. complete - 6A to 32A , 10kA SP MCB							
		36					36.000	
	Total Quantity						36.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						36.000 No	
	Say 36.000 No @ Rs 181.00 / No						Rs 6516.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
152(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound- (4)- CABLES , WIRES & ACCESSORIES (Cost Index:41.53 %)								

1	od201350/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3 kA for 1 sec.), cores laid up, inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable of the following sizes in the existing cable trench conforming to IS: 7098 part II 1985 with latest amendments. 3C x 150 Sqm	1	60.000			60.000		
		Total Quantity				60.000 metre		
		Total Deducted Quantity				0.000 metre		
		Net Total Quantity				60.000 metre		
		Say 60.000 metre @ Rs 2318.00 / metre				Rs 139080.00		
2	od201351/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3 kA for 1 sec.), cores laid up, inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable of the following sizes in the existing cable trench conforming to IS: 7098 part II 1985 with latest amendments. 3C x 50 Sqm	1	65.000			65.000		
		Total Quantity				65.000 metre		
		Total Deducted Quantity				0.000 metre		
		Net Total Quantity				65.000 metre		
		Say 65.000 metre @ Rs 1072.00 / metre				Rs 69680.00		
3	od201352/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3 kA for 1 sec.), cores laid up, inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable of the following sizes in the existing cable trench conforming to IS: 7098 part II 1985 with latest amendments. 1C x 50 Sqmm	1	20.000			20.000		
		Total Quantity				20.000 metre		
		Total Deducted Quantity				0.000 metre		
		Net Total Quantity				20.000 metre		
		Say 20.000 metre @ Rs 628.00 / metre				Rs 12560.00		
4	od201353/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termination with heat shrinkable jointing kit, including lugs and other jointing materials, for following sizes, XLPE aluminium conductor cable of 11							

	KV grade as required. 3C x 150 Sqmm						
		4					4.000
	Total Quantity						4.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						4.000 set
	Say 4.000 set @ Rs 10002.00 / set						Rs 40008.00
5	od201354/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termination with heat shrinkable jointing kit, including lugs and other jointing materials, for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 3C x 50 Sqmm						
		8					8.000
	Total Quantity						8.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						8.000 set
	Say 8.000 set @ Rs 7664.00 / set						Rs 61312.00
6	od201355/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termination with heat shrinkable jointing kit, including lugs and other jointing materials, for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 1C x 50 Sqmm						
		1					1.000
	Total Quantity						1.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						1.000 set
	Say 1.000 set @ Rs 7664.00 / set						Rs 7664.00
7	od201356/2018_2019 HT Cable Terminations - Supplying and making Outdoor cable end jointing with heat shrinkable jointing kit, including lugs and other jointing materials, for for following sizes, XLPE aluminium conductor cable of 11 KV grade as required. 3C x 150 Sqmm						
		2					2.000
	Total Quantity						2.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						2.000 set
	Say 2.000 set @ Rs 12367.00 / set						Rs 24734.00
8	od201357/2018_2019 HT Cable Terminations - Supplying and making Outdoor cable end jointing with heat shrinkable jointing kit, including lugs and other jointing materials, for for following sizes, XLPE aluminium conductor cable of						

	11 KV grade as required. 1C x 50 Sqmm						
		1					1.000
	Total Quantity						1.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						1.000 set
	Say 1.000 set @ Rs 14660.00 / set						Rs 14660.00
9	od201358/2018_2019 LT Power Cables - Supply & laying UG 2XFY,PVC insulated and PVC sheathed Copper conductor armoured Power / Control cable of 1.1 KV grade of the following sizes through trench/wall/ ceiling - 4C x 2.5 Sqmm						
		1	50.000				50.000
	Total Quantity						50.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						50.000 metre
	Say 50.000 metre @ Rs 308.00 / metre						Rs 15400.00
10	od201359/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end termination of UG cables of the following sizes using Siemens type Brass compression gland & Copper lugs etc. complete. 3.5C x 400 Sqmm (82mm)						
		6					6.000
	Total Quantity						6.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						6.000 No
	Say 6.000 No @ Rs 2152.00 / No						Rs 12912.00
11	od201360/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end termination of UG cables of the following sizes using Siemens type Brass compression gland & Copper lugs etc. complete. 3.5C x 300 Sqmm (70mm)						
		8					8.000
	Total Quantity						8.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						8.000 No
	Say 8.000 No @ Rs 1713.00 / No						Rs 13704.00
12	od201361/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end termination of UG cables of the following sizes using Siemens type Brass compression gland & Copper lugs etc. complete. 3.5C x 35						

	Sqmm (32mm)						
		2					2.000
	Total Quantity						2.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						2.000 No
	Say 2.000 No @ Rs 437.00 / No						Rs 874.00
13	od201362/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end termination of UG cables of the following sizes using Siemens type Brass compression gland & Copper lugs etc. complete. 4C x 2.5 Sqmm						
		2					2.000
	Total Quantity						2.000 No
	Total Deducted Quantity						0.000 No
	Net Total Quantity						2.000 No
	Say 2.000 No @ Rs 217.00 / No						Rs 434.00
14	od201363/2018_2019 LT Power Cables - Supply & drawing the following size of FR Multi-core PVC Insulated and PVC sheathed Copper conductor round flexible wire manufactured with bright annealed bare copper conductor as per IS 8130/1984 Insulated and sheathed with electrical grade PVC compound as per IS 5831/1984 generally conforming to IS 694/1990 for working voltage up to and including 1100 V through existing PVC conduit / casing capping wall. 3C x 0.5 Sqmm						
		1	25.000				25.000
	Total Quantity						25.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						25.000 metre
	Say 25.000 metre @ Rs 47.00 / metre						Rs 1175.00
15	od201364/2018_2019 LT Power Cables - Supply & drawing the following size of FR Multi-core PVC Insulated and PVC sheathed Copper conductor round flexible wire manufactured with bright annealed bare copper conductor as per IS 8130/1984 Insulated and sheathed with electrical grade PVC compound as per IS 5831/1984 generally conforming to IS 694/1990 for working voltage up to and including 1100 V through existing PVC conduit / casing capping wall. 3C x 1.5 Sqmm						
		1	25.000				25.000
	Total Quantity						25.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						25.000 metre
	Say 25.000 metre @ Rs 88.00 / metre						Rs 2200.00

16	od201365/2018_2019 PVC Conduits - Supply and providing the following size of ISI Marked rigid PVC conduits with specials confirming to IS 9537/1983 on surface / concealed position making good the damages made etc.complete. 20mm dia 1.5mm thick						
		1	350.000				350.000
	Total Quantity						350.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						350.000 metre
	Say 350.000 metre @ Rs 88.00 / metre						Rs 30800.00
17	od201366/2018_2019 PVC Conduits - Supply and providing the following size of ISI Marked rigid PVC conduits with specials confirming to IS 9537/1983 on surface / concealed position making good the damages made etc.complete. 25mm dia 1.5mm thick						
		1	250.000				250.000
	Total Quantity						250.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						250.000 metre
	Say 250.000 metre @ Rs 107.00 / metre						Rs 26750.00
18	od201367/2018_2019 PVC Conduits - Supply and providing the following size of ISI Marked rigid PVC conduits with specials confirming to IS 9537/1983 on surface / concealed position making good the damages made etc.complete. 32mm dia 1.5mm thick						
		1	100.000				100.000
	Total Quantity						100.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						100.000 metre
	Say 100.000 metre @ Rs 138.00 / metre						Rs 13800.00
19	od201368/2018_2019 PVC Conduits - Supply & providing Capping / Casing of good quality of the following sizes. 20 mm						
		1	100.000				100.000
	Total Quantity						100.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						100.000 metre
	Say 100.000 metre @ Rs 43.00 / metre						Rs 4300.00
20	od201369/2018_2019 PVC Conduits - Supply & providing Capping / Casing of good quality of the following sizes. 25 mm						

		1	100.000				100.000	
	Total Quantity						100.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						100.000 metre	
	Say 100.000 metre @ Rs 49.00 / metre						Rs 4900.00	
21	od201370/2018_2019 UG Cable Tamper Protection - Supply & laying the following size of B class GI Pipe for UG Cable tamper protection in the existing trench in position etc. complete. 50 mm							
		1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 379.00 / metre						Rs 3790.00	
22	od201371/2018_2019 UG Cable Tamper Protection - Supply & laying the following size of B class GI Pipe for UG Cable tamper protection in the existing trench in position etc. complete. 75 mm							
		1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 485.00 / metre						Rs 4850.00	
23	od201372/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulated copper wire manufactured with bright annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PVC compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and including 1100 V.through the existing PVC conduits / capping casing. 3 run x 4.0 Sqmm - SPN + E							
		1	100.000				100.000	
	Total Quantity						100.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						100.000 metre	
	Say 100.000 metre @ Rs 199.00 / metre						Rs 19900.00	
24	od201373/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulated copper wire manufactured with bright annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PVC compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and including 1100 V.through the existing PVC conduits / capping casing. 3 run x 2.5 Sqmm - SPN + E							

		1	200.000				200.000	
	Total Quantity						200.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						200.000 metre	
	Say 200.000 metre @ Rs 154.00 / metre						Rs 30800.00	
25	od201374/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with bright annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PVC compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and including 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E							
		1	350.000				350.000	
	Total Quantity						350.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						350.000 metre	
	Say 350.000 metre @ Rs 118.00 / metre						Rs 41300.00	
26	od201375/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of MS angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross members and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall be painted with two coats of Zinc Chromate primer and two coats of enamel paint.							
		500					500.000	
	Total Quantity						500.000 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						500.000 kg	
	Say 500.000 kg @ Rs 149.00 / kg						Rs 74500.00	
27	od201376/2018_2019 Cable Supports & Trenching- Supply and providing 6mm MS chequered plate of suitable thickness including cutting, welding, painting etc. as required for the cable trench covering.							
		100					100.000	
	Total Quantity						100.000 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						100.000 kg	
	Say 100.000 kg @ Rs 121.00 / kg						Rs 12100.00	
28	od201377/2018_2019 Charges for making cable trenches in all type of soil including providing country burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring normal surface etc.complete as per standards of the following size. 35 cm Wide x 100 cm Deep (HT Cables)							

		1	100.000				100.000	
	Total Quantity						100.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						100.000 metre	
	Say 100.000 metre @ Rs 651.00 / metre						Rs 65100.00	
29	od201378/2018_2019 Charges for making cable trenches in all type of soil including providing country burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring normal surface etc.complete as per standards of the following size. 35 cm Wide x 75 cm Deep (LT Cables)							
		1	100.000				100.000	
	Total Quantity						100.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						100.000 metre	
	Say 100.000 metre @ Rs 604.00 / metre						Rs 60400.00	
30	od195921/2018_2019 Cable Supports & Trenching - Supply route marker with 10cmx10cm GI plate 5mm thick with inscriptions there on bolted / welded to 35x35x6mm angle iron 60cm long and fixing the same in ground as required.							
		50					50.000	
	Total Quantity						50.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						50.000 No	
	Say 50.000 No @ Rs 516.00 / No						Rs 25800.00	
31	od195922/2018_2019 Cable Supports & Trenching - Supply route marker with 10cmx10cm GI plate 5mm thick with inscriptions there on bolted / welded to 35x35x6mm angle iron 60cm long and fixing the same in ground as required.							
		25					25.000	
	Total Quantity						25.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						25.000 No	
	Say 25.000 No @ Rs 417.00 / No						Rs 10425.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
162(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady plant compound- (5)- EARTHING & ACCESSORIES (Cost Index:41.53 %)								

1	od201561/2018_2019 Supply and providing plate earthing as per IS 3043 with 1200x1200x12 mm GI/CI earth plate, 50 mm GI watering pipe fixed to the earth plate with 25 x 3mm GI clamps, GI funnel with weld mesh, filling required quantity of charcoal including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 450 x 450 x 450 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top.							
			8					8.000
		Total Quantity						8.000 set
		Total Deducted Quantity						0.000 set
		Net Total Quantity						8.000 set
		Say 8.000 set @ Rs 11091.00 / set						Rs 88728.00
2	od201562/2018_2019 Supply and providing pipe earthing as per IS 3043 with 2.5 m long 40 mm dia B class GI pipe, GI funnel with weld mesh, filling required quantity of charcoal & salt including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top.							
			5					5.000
		Total Quantity						5.000 set
		Total Deducted Quantity						0.000 set
		Net Total Quantity						5.000 set
		Say 5.000 set @ Rs 2952.00 / set						Rs 14760.00
3	od201563/2018_2019 Supply & laying the following sizes of Earth Strip for earthing interconnection, termination and leads, for continuous earthing along with cables tinned at terminals etc. complete. 25 x 6 mm Copper Strip							
			1	300.000				300.000
		Total Quantity						300.000 metre
		Total Deducted Quantity						0.000 metre
		Net Total Quantity						300.000 metre
		Say 300.000 metre @ Rs 1600.00 / metre						Rs 480000.00
4	od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing interconnection, termination and leads, for continuous earthing along with cables tinned at terminals etc. complete. 25 x 3 mm Copper strip							
			1	500.000				500.000
		Total Quantity						500.000 metre

							Total Deducted Quantity	0.000 metre
							Net Total Quantity	500.000 metre
							Say 500.000 metre @ Rs 797.00 / metre	Rs 398500.00
5	od201565/2018_2019 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving earth connection as required. No.16 SWG Copper Conductor							
		1	300.000				300.000	
							Total Quantity	300.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	300.000 metre
							Say 300.000 metre @ Rs 199.00 / metre	Rs 59700.00
6	od201566/2018_2019 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving earth connection as required. No.10 SWG Copper Conductor							
		1	600.000				600.000	
							Total Quantity	600.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	600.000 metre
							Say 600.000 metre @ Rs 113.00 / metre	Rs 67800.00
SI No	Description	No	L	B	D	CF	Quantity	Remark
172(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound-(6) SUBSTATION EQUIPMENTS & MISC (Cost Index:41.53 %)								
1	od201637/2018_2019 Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 KV dielectric strength conforming to IS 5429/ 1969.							
		1	5.000				5.000	
							Total Quantity	5.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	5.000 sqm
							Say 5.000 sqm @ Rs 773.00 / sqm	Rs 3865.00
2	od201638/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 KV dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel.							
		1	2.000				2.000	
							Total Quantity	2.000 sqm
							Total Deducted Quantity	0.000 sqm

	Supply & providing Aluminium anodised Danger Notice Board of size 200 x 150 mm. with inscriptions (both in English and Malayalam) and conventional Skull and Bone in Red colour at locations as directed by the Engineer in Charge							
		10					10.000	
	Total Quantity						10.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						10.000 No	
	Say 10.000 No @ Rs 267.00 / No						Rs 2670.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
182(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound-(7) - SCHEME APPROVAL & POWER ALLOCATION (Cost Index:41.53 %)								
1	od202018/2018_2019 SCHEME APPROVAL & POWER ALLOCATION - Preparation and submission of latest scheme drawings, Voltage drop calculations, Earthing design & fault level calculations to the Electrical Inspectorate including all MV additions recently made and obtaining approval, arranging inspection for entire installation, obtaining sanction orders for the electrical installation, complete (Including all incidental and statutory expenses).							
		1					1.000	
	Total Quantity						1.000 L.S	
	Total Deducted Quantity						0.000 L.S	
	Net Total Quantity						1.000 L.S	
	Say 1.000 L.S @ Rs 20000.00 / L.S						Rs 20000.00	
2	od202020/2018_2019 SCHEME APPROVAL & POWER ALLOCATION - Preparation and submission of latest scheme drawings to KSEB for obtaining sanction for power allocation (Including all incidental and statutory expenses) .Preparation, submission and execution of HT agreement(6 sets) as per the renewed Contract demand according to the latest additions.							
		1					1.000	
	Total Quantity						1.000 L.S	
	Total Deducted Quantity						0.000 L.S	
	Net Total Quantity						1.000 L.S	
	Say 1.000 L.S @ Rs 15000.00 / L.S						Rs 15000.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
19Supply, erection, testing and commissioning of motor pump set (Cost Index:41.53 %)								
No Specifications added under this Estimate								
SI No	Description	No	L	B	D	CF	Quantity	Remark

20(4) Supply, Erection, Testing and Commissioning of 2 Nos new Vertical Turbine motor Pumpset (working voltage 3300V) having discharge of 80 lps against a total head of 180 M. suction head 20.30m at Thonithady raw water pump house (Cost Index:41.53 %)								
1	od197162/2018_2019 Supply, Erection, Testing and Commissioning of 2 Nos new Vertical Turbine motor Pumpset (working voltage 3300V) having discharge of 80 lps against a total head of 180 M. suction head 20.30 m at WTP sump.(From raw water pumping station to Alady plant) including cost of soft starter							
		2					2.000	
	Total Quantity						2.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						2.000 No	
	Say 2.000 No @ Rs 3888802.96 / No						Rs 777605.92	
2	od197164/2018_2019 Supply of additional cable beyond the initial supply of 10Mtr. Additional requirement from panel board to starter and from starter to motor							
		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Kerala Water Authority Say 25.000 metre @ Rs 1518.00 / metre						Rs 37950.00	
3	od197165/2018_2019 Supply of suitable size PVC insulated, sheathed, armoured copper conductor cable conforming to relevant IS code, for giving power connections to main switchboard to panel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement.							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 1518.00 / metre						Rs 30360.00	
4	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							
	Providing 350mm surge arrestor- Earth work in excavation	1	4.000	2.500	1.500		15.000	

								Total Quantity	1.000 No
								Total Deducted Quantity	0.000 No
								Net Total Quantity	1.000 No
								Say 1.000 No @ Rs 63841.40 / No	Rs 63841.40
9	od197171/2018_2019 STATUTORY APPROVAL FROM KSEB								
		1							1.000
								Total Quantity	1.000 No
								Total Deducted Quantity	0.000 No
								Net Total Quantity	1.000 No
								Say 1.000 No @ Rs 50000.00 / No	Rs 50000.00
SI No	Description	No	L	B	D	CF	Quantity	Remark	
21(3) Power Allocation and CD, OYEC charges etc. (Cost Index:41.53 %)									
1	od494/2019_2020 Providing 11 KV line extension, CD and OYEC charges for the power connection of Alady water treatment plant - 400 KVA (Approval from KSEB)								
		1							1.000
								Total Quantity	1.000 No
								Total Deducted Quantity	0.000 No
								Net Total Quantity	1.000 No
								Say 1.000 No @ Rs 2439594.00 / No	Rs 2439594.00
2	od495/2019_2020 Providing 11 KV line extension, CD and OYEC charges for the power connection of Thonithady raw water pumping station - 500 KVA (Approval from KSEB)								
		1							1.000
								Total Quantity	1.000 No
								Total Deducted Quantity	0.000 No
								Net Total Quantity	1.000 No
								Say 1.000 No @ Rs 872306.00 / No	Rs 872306.00
SI No	Description	No	L	B	D	CF	Quantity	Remark	
229(a) Supply, Erection, Testing and Commissioning of 2 Nos motor pump sets at Nariyanpara pump house for pumping to Nariyanpara top GL tank (Cost Index:41.53 %)									
No Specifications added under this Estimate									
SI No	Description	No	L	B	D	CF	Quantity	Remark	
239(a.) Supply, Erection, Testing and Commissioning of 2 Nos motor pump sets at Nariyanpara pump house for pumping to Nariyanpara top GL tank (Cost Index:41.53 %)									

1	od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horizontal / Vertical type multi stage Centrifugal motor Pumpset having discharge of 3.50 lps against a total head of 173 M. suction head 5m, speed 1450 rpm at Nariampara pumping station.(Intermediate sump to Narianpara Top GLSR)							
		2					2.000	
	Total Quantity						2.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						2.000 No	
	Say 2.000 No @ Rs 247846.92 / No						Rs 495693.84	
2	od54106/2020_2021 Supply of additional cable byond the initial supply of 10Mtr. Additional requirement from panel board to starter and from starter to motor							
		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Say 25.000 metre @ Rs 193.20 / metre						Rs 4830.00	
3	od54107/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper conductor cable conforming to relevant IS code, for giving power connections to main switchboard to pannel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement.							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 266.80 / metre						Rs 5336.00	
4	od54108/2020_2021 STATUTORY APPROVAL FROM KSEB							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 25000.00 / No						Rs 25000.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark

249(b) Supply, Erection, Testing and Commissioning of 2 Nos motor pump sets at Nariyanpara pump house for pumping to Mulakamedu/ Kochuthovala GL tank (Cost Index:41.53 %)								
1	od54144/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horizontal / Vertical type multi stage Centrifugal motor Pumpset having discharge of 22 lps against a total head of 113 M. suction head 5m, speed 1450 rpm at Nariampara pumping station.(Intermediate sump to Mulakamedu and Kochuthovala GLSR)							
		2					2.000	
	Total Quantity						2.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						2.000 No	
	Say 2.000 No @ Rs 734489.41 / No						Rs 1468978.82	
2	od54145/2020_2021 Supply of additional cable beyond the initial supply of 10Mtr. Additional requirement from panel board to starter and from starter to motor							
		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Say 25.000 metre @ Rs 425.50 / metre						Rs 10637.50	
3	od54146/2020_2021 Supply of suitable size PVC insulated, sheathed,armoured copper conductor cable conforming to relevant IS code, for giving power connections to main switchboard to pannel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement.							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 816.50 / metre						Rs 16330.00	
4	od54147/2020_2021 STATUTORY APPROVAL FROM KSEB							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	

SI No	Description	No	L	B	D	CF	Quantity	Remark
Say 1.000 No @ Rs 25000.00 / No							Rs 25000.00	
259(c) Supply, Erection, Testing and Commissioning of 2 Nos motor pump sets at Kalthotty pump house pumping to Labbakada GL tank (Cost Index:41.53 %)								
1	od54190/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horizontal / Vertical type multi stage Centrifugal motor Pumpset having discharge of 11 lps against a total head of 19 M. suction head 5m, speed 1450 rpm at Kalthotty pumping station.(To Labbakada GLSR)							
		2					2.000	
Total Quantity							2.000 No	
Total Deducted Quantity							0.000 No	
Net Total Quantity							2.000 No	
Say 2.000 No @ Rs 116130.51 / No							Rs 232261.02	
2	od54191/2020_2021 STATUTORY APPROVAL FROM KSEB							
		1					1.000	
Total Quantity							1.000 No	
Total Deducted Quantity							0.000 No	
Net Total Quantity							1.000 No	
Say 1.000 No @ Rs 5000.00 / No							Rs 5000.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
269(d) Supply, Erection, Testing and Commissioning of 2 Nos motor pump sets at Kalthotty pump house pumping to Meppara GL tank (Cost Index:41.53 %)								
1	od54202/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horizontal / Vertical type multi stage Centrifugal motor Pumpset having discharge of 11 lps against a total head of 184 M. suction head 5m, speed 1450 rpm at Kalthotty pumping station.(Kalthotty to Mepar GLSR)							
		2					2.000	
Total Quantity							2.000 No	
Total Deducted Quantity							0.000 No	
Net Total Quantity							2.000 No	
Say 2.000 No @ Rs 646338.97 / No							Rs 1292677.94	
2	od54203/2020_2021 Supply of additional cable beyond the initial supply of 10Mtr. Additional requirement from panel board to starter and from starter to motor							
		1	25.000				25.000	
Total Quantity							25.000 metre	

								Total Quantity	1.000 L.S
								Total Deducted Quantity	0.000 L.S
								Net Total Quantity	1.000 L.S
								Say 1.000 L.S @ Rs 200000.00 / L.S	Rs 200000.00
3	od54542/2020_2021	Power allocation and energization of clear water pump house at Nariyampara (Including application fee, power allocation fee , Estimate cost for service connection, Cash deposit) - As per intimation notice DB-2018-19/ESKNCHR/326 dated 22.03.2019 from KSEB)							
		1							1.000
								Total Quantity	1.000 No
								Total Deducted Quantity	0.000 No
								Net Total Quantity	1.000 No
								Say 1.000 No @ Rs 920000.00 / No	Rs 920000.00
4	od54543/2020_2021	Any additional cost for actual execution of work - Power allocation and energization of clear water pump house at Nariyampara 160 KVA (Approval from KSEB)							
		1							1.000
								Total Quantity	1.000 L.S
								Total Deducted Quantity	0.000 L.S
								Net Total Quantity	1.000 L.S
								Say 1.000 L.S @ Rs 200000.00 / L.S	Rs 200000.00
SI No	Description	No	L	B	D	CF	Quantity	Remark	
2813 - Supply, erection, testing and commissioning of motor pumpsets at Alady pump house (Cost Index:41.53 %)									
No Specifications added under this Estimate									
SI No	Description	No	L	B	D	CF	Quantity	Remark	
29Supply, Erection, Testing and Commissioning of 2 Nos Centrifugal Motor Pumpset having discharge of 5 lps against a total head of 81 M. suction head 5m at WTP sump for pumping to Alady Kurisumala GLSR. (Cost Index:41.53 %)									
1	od54791/2020_2021	Supply, Erection, Testing and Commissioning of 2 Nos new Horizontal / Vertical type multi stage Centrifugal motor Pumpset having discharge of 5 lps against a total head of 81 M. suction head 5m, speed 1450 rpm at Alady water treatment plant to Alady GLSR.							
		2							2.000
								Total Quantity	2.000 No
								Total Deducted Quantity	0.000 No
								Net Total Quantity	2.000 No

	Say 2.000 No @ Rs 238352.12 / No						Rs 476704.24	
2	od54792/2020_2021 Supply of additional cable beyond the initial supply of 10Mtr. Additional requirement from panel board to starter and from starter to motor							
		1	25.000				25.000	
	Total Quantity						25.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						25.000 metre	
	Say 25.000 metre @ Rs 416.30 / metre						Rs 10407.50	
3	od54793/2020_2021 Supply of suitable size PVC insulated, sheathed,armoured copper conductor cable conforming to relevantIS code, for giving power connections to main switchboard to pannel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement.							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 416.30 / metre						Rs 8326.00	
4	od54794/2020_2021 STATUTORY APPROVAL FROM KSEB							
		1					1.000	
	Total Quantity						1.000 No	
	Total Deducted Quantity						0.000 No	
	Net Total Quantity						1.000 No	
	Say 1.000 No @ Rs 25000.00 / No						Rs 25000.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
30(2) - Supply, Erection, Testing and Commissioning of 2 Nos new Centrifugal motor Pumpset having discharge of 65 lps against a total head of 125 M. suction head 5m speed 1450 rpm at WTP sump for pumping to Kalthotty / Nariyampara sumps (Cost Index:41.53 %)								
1	od55073/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horizontal / Vertical type multi stage Centrifugal motor Pumpset having discharge of 65 lps against a total head of 125 M. suction head 5m, speed 1450 rpm at WTP Alady. (From sump to Nariyanpara/ kalthotty intermediate pumping station) including soft starter							
		2					2.000	
	Total Quantity						2.000 No	

		Total Deducted Quantity					0.000 No	
		Net Total Quantity					2.000 No	
		Say 2.000 No @ Rs 2884326.68 / No					Rs 5768653.36	
2	od55074/2020_2021 Supply of additional cable beyond the initial supply of 10Mtr. Additional requirement from panel board to starter and from starter to motor							
		1	25.000				25.000	
		Total Quantity					25.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					25.000 metre	
		Say 25.000 metre @ Rs 1104.00 / metre					Rs 27600.00	
3	od55075/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper conductor cable conforming to relevant IS code, for giving power connections to main switchboard to panel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement.							
		1	20.000				20.000	
		Total Quantity					20.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					20.000 metre	
		Say 20.000 metre @ Rs 1104.00 / metre					Rs 22080.00	
4	od55076/2020_2021 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 classes of soil (Rate as per DSR Observed data)							
		1	4.000	2.500	1.500		15.000	
		Total Quantity					15.000 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					15.000 cum	
		Say 15.000 cum @ Rs 425.54 / cum					Rs 6383.10	
5	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							
		1	4.000	2.500	1.500		15.000	

