Abstract 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.

(Dsor year: **2018**)

1	<ul><li>2.31</li><li>Clearing jungle including uprooting of rank vegetation, grass, brush wo to 30 cm measured at a height of 1 m above ground level and removal m outside the periphery of the area cleared</li></ul>	
	Net Total Quantity 9	00.000 sqm
	Say 900.000 sqm @ Rs 15.43 / sqm	Rs 13887.00
2	15.7.4 Kerala Water Authority Demolishing brick work manually / by mechanical means including star disposal of unserviceable material within 50 metres lead as per dir cement mortar	
	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 trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), ramming of bottoms, lift up to 1.5 m, including getting out the excava excavated soil as directed, within a lead of 50 m.All kinds of soil	including dressing of sides ar
	Net Total Quantity 5	13.822 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 in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	• • •
	Net Total Quantity	.968 cum

5	4.1.5 Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand nominal size)	• •
	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 size confirming to IS 2185 Part I of 1979 for super structure above thickness 20cm and above in: CM 1:6 (1 cement :6 coarse sand)	floor two level up to floor V lev
	Net Total Quantity	25.157 cum
	Say 25.157 cum @ Rs 7784.73 / cum	Rs 195840.45
7	10.6.1 Supplying and fixing rolling shutters of approved make, made of red together through their entire length and jointed together at the end b designed pipe shaft with brackets, side guides and arrangements for in and pull operation complete, including the cost of providing and fix springs manufactured from high tensile steel wire of adequate streng and M.S. top cover of required thickness for rolling shutters.80x1.25 top cover	y end locks, mounted on special nside and outside locking with pus king necessary 27.5 cm long wi gth conforming to IS: 4454 - part
	Net Total Quantity	17.700 sqm
	Say 17.700 sqm @ Rs 3617.29 / sqm	Rs 64026.03
8	10.5.1 Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40 gusset plates at the junctions and corners, all necessary fittings com coat of approved steel primer.Using M.S. angels 40x40x6 mm for dia	0x6 mm angle iron and 3 mm M. plete, including applying a primir
	Net Total Quantity	-
	Say 1.800 sqm @ Rs 5440.63 / sqm	•
9	50.9.1.3 Providing wood work in frames of doors, windows, clerestory windows and fixed in position with hold fast lugs or with dash fasteners of requ dash fastener shall be paid for separately). using good quality Vengai	and other frames, wrought frame
	Net Total Quantity	0.256 cum
	Say 0.256 cum @ Rs 80265.15 / cum	
10	50.9.2.3 Providing and fixing paneled or paneled and glazed shutters for doors 35 mm thick shutters including ISI marked M.S pressed butt hinges b necessary screws, excluding paneling which will be paid for separate Engineer in -charge.using Vengai wood	s, windows and clerestory window pright finished of required size wi

	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 concrete for reinforced cement concrete work, using cement cont including pumping of concrete to site of laying but excluding the cost and reinforcement, including admixtures in recommended proportion retard setting of concrete, improve workability without impairing streng Engineer - in-charge. Note:- Cement content considered in this item cement used as per design mix is payable or recoverable separately	tent as per approved design mix t of centering, shuttering, finishin ons as per IS: 9103 to accelerate th and durability as per direction of is @ 330 kg/ cum. Excess or les
	Net Total Quantity	79.842 cum
	Say 79.842 cum @ Rs 9825.93 / cum	Rs 784521.90
12	5.33.2 Providing and laying in position machine batched and machine mixe concrete for reinforced cement concrete work, using cement cont including pumping of concrete to site of laying but excluding the cos and reinforcement, including admixtures in recommended proportion retard setting of concrete, improve workability without impairing streng Engineer - in-charge. Note:- Cement content considered in this item cement used as per design mix is payable or recoverable separately.A V level	tent as per approved design mit t of centering, shuttering, finishin ons as per IS: 9103 to accelerate th and durability as per direction of is @ 330 kg/ cum. Excess or les Il work above plinth level upto floo
	Kerala Water Authority	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 content used is payable/ recoverable separately.Providing M-30 grad BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg	de concrete instead of M-25 grad /cum).
	Net Total Quantity	
14	Say 207.519 cum @ Rs 85.70 / cum 5.2.2 Reinforced cement concrete work in walls (any thickness), including a and string courses, fillets, columns, pillars, piers, abutments, posts a excluding cost of centering, shuttering, finishing and reinforcement :1: 3 graded stone aggregate 20 mm nominal size)	nd struts etc. up tot floor five leve
	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	• • • •
	binding all complete upto plinth levelThermo - Mechanically Treate	d bars of grade Fe-500D or mo

	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 f columns, etc for mass concrete	or:Foundations, footings, bases
	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 f landings, balconies and access platform	orm for:Suspended floors, roo
	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 girders bressumers and cantilevers	n for:Lintels, beams, plinth bear
	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 Abutments, Posts and Struts	form for:Columns, Pillars, Pie
	Kerala Water Authonity	430.401 sqm
	Say 430.401 sqm @ Rs 901.48 / sqm	Rs 387997.89
20		Rs 387997.89
20	Say 430.401-sqm @ Rs 901.48 / sqm 13.7.1	Rs 387997.89
20	Say 430.401 sqm @ Rs 901.48 / sqm 13.7.1 12 mm cement plaster finished with a floating coat of neat cement of m	Rs 387997.89
20	Say 430.401 sqm @ Rs 901.48 / sqm 13.7.1 12 mm cement plaster finished with a floating coat of neat cement of m Net Total Quantity	Rs 387997.89 ix:1:3 ( 1 cement : 3 fine sand) 1503.771 sqm Rs 629764.26
	Say 430.401 sqm @ Rs 901.48 / sqm 13.7.1 12 mm cement plaster finished with a floating coat of neat cement of m Net Total Quantity Say 1503.771 sqm @ Rs 418.79 / sqm 13.8.2 15 mm cement plaster on rough side of single or half brick wall fin	Rs 387997.89           ix:1:3 (1 cement : 3 fine sand)           1503.771 sqm           Rs 629764.26           ished with a floating coat of negative
	Say 430.401-sqm @ Rs 901.48 / sqm 13.7.1 12 mm cement plaster finished with a floating coat of neat cement of m Net Total Quantity Say 1503.771 sqm @ Rs 418.79 / sqm 13.8.2 15 mm cement plaster on rough side of single or half brick wall fin cement of mix:1: 4 ( 1 cement : 4 fine sand)	Rs 387997.89           ix:1:3 (1 cement : 3 fine sand)           1503.771 sqm           Rs 629764.26           ished with a floating coat of negative
	Say 430.401-sqm @ Rs 901.48 / sqm 13.7.1 12 mm cement plaster finished with a floating coat of neat cement of m Net Total Quantity Say 1503.771 sqm @ Rs 418.79 / sqm 13.8.2 15 mm cement plaster on rough side of single or half brick wall fin cement of mix:1: 4 ( 1 cement : 4 fine sand) Net Total Quantity	Rs 387997.89         ix:1:3 (1 cement : 3 fine sand)         1503.771 sqm         Rs 629764.26         ished with a floating coat of ne         337.251 sqm         Rs 153027.64
21	Say 430.401-sqm @ Rs 901.48 / sqm         13.7.1         12 mm cement plaster finished with a floating coat of neat cement of m         Net Total Quantity         Say 1503.771 sqm @ Rs 418.79 / sqm         13.8.2         15 mm cement plaster on rough side of single or half brick wall fin cement of mix:1: 4 ( 1 cement : 4 fine sand)         Net Total Quantity         Say 337.251 sqm @ Rs 453.75 / sqm         13.44.1         Finishing walls with water proofing cement paint of required shade:New	Rs 387997.89         ix:1:3 (1 cement : 3 fine sand)         1503.771 sqm         Rs 629764.26         ished with a floating coat of ne         337.251 sqm         Rs 153027.64         w work (Two or more coats appli

23	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manu or more coats on new work	facture to give an even shade:Two
	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 mo	re coats)
	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 chromat manufacture on steel galvanised iron /steel works	e primer of approved brand and
	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 ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture	urface Paint to give an even shade.
	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	
	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 ap and / or alkali resisting mortar bedding, and joints filled with acid and /o 4457, complete as per the direction of Engineer-in-Charge.In flooring (1 acid proof cement : 4 coarse sand)Acid and alkali resistant tile	or alkali resisting cement as per IS :
	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 ap and / or alkali resisting mortar bedding, and joints filled with acid and /o 4457, complete as per the direction of Engineer-in-Charge.In dado/ sk acid proof cement : 4 coarse sand)Acid and alkali resistant tile Net Total Quantity	or alkali resisting cement as per IS : irting on 12 mm thick mortar 1:4 (1

	Say 12.960 sqm @ Rs 1975.33 / sqm	Rs 25600.28
30	11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm manufacturer), of 1st quality conforming to IS : 15622, of approved ma Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 C pointing the joints with white cement and matching pigment etc., com	ike, in colours such as White, Ivor ement : 4 Coarse sand), includin
	Net Total Quantity	3.151 sqm
	Say 3.151 sqm @ Rs 1138.82 / sqm	Rs 3588.42
31	<ul> <li>11.22.1.1</li> <li>Tile work in skirting, risers of steps and dado upto 2 m height, over 12 (1 cement : 3 coarse sand) and jointed with grey cement slurry @ 3.3 cement mixed with pigment of matching shade complete.Marble tiles (</li> </ul>	kg/sqm, including pointing in whi
	Net Total Quantity	15.121 sqm
	Say 15.121 sqm @ Rs 1523.00 / sqm	Rs 23029.28
32	od2083/2019_2020	
	Providing sanitary facilities and electrical works including water closet taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge.	-
	taps, 250ltr capacity PVC water tank and other required sanitary and e	electrical fittings as per the direction
	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No	electrical fittings as per the direction
33	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority	electrical fittings as per the direction 1.000 No Rs 42488.69
33	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No	electrical fittings as per the direction 1.000 No <b>Rs 42488.69</b> d works etc.complete.
33	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority Providing gantry girder arrangements to existing pump house with allie	electrical fittings as per the direction 1.000 No <b>Rs 42488.69</b> d works etc.complete.
33	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority Providing gantry girder arrangements to existing pump house with allie Net Total Quantity	electrical fittings as per the direction 1.000 No Rs 42488.69 d works etc.complete. 1.000 No Rs 80000.00
	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority Providing gantry girder arrangements to existing pump house with allie Net Total Quantity Say 1.000 No @ Rs 80000.00 / No od173455/2020_2021 Providing and fixing MS hook of 22mm dia, bend to shape in RCC sla	electrical fittings as per the direction 1.000 No Rs 42488.69 d works etc.complete. 1.000 No Rs 80000.00 b (ceiling of control room) or bea
	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority Providing gantry girder arrangements to existing pump house with allie Net Total Quantity Say 1.000 No @ Rs 80000.00 / No od173455/2020_2021 Providing and fixing MS hook of 22mm dia, bend to shape in RCC sla as per standards including painting the exposed portion	electrical fittings as per the direction 1.000 No Rs 42488.69 d works etc.complete. 1.000 No Rs 80000.00 b (ceiling of control room) or bea 12.000 No
	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority Providing gantry girder arrangements to existing pump house with allie Net Total Quantity Say 1.000 No @ Rs 80000.00 / No od173455/2020_2021 Providing and fixing MS hook of 22mm dia, bend to shape in RCC sla as per standards including painting the exposed portion Net Total Quantity	electrical fittings as per the direction 1.000 No Rs 42488.69 d works etc.complete. 1.000 No Rs 80000.00 b (ceiling of control room) or bea 12.000 No Rs 3619.32 tubes etc.) trusses etc., includir ved steel primer, including weldir
34	taps, 250ltr capacity PVC water tank and other required sanitary and e of departmental officers in charge. Net Total Quantity Say 1.000 No @ Rs 42488.69 / No od148982/2018_2019 Kerala Water Authority Providing gantry girder arrangements to existing pump house with allie Net Total Quantity Say 1.000 No @ Rs 80000.00 / No od173455/2020_2021 Providing and fixing MS hook of 22mm dia, bend to shape in RCC sla as per standards including painting the exposed portion Net Total Quantity Say 12.000 No @ Rs 301.61 / No 10.16.2 Steel work in built up tubular (round, square or rectangular hollow cutting, hoisting, fixing position and applying a priming coat of approx	electrical fittings as per the direction 1.000 No Rs 42488.69 d works etc.complete. 1.000 No Rs 80000.00 b (ceiling of control room) or bea 12.000 No Rs 3619.32 tubes etc.) trusses etc., includir ved steel primer, including weldir eamless type tubes

1	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush w	
	to 30 cm measured at a height of 1 m above ground level and remova m outside the periphery of the area cleared	al of rubbish up to a distance of 5
	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 excavat trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan ramming of bottoms, lift up to 1.5 m, including getting out the excav excavated soil as directed, within a lead of 50 m.All kinds of soil	), including dressing of sides ar
	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 in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	e 20 mm nominal size) up to plin
	Net Total Quantity	19.125 cum
4	Say 19.125 cum @ Rs 7520.41 / cum 5.1.3	Rs 143827.84
4	5.1.3 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars
4	5.1.3 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size) Net Total Quantity	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum
4	5.1.3 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum Rs 104896.19
	5.1.3 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size) Net Total Quantity Say 11.701 cum @ Rs 8964.72 / cum 5.9.2	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum Rs 104896.19
	5.1.3 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size) Net Total Quantity Say 11.701 cum @ Rs 8964.72 / cum 5.9.2 Centering and shuttering including strutting, etc. and removal of form	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum <b>Rs 104896.19</b> for:Walls (any thickness) includir
	5.1.3         Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)         Net Total Quantity         Say 11.701 cum @ Rs 8964.72 / cum         5.9.2         Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc.	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum <b>Rs 104896.19</b> for:Walls (any thickness) includin
	5.1.3         Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)         Net Total Quantity         Say 11.701 cum @ Rs 8964.72 / cum         5.9.2         Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc.         Net Total Quantity	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum <b>Rs 104896.19</b> for:Walls (any thickness) includir 99.002 sqm <b>Rs 74114.88</b> bending, placing in position ar
5	5.1.3         Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)         Net Total Quantity         Say 11.701 cum @ Rs 8964.72 / cum         5.9.2         Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc.         Net Total Quantity         Say 99.002 sqm @ Rs 748.62 / sqm         5.22.6         Steel reinforcement for R.C.C work including straightening, cutting,	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum <b>Rs 104896.19</b> for:Walls (any thickness) includir 99.002 sqm <b>Rs 74114.88</b> bending, placing in position ar d bars of grade Fe-500D or mo
5	5.1.3         Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)         Net Total Quantity         Say 11.701 cum @ Rs 8964.72 / cum         5.9.2         Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc.         Net Total Quantity         Say 99.002 sqm @ Rs 748.62 / sqm         5.22.6         Steel reinforcement for R.C.C work including straightening, cutting, binding all complete upto plinth levelThermo - Mechanically Treated	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum <b>Rs 104896.19</b> for:Walls (any thickness) includin 99.002 sqm <b>Rs 74114.88</b> bending, placing in position and d bars of grade Fe-500D or mo
5	5.1.3         Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size)         Net Total Quantity         Say 11.701 cum @ Rs 8964.72 / cum         5.9.2         Centering and shuttering including strutting, etc. and removal of form attached pilasters, butteresses, plinth and string courses etc.         Net Total Quantity         Say 99.002 sqm @ Rs 748.62 / sqm         5.22.6         Steel reinforcement for R.C.C work including straightening, cutting, binding all complete upto plinth levelThermo - Mechanically Treated Net Total Quantity	nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coars 11.701 cum Rs 104896.19 for:Walls (any thickness) includin 99.002 sqm Rs 74114.88 bending, placing in position ar d bars of grade Fe-500D or mo 7.021 kilogram Rs 720.42

	Say 166.500 sqm @ Rs 403.29 / sqm	Rs 67147.79	
Civil	works-(b)Construction of Electrical Control room at water treatment		
	road work(1)Construction of control room . (Cost Inc	dex:41.53 %)	
1	2.31		
	Clearing jungle including uprooting of rank vegetation, grass, brush w		
	to 30 cm measured at a height of 1 m above ground level and remova	al of rubbish up to a distance of 5	
	m outside the periphery of the area cleared		
	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 excavat		
	trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan	, .	
	ramming of bottoms, lift up to 1.5 m, including getting out the excar excavated soil as directed, within a lead of 50 m.All kinds of soil	valed soil and disposal of surpli	
	A S BUS SIL		
	Net Total Quantity	200.965 cum	
	Say 200.965 cum @ Rs 309.95 / cum	Rs 62289.10	
	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 leve	lled and neatly dressed Hard ro	
	earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be leve (requiring blasting)	lled and neatly dressed.Hard ro	
	(requiring blasting) Kerala Water Authority		
	(requiring blasting)		
	(requiring blasting) Kerala Water Authority	5.400 cum	
4	(requiring blasting) Kerala Water Authority Net Total Quantity	5.400 cum	
4	(requiring blasting) Kerala Water Authority Net Total Quantity Say 5.400 cum @ Rs 749.05 / cum	5.400 cum Rs 4044.87	
4	(requiring blasting) Kerala Water Authority Net Total Quantity Say 5.400 cum @ Rs 749.05 / cum 7.1.1	5.400 cum Rs 4044.87 ncluding levelling up with ceme	
4	(requiring blasting) Kerala Water Authority Net Total Quantity Say 5.400 cum @ Rs 749.05 / cum 7.1.1 Random rubble masonry with hard stone in foundation and plinth in	5.400 cum Rs 4044.87 Including levelling up with ceme	
4	(requiring blasting)         Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth is concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregated level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	5.400 cum <b>Rs 4044.87</b> ncluding levelling up with ceme re 20 mm nominal size) up to plin	
4	(requiring blasting) Kerala Water Authority Net Total Quantity Say 5.400 cum @ Rs 749.05 / cum 7.1.1 Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand) Net Total Quantity	5.400 cum Rs 4044.87 Including levelling up with ceme re 20 mm nominal size) up to plin 18.407 cum	
	(requiring blasting) Kerala Water Authority Net Total Quantity Say 5.400 cum @ Rs 749.05 / cum 7.1.1 Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand) Net Total Quantity Say 18.407 cum @ Rs 7520.41 / cum	5.400 cum <b>Rs 4044.87</b> ncluding levelling up with ceme re 20 mm nominal size) up to plin	
4	(requiring blasting) Kerala Water Authority Net Total Quantity Say 5.400 cum @ Rs 749.05 / cum 7.1.1 Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand) Net Total Quantity Say 18.407 cum @ Rs 7520.41 / cum 4.1.5	5.400 cum Rs 4044.87 Including levelling up with ceme te 20 mm nominal size) up to plin 18.407 cum Rs 138428.19	
	(requiring blasting)         Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth is concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5         Providing and laying in position cement concrete of specified grade end	5.400 cum Rs 4044.87 Including levelling up with ceme re 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering an	
	(requiring blasting)         Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5         Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand	5.400 cum Rs 4044.87 Including levelling up with ceme re 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering an	
	(requiring blasting)         Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5       Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand nominal size)	5.400 cum Rs 4044.87 Including levelling up with ceme the 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering an the cost of centering and the cost	
	(requiring blasting)         Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5         Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand	5.400 cum Rs 4044.87 Including levelling up with ceme the 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering and the cos	
	(requiring blasting)         Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5       Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand nominal size)	5.400 cum Rs 4044.87 Including levelling up with ceme the 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering and the cos	
	(requiring blasting)       Kerala Water Authority Net Total Quantity         Net Total Quantity       Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5       Providing and laying in position cement concrete of specified grade effective shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand nominal size)       Net Total Quantity	5.400 cum Rs 4044.87 Rs 4044.87 Rs 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering an 6 graded stone aggregate 20 m 14.724 cum	
5	Kerala Water Authority Net Total Quantity         Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1       Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregated level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5         Providing and laying in position cement concrete of specified grade esshuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand nominal size)         Net Total Quantity         Net Total Quantity         Say 14.724 cum @ Rs 7690.32 / cum	5.400 cum Rs 4044.87 Including levelling up with ceme re 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering and c 6 graded stone aggregate 20 m 14.724 cum Rs 113232.27	
5	(requiring blasting)       Kerala Water Authority Net Total Quantity         Say 5.400 cum @ Rs 749.05 / cum         7.1.1         Random rubble masonry with hard stone in foundation and plinth in concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat level with:Cement mortar 1:6 (1 cement : 6 coarse sand)         Net Total Quantity         Say 18.407 cum @ Rs 7520.41 / cum         4.1.5         Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand nominal size)         Net Total Quantity         Say 14.724 cum @ Rs 7690.32 / cum         50.6.1.3	5.400 cum Rs 4044.87 Including levelling up with ceme te 20 mm nominal size) up to plin 18.407 cum Rs 138428.19 excluding the cost of centering and the cost of centering and t	

	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 rec together through their entire length and jointed together at the end be designed pipe shaft with brackets, side guides and arrangements for in and pull operation complete, including the cost of providing and fix springs manufactured from high tensile steel wire of adequate streng and M.S. top cover of required thickness for rolling shutters.80x1.25 top cover	y end locks, mounted on special nside and outside locking with pus ting necessary 27.5 cm long wir nth conforming to IS: 4454 - part
	Net Total Quantity	9.000 sqm
	Say 9.000 sqm @ Rs 3617.29 / sqm	Rs 32555.61
8	21.1.1.1 Providing and fixing aluminium work for doors, windows, ventilators and standard tubular sections/ appropriate Z sections and other sections of 733 and IS: 1285, fixing with dash fasteners of required dia and size gaps at junctions, i.e. at top, bottom and sides with required EPE	f approved make conforming to IS , including necessary filling up th DM rubber/ neoprene gasket et
	Aluminium sections shall be smooth, rust free, straight, mitred an required including cleat angle, Aluminnium snap beading for glazing /p screws, all complete as per architectural drawings and the direction paneling and dash fasteners to be paid for separately):For fixed port transparent or dyed to required shade according to IS : 1868, Minimu Net Total Quantity Say 13.389 kg @ Rs 520.90 / kg	aneling, C.P. brass/ stainless ste ns of Engineer-in-charge.(Glazin ionAnodised aluminium (anodise im anodic coating of grade AC 15
9	required including cleat angle, Aluminnium snap beading for glazing /p screws, all complete as per architectural drawings and the direction paneling and dash fasteners to be paid for separately):For fixed port transparent or dyed to required shade according to IS : 1868, Minimu Kerala Water Automy Net Total Quantity	aneling, C.P. brass/ stainless ste as of Engineer-in-charge.(Glazin ionAnodised aluminium (anodise im anodic coating of grade AC 15 13.389 kg Rs 6974.33 Itters and partitions etc. with EPD ags and the directions of Engineer
9	required including cleat angle, Aluminnium snap beading for glazing /p screws, all complete as per architectural drawings and the direction paneling and dash fasteners to be paid for separately):For fixed port transparent or dyed to required shade according to IS : 1868, Minimu Net Total Quantity Say 13.389 kg @ Rs 520.90 / kg 21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shur rubber / neoprene gasket etc. complete as per the architectural drawin in -Charge. ( Cost of aluminium snap beading shall be paid in basic i	aneling, C.P. brass/ stainless ste as of Engineer-in-charge.(Glazin ionAnodised aluminium (anodise im anodic coating of grade AC 19 13.389 kg <b>Rs 6974.33</b> tters and partitions etc. with EPD ags and the directions of Engineer item):With float glass panes of 4
9	required including cleat angle, Aluminnium snap beading for glazing /p screws, all complete as per architectural drawings and the direction paneling and dash fasteners to be paid for separately):For fixed port transparent or dyed to required shade according to IS : 1868, Minimu Net Total Quantity Say 13.389 kg @ Rs 520.90 / kg 21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shut rubber / neoprene gasket etc. complete as per the architectural drawin in -Charge. ( Cost of aluminium snap beading shall be paid in basic i mm thickness	aneling, C.P. brass/ stainless ste as of Engineer-in-charge.(Glazin ionAnodised aluminium (anodise im anodic coating of grade AC 19 13.389 kg <b>Rs 6974.33</b> tters and partitions etc. with EPD ags and the directions of Engineer item):With float glass panes of 4
9	required including cleat angle, Aluminnium snap beading for glazing /p screws, all complete as per architectural drawings and the direction paneling and dash fasteners to be paid for separately):For fixed port transparent or dyed to required shade according to IS : 1868, Minimu Net Total Quantity Say 13.389 kg @ Rs 520.90 / kg 21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shut rubber / neoprene gasket etc. complete as per the architectural drawin in -Charge. ( Cost of aluminium snap beading shall be paid in basic i mm thickness Net Total Quantity	aneling, C.P. brass/ stainless stee as of Engineer-in-charge.(Glazin ionAnodised aluminium (anodise im anodic coating of grade AC 1) 13.389 kg Rs 6974.33 Rs 6974.33 tters and partitions etc. with EPD ags and the directions of Engineer item):With float glass panes of 4 7.500 sqm Rs 9211.50 nt concrete, excluding the cost
	required including cleat angle, Aluminnium snap beading for glazing /p screws, all complete as per architectural drawings and the direction paneling and dash fasteners to be paid for separately):For fixed port transparent or dyed to required shade according to IS : 1868, Minimu Net Total Quantity Say 13.389 kg @ Rs 520.90 / kg 21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shut rubber / neoprene gasket etc. complete as per the architectural drawin in -Charge. ( Cost of aluminium snap beading shall be paid in basic i mm thickness Net Total Quantity Say 7.500 sqm @ Rs 1228.20 / sqm 5.1.2 Providing and laying in position specified grade of reinforced cemer centering, shuttering, finishing and reinforcement - All work up to plinth	aneling, C.P. brass/ stainless steens of Engineer-in-charge.(Glazin ionAnodised aluminium (anodised im anodic coating of grade AC 1) 13.389 kg Rs 6974.33 Rs 6974.33 Rs 6974.33 Rters and partitions etc. with EPD igs and the directions of Engineer item):With float glass panes of 4 7.500 sqm Rs 9211.50 nt concrete, excluding the cost level:1:1:5:3 (1 cement 1.5 coars

11	<ul> <li>5.2.2</li> <li>Reinforced cement concrete work in walls (any thickness), including a and string courses, fillets, columns, pillars, piers, abutments, posts a excluding cost of centering, shuttering, finishing and reinforcement :1:</li> <li>3 graded stone aggregate 20 mm nominal size)</li> </ul>	nd struts etc. up tot floor five level
	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 binding all complete above plinth level.Thermo - Mechanically Treate	• • • •
	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 columns, etc for mass concrete	for:Foundations, footings, bases of
	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 t landings, balconies and access platform	-
	Kerala Water 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 girders bressumers and cantilevers	n for:Lintels, beams, plinth beams,
	Net Total Quantity	73.182 sqm
	Say 73.182 sqm @ Rs 678.28 / sqm	Rs 49637.89
16	5.9.6 Centering and shuttering including strutting, etc. and removal of Abutments, Posts and Struts	form for:Columns, Pillars, Piers,
	Net Total Quantity	59.040 sqm
	Say 59.040 sqm @ Rs 901.48 / sqm	Rs 53223.38
17	13.7.1 12 mm cement plaster finished with a floating coat of neat cement of m	
	Net Total Quantity	207.662 sqm
	Say 207.662 sqm @ Rs 418.79 / sqm	Rs 86966.77

18	13.8.2	
	15 mm cement plaster on rough side of single or half brick wall fin	ished with a floating coat of nea
	cement of mix:1: 4 (1 cement : 4 fine sand)	
	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 mo	re coats)
	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:Net	w work (Two or more coats applie
	@ 3.84 kg/10 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	e primer of approved brand a
	manufacture on steel galvanised iron /steel works	5
	Not Total Overthe	10.000
	Net Total Quantity	18.000 sqm
	Say 18.000 sqm @ Rs 62.27 / sqm	
22	Say 18.000 sqm @ Rs 62.27 / sqm	
22	Say 18.000 sqm @ Rs 62.27 / sqm	Rs 1120.86
22	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su	<b>Rs 1120.86</b> nd exteriors using primer as p urface Paint to give an even shad
22	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p	<b>Rs 1120.86</b> nd exteriors using primer as p urface Paint to give an even shad
22	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm
22	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm
22	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm
22	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shac rimer applied @ 0.80 ltr/10 sqm 18.000 sqm
	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm
	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71 Lettering with black Japan pint of approved brand and manufacture	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm
	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71 Lettering with black Japan pint of approved brand and manufacture	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16
	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71 Lettering with black Japan pint of approved brand and manufacture Net Total Quantity	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16 1500.000 Letterxcm ht
23	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi SL Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71 Lettering with black Japan pint of approved brand and manufacture Net Total Quantity Say 1500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16 1500.000 Letterxcm ht Rs 8700.00
23	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71 Lettering with black Japan pint of approved brand and manufacture Net Total Quantity Say 1500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht 11.21.1.1	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16 1500.000 Letterxcm ht Rs 8700.00 proved make and colour using ad
23	Say 18.000 sqm @ Rs 62.27 / sqm         13.48.3       Kerala Water Authority         Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture         Net Total Quantity         Say 18.000 sqm @ Rs 154.62 / sqm         13.71       Lettering with black Japan pint of approved brand and manufacture         Net Total Quantity         Say 1500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht         11.21.1.1         Providing and fixing 10 mm thick acid and /or alkali resistant tiles of ap and / or alkali resisting mortar bedding, and joints filled with acid and /or 4457, complete as per the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the directi	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16 1500.000 Letterxcm ht Rs 8700.00 proved make and colour using ac or alkali resisting cement as per la
23	Say 18.000 sqm @ Rs 62.27 / sqm 13.48.3 Kerala Water Authority Finishing with Deluxe Multi surface paint system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture Net Total Quantity Say 18.000 sqm @ Rs 154.62 / sqm 13.71 Lettering with black Japan pint of approved brand and manufacture Net Total Quantity Say 1500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht 11.21.1.1 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of ap and / or alkali resisting mortar bedding, and joints filled with acid and /or	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shac rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16 1500.000 Letterxcm ht Rs 8700.00 proved make and colour using ac or alkali resisting cement as per la
23	Say 18.000 sqm @ Rs 62.27 / sqm         13.48.3       Kerala Water Authority         Finishing with Deluxe Multi surface paint-system for interiors ar manufacturers specifications:Painting Steel work with Deluxe Multi Su Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of p approved brand and manufacture         Net Total Quantity         Say 18.000 sqm @ Rs 154.62 / sqm         13.71       Lettering with black Japan pint of approved brand and manufacture         Net Total Quantity         Say 1500.000 Letterxcm ht @ Rs 5.80 / Letterxcm ht         11.21.1.1         Providing and fixing 10 mm thick acid and /or alkali resistant tiles of ap and / or alkali resisting mortar bedding, and joints filled with acid and /or 4457, complete as per the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the start of the direction of Engineer-in-Charge.In flooring or fully the directi	Rs 1120.86 nd exteriors using primer as p urface Paint to give an even shad rimer applied @ 0.80 ltr/10 sqm 18.000 sqm Rs 2783.16 1500.000 Letterxcm ht Rs 8700.00 proved make and colour using ac or alkali resisting cement as per 18 on a bed of 10 mm thick mortar 1

25	11.22.1.1	
	Tile work in skirting, risers of steps and dado upto 2 m height, over 12 mm	
	(1 cement : 3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/	
	cement mixed with pigment of matching shade complete.Marble tiles ( po	lished) Raj Nagar8 mm thick
	Net Total Quantity 5.4	180 sqm
	Say 5.480 sqm @ Rs 1523.00 / sqm	Rs 8346.04
26	od173455/2020_2021	
	Providing and fixing MS hook of 22mm dia, bend to shape in RCC slab (	ceiling of control room) or bea
	as per standards including painting the exposed portion	
	Net Total Quantity 12.	.000 No
	Say 12.000 No @ Rs 301.61 / No	Rs 3619.32
27	10.16.2	
	Steel work in built up tubular (round, square or rectangular hollow tub	es etc.) trusses etc., includi
	cutting, hoisting, fixing position and applying a priming coat of approved	
	and bolted with special shaped washers etc. complete.Hot finished sean	
	Net Total Quantity 123	3.241 kg
	Sou 122 241 kg @ Do 102 47 /kg	Rs 23843.44
<b>ivil w</b> o	Say 123.241 kg @ Rs 193.47 / kg ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood	site Alady and approach roa st Index:41.53 %)
	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth
	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of
	ork (b)Construction of Electrical Control room at water treatment plant s         work.(2).Construction of concrete road and retaining wall.       (Cos         2.31         Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared       Net Total Quantity 30.	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm
1	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of
	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90
1	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator)	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90
1	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90
1	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavator	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90
1	ork (b)Construction of Electrical Control room at water treatment plant a work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uproofing of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal of m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavator excavated soil as directed, within a lead of 50 m.All kinds of soil	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth if rubbish up to a distance of .000 sqm Rs 462.90 /manual means in foundation ncluding dressing of sides a ed soil and disposal of surpl
1	ork (b)Construction of Electrical Control room at water treatment plant a work.(2).Construction of concrete road and retaining wall. (Cost 2.31         Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared         Net Total Quantity       30.         Say 30.000 sqm @ Rs 15.43 / sqm         2.8.1         Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil         Net Total Quantity       36.	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm <b>Rs 462.90</b> /manual means in foundati ncluding dressing of sides a ed soil and disposal of surpl .000 cum
2	ork (b)Construction of Electrical Control room at water treatment plant a work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil Net Total Quantity 36. Say 36.000 cum @ Rs 309.95 / cum	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth if rubbish up to a distance of .000 sqm Rs 462.90 /manual means in foundation ncluding dressing of sides a ed soil and disposal of surpl
1	ork (b)Construction of Electrical Control room at water treatment plant s work.(2).Construction of concrete road and retaining wall. (Cos 2.31 Clearing jungle including uproofing of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared Net Total Quantity 30. Say 30.000 sqm @ Rs 15.43 / sqm 2.8.1 Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil Net Total Quantity 36. Say 36.000 cum @ Rs 309.95 / cum	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90 /manual means in foundati ncluding dressing of sides a ed soil and disposal of surpl .000 cum Rs 11158.20
2	ork (b)Construction of Electrical Control room at water treatment plant is work.(2).Construction of concrete road and retaining wall. (Cost 2.31         Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal or m outside the periphery of the area cleared         Net Total Quantity 30.         Say 30.000 sqm @ Rs 15.43 / sqm         2.8.1         Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), it ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil         Net Total Quantity 36.         Say 36.000 cum @ Rs 309.95 / cum         4.1.5         Providing and laying in position cement concrete of specified grade excl	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm <b>Rs 462.90</b> d /manual means in foundati ncluding dressing of sides a ed soil and disposal of surpl .000 cum <b>Rs 11158.20</b> uding the cost of centering a
2	ork (b)Construction of Electrical Control room at water treatment plant is work.(2).Construction of concrete road and retaining wall. (Cost 2.31         Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal or moutside the periphery of the area cleared         Net Total Quantity         2.8.1         Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil         Net Total Quantity         36.000 cum @ Rs 309.95 / cum         4.1.5         Providing and laying in position cement concrete of specified grade excl shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6	site Alady and approach roa at Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm <b>Rs 462.90</b> d /manual means in foundati ncluding dressing of sides a ed soil and disposal of surpl .000 cum <b>Rs 11158.20</b> uding the cost of centering a
2	ork (b)Construction of Electrical Control room at water treatment plant a work.(2).Construction of concrete road and retaining wall. (Cost 2.31         Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal o m outside the periphery of the area cleared         Net Total Quantity 30.         Say 30.000 sqm @ Rs 15.43 / sqm         2.8.1         Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), it ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil         Net Total Quantity 36.         Say 36.000 cum @ Rs 309.95 / cum         4.1.5         Providing and laying in position cement concrete of specified grade excl shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 nominal size)	site Alady and approach roa st Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90 f /manual means in foundati ncluding dressing of sides a ed soil and disposal of surpl .000 cum Rs 11158.20 uding the cost of centering a graded stone aggregate 20 m
2	ork (b)Construction of Electrical Control room at water treatment plant is work.(2).Construction of concrete road and retaining wall. (Cost 2.31         Clearing jungle including uprooting of rank vegetation, grass, brush wood to 30 cm measured at a height of 1 m above ground level and removal or moutside the periphery of the area cleared         Net Total Quantity         2.8.1         Earth work in excavation by mechanical means (Hydraulic excavator) trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), in ramming of bottoms, lift up to 1.5 m, including getting out the excavate excavated soil as directed, within a lead of 50 m.All kinds of soil         Net Total Quantity         36.000 cum @ Rs 309.95 / cum         4.1.5         Providing and laying in position cement concrete of specified grade excl shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6	site Alady and approach roa st Index:41.53 %) d, trees and saplings of girth of rubbish up to a distance of .000 sqm Rs 462.90 f /manual means in foundati ncluding dressing of sides a ed soil and disposal of surpl .000 cum Rs 11158.20 uding the cost of centering a graded stone aggregate 20 m

4	7.1.1	aduding lovalling up with some
	Random rubble masonry with hard stone in foundation and plinth in	<b>e e</b> i
	concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregat	e zo min nominal size) up to pili
	level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	
	Net Total Quantity	36.800 cum
	Say 36.800 cum @ Rs 7520.41 / cum	Rs 276751.09
5	<ul> <li>5.2.2</li> <li>Reinforced cement concrete work in walls (any thickness), including at and string courses, fillets, columns, pillars, piers, abutments, posts a excluding cost of centering, shuttering, finishing and reinforcement :1:</li> <li>3 graded stone aggregate 20 mm nominal size)</li> </ul>	nd struts etc. up tot floor five lev
	Net Total Quantity	4.201 cum
	Say 4.201 cum @ Rs 11433.93 / cum	Rs 48033.94
6	2.2.1	
	breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes ar	nd dressing up in embankments
	roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil	und depressions, lead up to 50
	and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 500.000 cum @ Rs 917.54 / cum	
7	and lift up to 1.5 m:All kinds of soil Net Total Quantity	500.000 cum Rs 458770.00
7	and lift up to 1.5 m:All kinds of soil           Net Total Quantity           Say 500.000 cum @ Rs 917.54 / cum           od165801/2020_2021           Dry rubble masonry with hard stone in foundation and plinth including           1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 m with:	500.000 cum Rs 458770.00 g leveling up with cement concre nm nominal size) up to plinth lev
7	and lift up to 1.5 m:All kinds of soil  Net Total Quantity Say 500.000 cum @ Rs 917.54 / cum  od165801/2020_2021 Dry rubble masonry with hard stone in foundation and plinth including 1:6:12 ( 1 cement : 6 coarse sand : 12 graded stone aggregate 20 m with:  Net Total Quantity	500.000 cum Rs 458770.00 g leveling up with cement concre nm nominal size) up to plinth lev 500.000 cum
8	and lift up to 1.5 m:All kinds of soil           Net Total Quantity           Say 500.000 cum @ Rs 917.54 / cum           od165801/2020_2021           Dry rubble masonry with hard stone in foundation and plinth including           1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 m with:	500.000 cum Rs 458770.00 g leveling up with cement concre m nominal size) up to plinth lev 500.000 cum Rs 2478595.00 nt concrete, excluding the cost
	and lift up to 1.5 m:All kinds of soil         Net Total Quantity         Say 500.000 cum @ Rs 917.54 / cum         od165801/2020_2021         Dry rubble masonry with hard stone in foundation and plinth including         1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 m         with:         Net Total Quantity         Say 500.000 cum @ Rs 4957.19 / cum         5.1.3         Providing and laying in position specified grade of reinforced cemer         sand : 4 graded stone aggregate 20 mm nominal size)	500.000 cum Rs 458770.00 I leveling up with cement concre m nominal size) up to plinth lev 500.000 cum Rs 2478595.00 nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coar
	and lift up to 1.5 m:All kinds of soil  Net Total Quantity Say 500.000 cum @ Rs 917.54 / cum od165801/2020_2021 Dry rubble masonry with hard stone in foundation and plinth including 1:6:12 ( 1 cement : 6 coarse sand : 12 graded stone aggregate 20 m with: Net Total Quantity Say 500.000 cum @ Rs 4957.19 / cum 5.1.3 Providing and laying in position specified grade of reinforced cemen centering, shuttering, finishing and reinforcement - All work up to plint sand : 4 graded stone aggregate 20 mm nominal size) Net Total Quantity	500.000 cum Rs 458770.00 I leveling up with cement concre m nominal size) up to plinth lev 500.000 cum Rs 2478595.00 nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coar 250.000 cum
	and lift up to 1.5 m:All kinds of soil         Net Total Quantity         Say 500.000 cum @ Rs 917.54 / cum         od165801/2020_2021         Dry rubble masonry with hard stone in foundation and plinth including         1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 m         with:         Net Total Quantity         Say 500.000 cum @ Rs 4957.19 / cum         5.1.3         Providing and laying in position specified grade of reinforced cemer         sand : 4 graded stone aggregate 20 mm nominal size)	500.000 cum Rs 458770.00 a leveling up with cement concre m nominal size) up to plinth level 500.000 cum Rs 2478595.00 nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coar 250.000 cum Rs 2241180.00
8	and lift up to 1.5 m:All kinds of soil         Net Total Quantity         Say 500.000 cum @ Rs 917.54 / cum         od165801/2020_2021         Dry rubble masonry with hard stone in foundation and plinth including         1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 m         with:         Net Total Quantity         Say 500.000 cum @ Rs 4957.19 / cum         5.1.3         Providing and laying in position specified grade of reinforced cemer         centering, shuttering, finishing and reinforcement - All work up to plint         sand : 4 graded stone aggregate 20 mm nominal size)         Net Total Quantity         Say 250.000 cum @ Rs 8964.72 / cum         5.9.1         Centering and shuttering including strutting, etc. and removal of form form	500.000 cum Rs 458770.00 a leveling up with cement concre m nominal size) up to plinth lev 500.000 cum Rs 2478595.00 nt concrete, excluding the cost h level:1:2:4 ( 1 cement : 2 coar 250.000 cum Rs 2241180.00 for:Foundations, footings, bases

10	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting binding all complete upto plinth levelThermo - Mechanically Treate	• • • •
	Net Total Quantity	15420.001 kilogram
	Say 15420.001 kilogram @ Rs 102.61 / kilogram	Rs 1582246.30
	52- Electromechanical works (Cost Index:41.5	53 %)
	No Specifications added under this Estimate	
62(a)- Su	pply, erection, testing and commissioning of 400 KVA Transformer compound- (1)- 11 KV substation and HT equipments (Co	and allied works at Alady plant st Index:41.53 %)
1	od194695/2018_2019 Erection of RCC/ PCC pole of following length in brick ballast and ram 150 mm thick cement concrete (1:3:6) layer on top with including exca	•
	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 1 structure having four members fabricated out of 50 mm X 50 mm X 6 of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts with primer and finish paint as required.	mm angle iron to form a rectangle ) mm X 6mm M.S. flat iron clamps,
	Kerala Water Net Total Quantity	1.000 set
	Say 1.000 set @ Rs 6552.00 / set	
3	od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over h	head lines as required.
	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 stee as required.	el head G.I. pin, nuts, washers etc.
	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 overhead lines with rated voltage 9 kV (rms) with a nominal discharge with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as	current rating of 5 kA and complete
	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 HT Breaker Panel with the following components. 11kV Load Break 3 unit - 1 set Voltmeter (0 - 11kV) - 3 Nos LED Pilot Indication - LBS OF 1 set 2NO+2NC Aux contacts - 1 Set 230V AC Shunt Trip Coil - 1 No Bushings - 3 Nos Space Heater Element with Thermostat & wiring - switch & wiring - 1 set Metering Chamber PT - 100 VA, 11kV/110V, C 0.2S - 3 Nos Provisions for mounting 3 phase, 4wire, HT CT/PT opera accuracy class 0.2S including wiring and test terminal block, site gla active & apparent power consumption of voltage circuit including po voltage, reference temperature & frequency shall not exceed 1.0 V Circuit: The apparent power taken by current circuit at basic current temperature shall not exceed 1.0 VA/phase.( The Quoted rate shall wiring,components working on LT supply should be prewired comp specified till the connection point for feeding LT Supply from outs incoming and outgoing cables and suitable civil foundation etc as	Swich 11kV, 350 MVA, 630A, LBS N / OFF - 1 Set Trip Push buttons - Aluminium Busbar - 1 Set Seal off 1 Nos Inspection Lamp LED with L 0.2S - 1 No CT - */5A, 15VA, CL ated, bi- directional TOD meter with ss etc 1 set Voltage Circuit: The ower supply of meter at reference Watt & 4.0 VA per phase Current c, reference frequency & reference be inclusive of necessary control oletely with necessary controls as side, Cable end box for receiving
	Net Total Quantity	1.000 set
	Say 1.000 set @ Rs 215359.00 / set	Rs 215359.00
7	od194701/2018_2019 HT Bidirectional TOD Meter Supply & Providing 3 phase, 4wire, HT 0 accuracy class 0.2S for both Active and Reactive energy, -/5A, HT register, DLMS compliant & AMR compatible with optical port and suitable for measurement of active kWh, reactive energy kVARh an MD, kW MD at nominal frequency in the range of 47.5 Hz to 52.5 Hz load conditions in the existing outdoor Meter cubicle including testing Net Total Quantity	T static tri vector meter with TOD RS232 port having ISI Marking, d apparent energy kVAh and kVA in balanced as well as unbalanced & commissioning etc. complete.
	Say 1.000 set @ Rs 43954.00 / set	Rs 43954.00
8	od194702/2018_2019 HT Equipment Pinth, Substation Yard Fencing & Levelling- Providin chainlink fencing over 4mm thick barbed wire with a framework of 50x5 posts of ISMC 75 at 2400mm interval, Earthing as per KSEI/KSEB si periphery of the fencing. The MS framework for chainlink fencing sha shall be inclusive of all materials, labour, lead, lift etc including esc assembly works including all nuts, bolts and other miscallaneous item as directed by the Engineer in Charge.	50x6mm MS angle between vertical tandards shall be done around the Ill be Hot Dip Galvanised. The rate calation works and fabrication and
	Net Total Quantity	20.000 metre
	Say 20.000 metre @ Rs 1298.00 / metre	Rs 25960.00
9	od194703/2018_2019 Supplying and filling the substation yard with 40mm size blue jelly of conveyance of all materials, labour charges etc complete	of 150mm thick including cost and
	Net Total Quantity	5.000 cum

	Say 5.000 cum @ Rs 3017.00 / cum	Rs 15085.00
10	7.1.1 Random rubble masonry with hard stone in foundation and plinth inc concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	
	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 3Ph, 50Hz, 11/0.433 kV,ONAN cooled, copper wound outdoor distributio +5% to -10% in steps of 2.5% with OFTC. The HT side & LT side sha cable. The transformer shall have suitable enclosure for The HT side & I complete with all standard accessories and fittings & conform to IS:2026 materials, lead,lift, first fill of oil, necessary civil works for mounting to the complete as per single line schematic diagram & particular specification	on transformer with tappings from all have cable end box for XLP LT side. The transformer shall b b. The rate shall be inclusive of a e existing transformer foundation
	Net Total Quantity 1	
	Say 1.000 set @ Rs 631587.00 / set	Rs 631587.00
1	od201682/2018_2019 PCC PANEL - Supply, fabrication, erection, testing and commi compartmentalised, dust tight, vermin proof, water proof 800A LT- Main I fabricated out of 16 SWG CRCA Sheet Steel painted as per standa	MV Panel falling to IP54 catego rds with Alumimium Busbars o
1	od201682/2018_2019 PCC PANEL - Supply, fabrication, erection, testing and commi compartmentalised, dust tight, vermin proof, water proof 800A LT- Main I	ssioning of cubicle type full MV Panel falling to IP54 categor rds with Alumimium Busbars of on to all switches, internal rigi with water proof shrouding, fre es shall confirm to conforming to D ACB (35kA) - 1 Nos. Restricted usbar with SMC supports, hea
1	od201682/2018_2019 PCC PANEL - Supply, fabrication, erection, testing and commi compartmentalised, dust tight, vermin proof, water proof 800A LT- Main I fabricated out of 16 SWG CRCA Sheet Steel painted as per standa suitable size, earth bus of adequate capacity, double earth connecti connection etc. including suitable chambers, front open, top cable entry standing panel consisting of the following as per standards ( All switche IEC 60947-2 standards). Incommer 800A FP Microprocessor based MDC Earth Fault Relay - 1 Set 800A TPN best conductivity Aluminium bus shrinkable sleeves etc. as per ISS - 1set RYB indicators ( LED Pilot to toggle switches - 4 Set Multifunction Digital Panel meter to read V, A, F, kVARh Class 1.0 - 1 Set 800/5A CL 1.0, 15VA Metering CTs - 1 Set Ou 2 Nos. 200A FP SDFU (100kA) - 2 Nos. 63A FP SDFU (100kA) - 1 Nos. surge arrester with potential free contact, thermal disconnector & prov indication for defective arresters to connect between Line and Neutral a	ssioning of cubicle type full MV Panel falling to IP54 categor rds with Alumimium Busbars of on to all switches, internal rigi with water proof shrouding, fre es shall confirm to conforming to D ACB (35kA) - 1 Nos. Restricter usbar with SMC supports, hea type ) with 2A Control MCB an PF, kW, kVA, kVAR, kWh, kVA atgoings: 630A, 35kA 4P MCCB Surge Protection Pluggable typ vision for inbuilt common remote and one number Spark Gap typ
1	od201682/2018_2019 PCC PANEL - Supply, fabrication, erection, testing and commi compartmentalised, dust tight, vermin proof, water proof 800A LT- Main I fabricated out of 16 SWG CRCA Sheet Steel painted as per standa suitable size, earth bus of adequate capacity, double earth connecti connection etc. including suitable chambers, front open, top cable entry standing panel consisting of the following as per standards ( All switche IEC 60947-2 standards). Incommer 800A FP Microprocessor based MDC Earth Fault Relay - 1 Set 800A TPN best conductivity Aluminium bus shrinkable sleeves etc. as per ISS - 1set RYB indicators ( LED Pilot to toggle switches - 4 Set Multifunction Digital Panel meter to read V, A, F, kVARh Class 1.0 - 1 Set 800/5A CL 1.0, 15VA Metering CTs - 1 Set Ou 2 Nos. 200A FP SDFU (100kA) - 2 Nos. 63A FP SDFU (100kA) - 1 Nos. surge arrester with potential free contact, thermal disconnector & prov	ssioning of cubicle type ful MV Panel falling to IP54 catego rds with Alumimium Busbars on to all switches, internal rig with water proof shrouding, fre es shall confirm to conforming D ACB (35kA) - 1 Nos. Restricte usbar with SMC supports, he type ) with 2A Control MCB an PF, kW, kVA, kVAR, kWh, kVA atgoings: 630A, 35kA 4P MCCE Surge Protection Pluggable typ vision for inbuilt common remo and one number Spark Gap typ uding base element & pluggab A (8/20 sec) for Line to Neutral 50 kA (8/20 sec) -1Set Support of MS Flats / Angles etc. painter t. The framework shall be firm Board shall be provided with 25 ns for the incoming and outgoin

	Net Total Quantity	1.000 set
	Say 1.000 set @ Rs 294498.00 / set	Rs 294498.00
2	od194956/2018_2019 WTP - MCC PANEL- Supply, fabrication, erection, testing and co compartmentalised, dust tight, vermin proof, water proof 200A M fabricated out of 16 SWG CRCA Sheet Steel painted as per stand suitable size, earth bus of adequate capacity, double earth connect connection etc. including suitable chambers, front open, top cable ent standing panel consisting of the following as per standards ( All switc IEC 60947-2 standards). Incoming : 200A TPN Isolator - 1 No. 200A busbar with SMC supports, heat shrinkable sleeves etc. as per ISS meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class Pilot type ) with 2A Control MCB and toggle switches - 1 Set 200/5A C Outgoings: 100A TPN SDFU (100kA) - 3 Nos. 32A TP D curve MCE MCB (10kA) - 3 Nos. 10A TP D curve MCB (10kA) - 4 Nos. Support ground using framework fabricated out of MS Flats / Angles etc. paintee primer and two coats of enamel paint. The framework shall be firmly s cement concrete plinth. The Panel Board shall be provided with 25 x length. Painting letters / identifications for the incoming and outgoing s white enamel paint. The board shall be fabricated in such a way th Supply & Labour	V Panel falling to IP54 categor dards with Alumimium Busbars of ction to all switches, internal rigi- try with water proof shrouding, fre- ches shall confirm to conforming to a TPN best conductivity Aluminium - 1set Multifunction Digital Panel s 1.0 - 1 Set RYB indicators ( LE CL 1.0, 15VA Metering CTs - 1 Set 3 (10kA) - 6 Nos. 25A TP D curv is The panel shall be supported to ed with two coats of Zinc Chromat supported to ground using suitable 3mm copper earth bus for the fu- switches, cable, fuse sizes, etc., i
	Net Total Quantity	1.000 set
	Cen Say 1.000 set @ Rs 84484.00 / set	Rs 84484.00
	PRICE	KS 84484.00

3	od194957/2018_2019 APFC PANEL -Automatic Power Factor Correction Panel of total 40 KVAR capacity with Auto / Mannual 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 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 , 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, kVAR, kVAR 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 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 wited 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. The framework shall be firmly supported to ground using suitable commet concrete plinth.
	sizes, etc., in white enamel paint. Supply & Labour
	Net Total Quantity 1.000 set
	Say 1.000 set @ Rs 119898.00 / set Rs 119898.00
	oply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant oound- (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
	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

	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 Isolat MCS / Junction Boxes etc. including giving proper termination usir sleeves, insulation etc. complete. 63A, 4P MCB Isolator	-
	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 Isolat MCS / Junction Boxes etc. including giving proper termination usin sleeves, insulation etc. complete. 6A to 32A, 10kA SP MCB	•
	Net Total Quantity	36.000 No
	Say 36.000 No @ Rs 181.00 / No	Rs 6516.00
	HT Power Cables - Supply & laying 11KV stranded compact circular	
	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k, sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm	insulation screened with extrude A for 1 sec.), cores laid up, inne VC sheathed cable of the followin with latest amendments. 3C x 30
	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985	insulation screened with extrude A for 1 sec.), cores laid up, inne VC sheathed cable of the followin with latest amendments. 3C x 30
	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k, sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm	insulation screened with extrude A for 1 sec.), cores laid up, inne VC sheathed cable of the followin with latest amendments. 3C x 30
2	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to JS: 7098 part II 1985 Sqm Net Total Quantity	insulation screened with extrude A for 1 sec.), cores laid up, inne VC sheathed cable of the followin with latest amendments. 3C x 30 25.000 metre Rs 57025.00 aluminium conductor, conductor insulation screened with extrude A for 1 sec.), cores laid up, inne VC sheathed cable of the followin
2	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to JS: 7098 part II 1985 Sqm Net Total Quantity Say 25.000 metre @ Rs 2281.00 / metre od195886/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985	insulation screened with extrude A for 1 sec.), cores laid up, innev VC sheathed cable of the followin with latest amendments. 3C x 30 25.000 metre <b>Rs 57025.00</b> aluminium conductor, conductor insulation screened with extrude A for 1 sec.), cores laid up, innev VC sheathed cable of the followin with latest amendments.3C x 15
2	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm Net Total Quantity Say 25.000 metre @ Rs 2281.00 / metre od195886/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm	insulation screened with extrude A for 1 sec.), cores laid up, innev VC sheathed cable of the followin with latest amendments. 3C x 30 25.000 metre <b>Rs 57025.00</b> aluminium conductor, conductor insulation screened with extrude A for 1 sec.), cores laid up, innev VC sheathed cable of the followin with latest amendments.3C x 15
2	screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm Net Total Quantity Say 25.000 metre @ Rs 2281.00 / metre od195886/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm	insulation screened with extrude A for 1 sec.), cores laid up, inner VC sheathed cable of the followin with latest amendments. 3C x 30 25.000 metre <b>Rs 57025.00</b> aluminium conductor, conductor insulation screened with extrude A for 1 sec.), cores laid up, inner VC sheathed cable of the followin with latest amendments.3C x 15 25.000 metre <b>Rs 57950.00</b> nation with heat shrinkable jointin

	Say 1.000 set @ Rs 7664.00 / set	Rs 7664.00
4	od195981/2018_2019 HT Cable Terminations Supplying and making indoor cable end termi kit, including lugs and other jointing materials, for following sizes, XLP KV grade as required. 3C x 300 Sqmm	•
	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 joint including lugs and other jointing materials, for for following sizes, XLP KV grade as required. 3C x 150 Sqmm	• • •
	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 jo kit, including lugs and other jointing materials, for for following sizes, X 11 KV grade as required. 3C x 300 Sqmm	
	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 PV armoured power cable of 1.1 KV grade of following sizes through tren	/C sheathed Aluminium conducto ich/wall/ ceiling. 3.5C x 185 Sqmi
7	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity	/C sheathed Aluminium conducto nch/wall/ ceiling. 3.5C x 185 Sqmi 120.000 metre
8	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren	/C sheathed Aluminium conducto ich/wall/ ceiling. 3.5C x 185 Sqmi 120.000 metre Rs 210240.00 C sheathed Aluminium conducto
	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity Say 120.000 metre @ Rs 1752.00 / metre od195890/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV	/C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 185 Sqmi 120.000 metre <b>Rs 210240.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 150 Sqmi
	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity Say 120.000 metre @ Rs 1752.00 / metre od195890/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren	/C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 185 Sqmi 120.000 metre <b>Rs 210240.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 150 Sqmi
	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity Say 120.000 metre @ Rs 1752.00 / metre od195890/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity	/C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 185 Sqm 120.000 metre <b>Rs 210240.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 150 Sqm 60.000 metre <b>Rs 74460.00</b> C sheathed Aluminium conductor
8	od195889/2018_2019         LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tree         Net Total Quantity         Say 120.000 metre @ Rs 1752.00 / metre         od195890/2018_2019         LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tree         Net Total Quantity         Say 60.000 metre @ Rs 1241.00 / metre         od195891/2018_2019         LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tree         Od195891/2018_2019         LT Power Cables Supply & laying UG AYFY,PVC insulated and PV	/C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 185 Sqmi 120.000 metre <b>Rs 210240.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 150 Sqmi 60.000 metre <b>Rs 74460.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 50 Sqmi
8	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity Say 120.000 metre @ Rs 1752.00 / metre od195890/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren Net Total Quantity Say 60.000 metre @ Rs 1241.00 / metre od195891/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tren	/C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 185 Sqm 120.000 metre <b>Rs 210240.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 150 Sqm 60.000 metre <b>Rs 74460.00</b> C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 50 Sqm
8	od195889/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tree Net Total Quantity Say 120.000 metre @ Rs 1752.00 / metre od195890/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tree Net Total Quantity Say 60.000 metre @ Rs 1241.00 / metre od195891/2018_2019 LT Power Cables Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tree Net Total Quantity Net Total Quantity Armoured power cable of 1.1 KV grade of following sizes through tree Net Total Quantity Net Total Quantity	/C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 185 Sqm 120.000 metre Rs 210240.00 C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 150 Sqm 60.000 metre Rs 74460.00 C sheathed Aluminium conductor ich/wall/ ceiling. 3.5C x 50 Sqm 30.000 metre Rs 16170.00 C sheathed Aluminium conductor

	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 PV armoured power cable of 1.1 KV grade of following sizes through tree	
	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 PV armoured power cable of 1.1 KV grade of following sizes through tre	
	Net Total Quantity	75.000 metre
	Say 75.000 metre @ Rs 216.00 / metre	Rs 16200.00
13	od195895/2018_2019 LT Power Cables - Supply & laying UG AYFY,PVC insulated and PV armoured power cable of 1.1 KV grade of following sizes through tre	
	Net Total Quantity	105.000 metre
	Say 105.000 metre @ Rs 179.00 / metre	Rs 18795.00
	armoured Power / Control cable of 1.1 KV grade of the following sizes 2.5 Sqmm Kerala Water Authority Net Total Quantity	
	0 m = 50 000 m = tra @ D= 205 00 / m = tra	
15	Say 50.000 metre @ Rs 305.00 / metre	Rs 15250.00
	od195897/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp	termination of UG cables of t
	od195897/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end	termination of UG cables of the
	od195897/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp	d termination of UG cables of the per lugs etc. complete- 3.5C x 1
	od195897/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (57mm)	d termination of UG cables of the termination of UG cables of termination of termination of UG cables of termination of termi
16	od195897/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (57mm) Net Total Quantity	d termination of UG cables of the per lugs etc. complete- 3.5C x 13 6.000 No Rs 7470.00
16	od195897/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (57mm)         Net Total Quantity         Say 6.000 No @ Rs 1245.00 / No         od195898/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp	d termination of UG cables of the ber lugs etc. complete- 3.5C x 1 6.000 No <b>Rs 7470.00</b> d termination of UG cables of the ber lugs etc. complete- 3.5C x 1
16	od195897/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (57mm) Net Total Quantity Say 6.000 No @ Rs 1245.00 / No od195898/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (50mm)	d termination of UG cables of the ber lugs etc. complete- 3.5C x 18 6.000 No <b>Rs 7470.00</b> d termination of UG cables of the ber lugs etc. complete- 3.5C x 18

	Net Total Quantity	4.000 No
	Say 4.000 No @ Rs 548.00 / No	Rs 2192.00
18	od195900/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Cop Sqmm (32mm)	
	Net Total Quantity	4.000 No
	Say 4.000 No @ Rs 437.00 / No	Rs 1748.00
19	od195901/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Cop Sqmm (28mm)	
	Net Total Quantity	4.000 No
	Say 4.000 No @ Rs 398.00 / No	Rs 1592.00
20	od195902/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Coppe (22mm)	
	Net Total Quantity	10.000 No
	Value	
21	Say 10.000 No @ Rs 266.00 / No od195903/2018 2019	Rs 2660.00
21		d termination of UG cables of th
21	od195903/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Coppe	d termination of UG cables of th r lugs etc. complete - 4C x 4 sqm
21	od195903/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Coppe (22mm)	d termination of UG cables of th r lugs etc. complete - 4C x 4 sqm 14.000 No
21	od195903/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Coppe (22mm) Net Total Quantity	d termination of UG cables of th r lugs etc. complete - 4C x 4 sqm 14.000 No <b>Rs 3150.00</b> d termination of UG cables of th
	Kerala Water Authority         od195903/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copper         (22mm)         Net Total Quantity         Say 14.000 No @ Rs 225.00 / No         od195904/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copper	d termination of UG cables of th r lugs etc. complete - 4C x 4 sqm 14.000 No <b>Rs 3150.00</b> d termination of UG cables of th oper lugs etc. complete - 4C x 2
	Kerala Water Authority         od195903/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copper (22mm)         Net Total Quantity         Say 14.000 No @ Rs 225.00 / No         od195904/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Cop         Sqmm	d termination of UG cables of the r lugs etc. complete - 4C x 4 sqm 14.000 No <b>Rs 3150.00</b> d termination of UG cables of the oper lugs etc. complete - 4C x 2 2.000 No
	Kerala Water Authority         od195903/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copper (22mm)         Net Total Quantity         Say 14.000 No @ Rs 225.00 / No         od195904/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Cop         Sqmm         Net Total Quantity	d termination of UG cables of the r lugs etc. complete - 4C x 4 sqm 14.000 No Rs 3150.00 d termination of UG cables of the oper lugs etc. complete - 4C x 2 2.000 No Rs 422.00 ulti-core PVC Insulated and PV ht annealed bare copper conduct /C compound as per IS 5831/198

	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 Mu sheathed Copper conductor round flexible wire manufactured with brig as per IS 8130/1984 Insulated and sheathed with electrical grade PV generally conforming to IS 694/1990 for working voltage up to and incl conduit / casing capping wall. 3C x 1.5 Sqmm	ht annealed bare copper conducto 'C compound as per IS 5831/198
	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 Marke confirming to IS 9537/1983 on surface / concealed position m etc.complete.20mm dia, 1.5mm thick	<b>e</b> 1
	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 Marke confirming to IS 9537/1983 on surface concealed position ma etc.complete.25mm dia, 1.5mm thick	aking good the damages mad
	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 Marke confirming to IS 9537/1983 on surface concealed position making goo 32mm dia 1.5mm thick	
	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
	Net Total Quantity	100.000 metre
	Say 100.000 metre @ Rs 43.00 / metre	Rs 4300.00
29	od195911/2018_2019 PVC Conduits- Supply & providing Capping / Casing of good quality of	
	Net Total Quantity	
	Say 100.000 metre @ Rs 49.00 / metre	Rs 4900.00
30	od195912/2018_2019 UG Cable Tamper Protection- Supply & laying the following size of B	

	Net Total Quantity 1	0.000 metre
	Say 10.000 metre @ Rs 379.00 / metre	Rs 3790.00
31	od195913/2018_2019 UG Cable Tamper Protection- Supply & laying the following size of B cla protection in the existing trench in position etc. complete. 75 mm	ass GI Pipe for UG Cable tampe
	Net Total Quantity 1	0.000 metre
	Say 10.000 metre @ Rs 485.00 / metre	Rs 4850.00
32	od195914/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copp annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate	insulated with di-electrical grad 990 for working voltage up to an
	Net Total Quantity 1	00.000 metre
	Say 100.000 metre @ Rs 199.00 / metre	Rs 19900.00
22	od105015/2018 2010	
33	od195915/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copp annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate. Kerala Water Authority Net Total Quantity 2	insulated with di-electrical grad 990 for working voltage up to an run x 2.5 Sqmm - SPN + E - rat
33	Circuit Mains- Supply and wiring the following size of PVC insulated cop annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate.	insulated with di-electrical grad 990 for working voltage up to an run x 2.5 Sqmm - SPN + E - rat
33 34	Circuit Mains- Supply and wiring the following size of PVC insulated cop annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate. Kerala Water Authority Net Total Quantity 2	insulated with di-electrical grad 990 for working voltage up to an run x 2.5 Sqmm - SPN + E - rat 00.000 metre <b>Rs 30800.00</b> per wire manufactured with bright insulated with di-electrical grad 990 for working voltage up to an
	Circuit Mains- Supply and wiring the following size of PVC insulated cope annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate. Kerala Water Authority Net Total Quantity 2 Say 200.000 metre @ Rs 154.00 / metre od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated cope annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19	insulated with di-electrical grad 990 for working voltage up to an run x 2.5 Sqmm - SPN + E - rat 00.000 metre <b>Rs 30800.00</b> per wire manufactured with bright insulated with di-electrical grad 990 for working voltage up to an run x 1.5 sqmm - SPN + E
	Circuit Mains- Supply and wiring the following size of PVC insulated cope annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate. Net Total Quantity 2 Say 200.000 metre @ Rs 154.00 / metre od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated cope annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3	insulated with di-electrical grad 290 for working voltage up to an run x 2.5 Sqmm - SPN + E - rat 00.000 metre <b>Rs 30800.00</b> per wire manufactured with brigh insulated with di-electrical grad 290 for working voltage up to an run x 1.5 sqmm - SPN + E
	Circuit Mains- Supply and wiring the following size of PVC insulated cope annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate. Net Total Quantity 2 Say 200.000 metre @ Rs 154.00 / metre od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated cope annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 Net Total Quantity 3	insulated with di-electrical grad 290 for working voltage up to an run x 2.5 Sqmm - SPN + E - rat 00.000 metre <b>Rs 30800.00</b> per wire manufactured with bright insulated with di-electrical grad 290 for working voltage up to an run x 1.5 sqmm - SPN + E 50.000 metre <b>Rs 41300.00</b> ble supports fabricated out of M cing between successive cross m spacing. The cable trays an
34	Circuit Mains- Supply and wiring the following size of PVC insulated cop annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 as per vetted estimate. Net Total Quantity 2 Say 200.000 metre @ Rs 154.00 / metre od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated cop annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/19 including 1100 V.through the existing PVC conduits / capping casing. 3 Net Total Quantity 3 Say 350.000 metre @ Rs 118.00 / metre od195917/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cal angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spar members and supported using 25cm long 32x6mm MS flat at every 1	insulated with di-electrical grad 390 for working voltage up to ar run x 2.5 Sqmm - SPN + E - rad 00.000 metre <b>Rs 30800.00</b> per wire manufactured with brig insulated with di-electrical grad 390 for working voltage up to ar run x 1.5 sqmm - SPN + E 50.000 metre <b>Rs 41300.00</b> ble supports fabricated out of M cing between successive cross m spacing. The cable trays ar d two coats of enamel paint.

36	od195918/2018_2019 Cable Supports & Trenching- Supply and providing 6mm MS chec including cutting, welding, painting etc. as required for the cable t	
	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 country burnt bricks breadth wise above the cable, providing sand restoring normal surface etc.complete as per standards of the followin ( HT Cables )	cushioning of 150mm refilling &
	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 country burnt bricks breadth wise above the cable, providing sand restoring normal surface etc.complete as per standards of the followin LT Cables )	cushioning of 150mm refilling &
	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 ( there on bolted / welded to 35x35x6mm angle iron 60cm long and fixin Net Total Quantity	ng the same in ground as required.
	Say 50.000 No @ Rs 516.00 / No	Rs 25800.00
40	od195922/2018_2019 Cable Supports & Trenching - Supply route marker with 10cmx10cm ( there on bolted / welded to 35x35x6mm angle iron 60cm long and fixin Net Total Quantity	ng the same in ground as required.
	Say 25.000 No @ Rs 417.00 / No	Rs 10425.00
102(a)- Su	pply, erection, testing and commissioning of 400 KVA Transforme	
1	od196108/2018_2019 Supply and providing plate earthing as per IS 3043 with 1200x1200x1 watering pipe fixed to the earth plate with 25 x 3mm GI clamps, GI fur quantity of charcoal including construction of inspection chamber with 40 mm broken stone (10 cm thick), brick work in cement mortar 1 masonry and the exposed surface of PCC bed with cement mortar 1:- dimension shall be 450 x 450 x 450 mm) but excluding test joint, eart and covering at the top.	a bed concrete of 1:4:8 PCC using 6, plastering the surface of brick 4, 12 mm thick, (the finished inside

		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 n	nm dia B class GI pipe, GI funn
	with weld mesh, filling required quantit	y of charcoal & salt including co	nstruction of inspection chamb
	with a bed concrete of 1:4:8 PCC usin	-	,
	1:6, plastering the surface of brick mas	•	
	12 mm thick, (the finished inside dime continuity conductor to the plate, and o		im) but excluding test joint, ear
		Net Total Quantity 5	000 set
	So.	y 5.000 set @ Rs 2952.00 / set	Rs 14760.00
		y 5.000 Set @ NS 2952.007 Set	13 14700.00
3	od196110/2018_2019	- orth Strip for corthing intercorp	action termination and loads f
	Supply & laying the following sizes of continous earthing along with cables ti		
	G	Net Total Quantity 3	00.000 metre
	Say 300.00	00 metre @ Rs 1507.00 / metre	Rs 452100.00
4	od196111/2018_2019	1921 TAV	
т	Supply & laying the following sizes of l	Earth Strip for earthing interconne	ection, termination and leads, f
	continous earthing along with cables ti		
		Net Total Quantity 5	00.000 metre
	Say 500.0	000 metre @ Rs 797.00 / metre	Rs 398500.00
5	od196112/2018_2019		
	Supply and drawing bare earthing con	ductors of the following sizes alo	ng with wiring/ cables and givir
	earth connection as required. No. 16 S	SWG Copper Conductor	
		Net Total Quantity 3	00.000 metre
	Say 300.0	000 metre @ Rs 199.00 / metre	Rs 59700.00
6	od196113/2018_2019		
	Supply and drawing bare earthing con	ductors of the following sizes alo	ng with wiring/ cables and givir
	earth connection as required. No. 10 S	SWG Copper Conductor	
		Net Total Quantity 6	00.000 metre
	Say 600.0	000 metre @ Rs 113.00 / metre	Rs 67800.00
2(a)- \$	Supply, erection, testing and commission	oning of 400 KVA Transformer	and allied works at Alady plar
	compound-(6) SUBSTATION E	QUIPMENTS & MISC (Cost I	ndex:41.53 %)
1	od196123/2018_2019		
	Supply and providing 6 mm thick & 1 m	•	type rubber mat to withstand 3
	KV dielectric strength conforming to IS	5429/ 1969.	
		Net Total Quantity 5	.000 sqm
	Sav	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 chequer KV dielectric strength conforming to IS 5429/ 1969 in front of the HT B	
	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 Extinguish fixing it to wall as required.	ner with hose and clamps includin
	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 oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the required.	e work/ wall bracket filled with fir
	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 consp	picuous location for clear vision.
	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 fran location for clear vision.	ned and placed in a conspicuou
	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 both in English and Malayalam) and conventional Skull and Bone in I by the Engineer in Charge	e 200 x 150 mm. with inscriptions
	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 a drawings, Voltage drop calculations, Earthing design & fault lev Inspectorate including all MV additions recently made and obtaining entire installation, obtaining sanction orders for the electrical installatio and statutory expenses ).	vel calculations to the Electric approval, arranging inspection for

	Net Total Quantity 1	
	Say 1.000 L.S @ Rs 20000.00 / L.S	Rs 20000.00
9	od202020/2018_2019 SCHEME APPROVAL & POWER ALLOCATION - Preparation an drawings to KSEB for obtaining sanction for power allocation (Inclu expenses) .Preparation, submission and execution of HT agreement(6 s demand according to the latest additions.	iding all incidental and statutor
	Net Total Quantity 1	1.000 L.S
	Say 1.000 L.S @ Rs 15000.00 / L.S	Rs 15000.00
• •	Supply, erection, testing and commissioning of 500 KVA Transformer water pump house compound- (1)- 11 KV substation and HT equipmer	
1	od194695/2018_2019 Erection of RCC/ PCC pole of following length in brick ballast and ramm 150 mm thick cement concrete (1:3:6) layer on top with including excave	•
	Net Total Quantity 2	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 structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts e with primer and finish paint as required.	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintir
	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts e with primer and finish paint as required.	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintir
3	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts e with primer and finish paint as required. Net Total Quantity 1	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintir .000 set Rs 6552.00
3	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts e with primer and finish paint as required. Net Total Quantity 1 Say 1.000 set @ Rs 6552.00 / set od194697/2018_2019	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintir .000 set Rs 6552.00 ead lines as required.
3	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts of with primer and finish paint as required. Net Total Quantity 1 Say 1.000 set @ Rs 6552.00 / set od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over he	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintir .000 set Rs 6552.00 ead lines as required.
3	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts of with primer and finish paint as required. Net Total Quantity 1 Say 1.000 set @ Rs 6552.00 / set od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over he Net Total Quantity 3	mm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintin .000 set Rs 6552.00 ead lines as required. 3.000 Nos Rs 2901.00
	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts e with primer and finish paint as required. Net Total Quantity 1 Say 1.000 set @ Rs 6552.00 / set od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over he Net Total Quantity 3 Say 3.000 Nos @ Rs 967.00 / Nos od194698/2018_2019 Supplying and erection of 11 kV pin insulator complete with large steel	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintin .000 set Rs 6552.00 ead lines as required. 3.000 Nos Rs 2901.00
	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts of with primer and finish paint as required. Net Total Quantity 1 Say 1.000 set @ Rs 6552.00 / set od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over he Net Total Quantity 3 Say 3.000 Nos @ Rs 967.00 / Nos od194698/2018_2019 Supplying and erection of 11 kV pin insulator complete with large steel as required.	mm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintin .000 set Rs 6552.00 ead lines as required. 3.000 Nos Rs 2901.00
	structure having four members fabricated out of 50 mm X 50 mm X 6 m of minimum size 1400 mm width X 2500 mm height, complete with 50 bolts and nuts including drilling holes for insulator pins, bolts and nuts of with primer and finish paint as required. Net Total Quantity 1 Say 1.000 set @ Rs 6552.00 / set od194697/2018_2019 Erection of double pole 3 wire cross arm for 11 KV/22 KV/33 KV over he Net Total Quantity 3 Say 3.000 Nos @ Rs 967.00 / Nos od194698/2018_2019 Supplying and erection of 11 kV pin insulator complete with large steel as required.	nm angle iron to form a rectang mm X 6mm M.S. flat iron clamp etc. (as per drawing) and paintin .000 set Rs 6552.00 ead lines as required. 3.000 Nos Rs 2901.00 I head G.I. pin, nuts, washers e I.000 set Rs 349.00 arrestor suitable for 3 wire, 11 k urrent rating of 5 kA and comple

	Say 1.000 set @ Rs 3601.00 / set	Rs 3601.00
6	od201137/2018_2019 OUTDOOR HT BREAKER PANEL (LBS) - Supply, Installation, T Outdoor HT Breaker Panel with the following components. 11kV L 630A, LBS unit - 1 set Voltmeter (0 - 11kV) - 3 Nos LED Pilot Indic Push buttons - 1 set 2NO+2NC Aux contacts - 1 Set 230V AC Shunt <sup>-</sup> 1 Set Seal off Bushings - 3 Nos Space Heater Element with Thermosta LED with switch & wiring - 1 set Metering Chamber PT - 100 VA, 11k 15VA, CL 0.2S - 3 Nos Provisions for mounting 3 phase, 4wire, HT C meter with accuracy class 0.2S including wiring and test terminal bl Circuit: The active & apparent power consumption of voltage circuit reference voltage, reference temperature & frequency shall not exc Current Circuit: The apparent power taken by current circuit at bas reference temperature shall not exceed 1.0 VA/phase. (The Quoted control wiring, components working on LT supply should be prewired as specified till the connection point for feeding LT Supply from ou incoming and outgoing cables and suitable civil foundation etc as r	oad Break Swich 11kV, 350 MVA cation - LBS ON / OFF - 1 Set Trip Trip Coil - 1 No Aluminium Busbar at & wiring - 1 Nos Inspection Lamp (V/110V, CL 0.2S - 1 No CT - */5A CT/PT operated, bi-directional TOE ock, site glass etc 1 set Voltage including power supply of meter a ceed 1.0 Watt & 4.0 VA per phase sic current, reference frequency & rate shall be inclusive of necessary completely with necessary controls tside, Cable end box for receiving
	Net Total Quantity	
	Say 1.000 set @ Rs 215359.00 / set	
	HT Bidirectional TOD Meter - Supply & Providing 3 phase, 4wire, HT accuracy class 0.2S for both Active and Reactive energy, -/5A, H register, DLMS compliant & AMR compatible with optical port and suitable for measurement of active kWh, reactive energy kVARh an MD, kW MD at nominal frequency in the range of 47.5 Hz to 52.5 Hz load conditions in the existing outdoor Meter cubicle including testing	T static tri vector meter with TOE d RS232 port having ISI Marking nd apparent energy kVAh and kVA in balanced as well as unbalanced
	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 - Provid chainlink fencing over 4mm thick barbed wire with a framework of 50x posts of ISMC 75 at 2400mm interval, Earthing as per KSEI/KSEB s periphery of the fencing. The MS framework for chainlink fencing sha shall be inclusive of all materials, labour, lead, lift etc including esc assembly works including all nuts, bolts and other miscallaneous item as directed by the Engineer in Charge.	50x6mm MS angle between vertica standards shall be done around the all be Hot Dip Galvanised. The rate calation works and fabrication and
	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 40mm size blue jelly of 150mm thick including cost and conveyance complete	

	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 - Sup masonry with hard stone in foundation and plinth including levelling cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal s mortar 1:6 (1 cement : 6 coarse sand).	up with cement concrete 1:6:12
	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 commissionin 3Ph, 50Hz, 11/3.3 kV,ONAN cooled, copper wound outdoor distribut +5% to -10% in steps of 2.5% with OFTC. The HT side & LT side s cable. The transformer shall have suitable enclosure for The HT side & complete with all standard accessories and fittings & conform to IS:202 materials, lead,lift, first fill of oil, necessary civil works for mounting to complete as per single line schematic diagram & particular specification	ion transformer with tappings fro hall have cable end box for XLF & LT side. The transformer shall 26. The rate shall be inclusive of the existing transformer foundation
	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 number50/ 63 KVA( or ,distribution transformer Indoor (or out door),with HT/LT cable entry ,w 3.3 KV pannel to transformer and LT cable to LT panel,cable terminal for transformer including ,erection ,testing and commissioning of LT p NOS 63 A outgoing MCCB with isolation,erathing , with meters and including approvel from Inspectratecomplete-as per CEA and Inspectrate.	ith suitable HT and LT cables fro tion,foundation/structure/enclosu annel with 100A incomer MCCB, nd indicating lamps etc comple
	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 30	sec NGR - Supply
	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 30	sec NGR - Labour
	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 enclosure including giving connections to Transformer Neutral et	

	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 20/54 enclosure including giving connections to Transformer Neutral et	
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 625.00 / No	Rs 625.00
	upply, erection, testing and commissioning of 500 KVA Transforme water pump house compound-(2)- LT / MV PANELS & ACCESSORI	
1	od201161/2018_2019 PCC PANEL -Design ,approvel, Supply, fabrication, erection, testing a type fully compartmentalized, dust tight, vermin proof, water proof 3 suitable rating - Main 3.3.KV Panel falling to IP54 category fabricated painted as per standards with Alumimium Busbars of suitable size double earth connection to all switches, internal rigid connection etc. open, top cable entry with water proof shrouding, free standing pane standards ( All switches shall confirm to conforming to IEC 60947-2 Microprocessor based VCB - suitable MVA based on fault level 1 N best conductivity Aluminium busbar with SMC supports, heat shrinka RYB indicators ( LED Pilot type ) with 2A Control MCB and toggle sw Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVAR 15VA Metering CTs -one VCB incomer 200 A or suitable size- 3 Se 100/50A VCB out goingwith isolation facility - Surge Protection F potential free contact, thermal disconnector & provision for inbuilt com arresters to connect between Line and Neutral and one number Sg between Neutral and Earth of following ratings including base eleme voltage 3.3KV, 50Hz, Nominal Discharge current Max 50 kA (8/20 sc) for for Neutral to Earth, Maximum Discharge Current Imax 50 kA (8/20 sc) be supported to ground using framework fabricated out of MS Flats / A Zinc Chromate primer and two coats of enamel paint. The framework using suitable cement concrete plinth. The Panel Board shall be pro bus for the full length. Painting letters / identifications for the incoming sizes, etc., in white enamel paint. The board shall be fabricated in su possible. Supply & Labour ,suitable battery and charger for the pane State Electrical Inspectrate relevant statutes, approvel from inspectrat used for all control ciruits-	8.3 kv , VCB panel set 200Amp out of 16 SWG CRCA Sheet Ste , earth bus of adequate capacit including suitable chambers, fro cloonsisting of the following as p standards). Incommer - 200A F Nos. Restricted Earth Fault Relay able sleeves etc. as per ISS - 1s vitches - 4 Set Multifunction Digit h Class 1.0 - 1 Set 200/5A CL 1. the Outgoings: 200A, VCB - 1 No Pluggable type surge arrester wi mon remote indication for defective bark Gap type arrester to conne ent & pluggable arresters. Nomin Line to Neutral & 50 kA (8/20 se ec) -1Set Supports The panel sha ingles etc. painted with two coats shall be firmly supported to grour vided with 25 x 3mm copper ear and outgoing switches, cable, fus uch a way that future extension b el,-complete as per CEA and kera e ,2.5 sq mm copper cable shall b
	Net Total Quantity	1.000 set
	Say 1.000 set @ Rs 1806133.00 / set	Rs 1806133.00
• •	upply, erection, testing and commissioning of 500 KVA Transforme er pump house compound- (3)- DISTRIBUTION BOARDS, SWITCHG Index:41.53 %)	

1	od194998/2018_2019 Supply, installation, testing & commissioning of best quality sheet ster and vermin proof enclosure (IP43) Vertical TPN Double door DB incl earth bus and DIN rail suitable for fixing RCCB + Isolator (8 module outgoings etc. on wall using suitable anchor bolts or fixed in recess making good the damages, colour washing, dressing the DB includ Including closing vaccant slots using Dummy ) - 12 Way	luding copper bus bar, neutral link, )as incommer and SP/TP MCB as including cutting hole on the wall ,
	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 Isola MCS / Junction Boxes etc. including giving proper termination usin sleeves, insulation etc. complete - 63A, 100mA 3Ph RCCB	-
	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 Isola MCS / Junction Boxes etc. including giving proper termination usin sleeves, insulation etc. complete. 63A, 4P MCB Isolator	ng suitable Bananna copper lugs,
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 1050.00 / No Kerala Water Authority	Rs 1050.00
4	od201178/2018_2019 Supply and providing the following MCCB/ RCCB / MCB / MCB Isola MCS / Junction Boxes etc. including giving proper termination usin sleeves, insulation etc. complete - 6A to 32A, 10kA SP MCB	, i i i i i i i i i i i i i i i i i i i
	Net Total Quantity	36.000 No
	Say 36.000 No @ Rs 181.00 / No	Rs 6516.00
• •	Supply, erection, testing and commissioning of 500 KVA Transforme v water pump house compound- (4)- CABLES , WIRES & ACCESSOR	r and allied works at Thonithady
raw		IES (Cost Index:41.53 %)
1	od201350/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqm	aluminium conductor, conductors insulation screened with extruded A for 1 sec.), cores laid up, inner VC sheathed cable of the following
	HT Power Cables - Supply & laying 11KV stranded compact circular screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k sheath of PVC tape, galvanized steel flat strip armoured, and overall P sizes in the existing cable trench conforming to IS: 7098 part II 1985	aluminium conductor, conductors insulation screened with extruded A for 1 sec.), cores laid up, inner VC sheathed cable of the following with latest amendments. 3C x 150

	Say 65.000 metre @ Rs 1072.00 / metre	Rs 69680.00
3	od201352/2018_2019 HT Power Cables - Supply & laying 11KV stranded compact circular screened with extruded semi conducting compound XLPE insulated, semi conducting compound in combination with copper tape (0.3 k/ sheath of PVC tape, galvanized steel flat strip armoured, and overall PV sizes in the existing cable trench conforming to IS: 7098 part II 1985 Sqmm	insulation screened with extruded A for 1 sec.), cores laid up, inner VC sheathed cable of the following
	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 termin kit, including lugs and other jointing materials, for following sizes, XLPE KV grade as required. 3C x 150 Sqmm Water Authority Net Total Quantity	E aluminium conductor cable of 11
	Say 4.000 set @ Rs 10002.00 / set	Rs 40008.00
5	Say 4.000 set @ Rs 10002.00 / set od201354/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termin kit, including lugs and other jointing materials, for following sizes, XLPE KV grade as required. 3C x 50 Sqmm	Rs 40008.00
5	od201354/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termin kit, including lugs and other jointing materials, for following sizes, XLPB	Rs 40008.00
5	od201354/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termin kit, including lugs and other jointing materials, for following sizes, XLPE KV grade as required. 3C x 50 Sqmm	Rs 40008.00
5	od201354/2018_2019 HT Cable Terminations - Supplying and making indoor cable end termin kit, including lugs and other jointing materials, for following sizes, XLPE KV grade as required. 3C x 50 Sqmm Net Total Quantity	Rs 40008.00 nation with heat shrinkable jointing aluminium conductor cable of 1 8.000 set Rs 61312.00 nation with heat shrinkable jointing
	od201354/2018_2019         HT Cable Terminations - Supplying and making indoor cable end terminkit, including lugs and other jointing materials, for following sizes, XLPE         KV grade as required. 3C x 50 Sqmm         Net Total Quantity         Say 8.000 set @ Rs 7664.00 / set         od201355/2018_2019         HT Cable Terminations - Supplying and making indoor cable end terminkit, including lugs and other jointing materials, for following sizes, XLPE	Rs 40008.00 nation with heat shrinkable jointing aluminium conductor cable of 1 8.000 set Rs 61312.00 nation with heat shrinkable jointing aluminium conductor cable of 1

	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 join kit, including lugs and other jointing materials, for for following sizes, X 11 KV grade as required. 1C x 50 Sqmm	-
	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 F armoured Power / Control cable of 1.1 KV grade of the following sizes 2.5 Sqmm	
	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 following sizes using Siemens type Brass compression gland & Copp	
	Sqmm (82mm)	
	Sqmm (82mm) Net Total Quantity	6.000 No
	Net Total Quantity Say 6.000 No @ Rs 2152.00 / No	6.000 No <b>Rs 12912.00</b>
11	Net Total Quantity	Rs 12912.00
11	Net Total Quantity Say 6.000 No @ Rs 2152.00 / No od201360/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp	Rs 12912.00 termination of UG cables of the ber lugs etc. complete. 3.5C x 3
11	Net Total Quantity Say 6.000 No @ Rs 2152.00 / No Od201360/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (70mm)	Rs 12912.00 termination of UG cables of the ber lugs etc. complete. 3.5C x 3
11	Net Total Quantity Say 6.000 No @ Rs 2152.00 / No od201360/2018_2019 LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (70mm) Net Total Quantity	Rs 12912.00 termination of UG cables of the ber lugs etc. complete. 3.5C x 30 8.000 No Rs 13704.00
	Net Total Quantity         Say 6.000 No @ Rs 2152.00 / No         od201360/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Sqmm (70mm)         Net Total Quantity         Say 8.000 No @ Rs 1713.00 / No         od201361/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp	Rs 12912.00 termination of UG cables of the er lugs etc. complete. 3.5C x 3 8.000 No Rs 13704.00 termination of UG cables of the per lugs etc. complete. 3.5C x 3
	Net Total Quantity         Say 6.000 No @ Rs 2152.00 / No         od201360/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Sqmm (70mm)         Net Total Quantity         Say 8.000 No @ Rs 1713.00 / No         od201361/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Say 8.000 No @ Rs 1713.00 / No         od201361/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Sqmm (32mm)	Rs 12912.00 termination of UG cables of the ber lugs etc. complete. 3.5C x 30 8.000 No Rs 13704.00 termination of UG cables of the per lugs etc. complete. 3.5C x 30
	Net Total Quantity         Say 6.000 No @ Rs 2152.00 / No         od201360/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Sqmm (70mm)         Net Total Quantity         Say 8.000 No @ Rs 1713.00 / No         od201361/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Say 8.000 No @ Rs 1713.00 / No         od201361/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end         following sizes using Siemens type Brass compression gland & Copp         Sqmm (32mm)         Net Total Quantity	Rs 12912.00         termination of UG cables of the register lugs etc. complete. 3.5C x 30         8.000 No         Rs 13704.00         termination of UG cables of the register. complete. 3.5C x 30         2.000 No         Rs 874.00         termination of UG cables of the register. complete. 3.5C x 30         Rs 874.00
12	Net Total Quantity         Say 6.000 No @ Rs 2152.00 / No         Kerala Water Authority         od201360/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (70mm)         Net Total Quantity         Say 8.000 No @ Rs 1713.00 / No         od201361/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (32mm)         Net Total Quantity         Say 2.000 No @ Rs 437.00 / No         od201362/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (32mm)         Net Total Quantity         Say 2.000 No @ Rs 437.00 / No         od201362/2018_2019         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (3201362/2018_2019)         LT Power Cables - Providing cable glanding, gland earthing & end following sizes using Siemens type Brass compression gland & Copp Sqmm (3201362/2018_2019)	Rs 12912.00         termination of UG cables of the per lugs etc. complete. 3.5C x 30         8.000 No         Rs 13704.00         termination of UG cables of the per lugs etc. complete. 3.5C x 30         2.000 No         Rs 874.00         termination of UG cables of the per lugs etc. complete. 4C x 2

14	od201363/2018_2019	
	LT Power Cables - Supply & drawing the following size of FR Mu	ulti-core PVC Insulated and PVC
	sheathed Copper conductor round flexible wire manufactured with brig	ht annealed bare copper conductor
	as per IS 8130/1984 Insulated and sheathed with electrical grade PV	
	generally conforming to IS 694/1990 for working voltage up to and incl	uding 1100 V through existing PVC
	conduit / casing capping wall. 3C x 0.5 Sqmm	
	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 Mu	ulti-core PVC Insulated and PVC
	sheathed Copper conductor round flexible wire manufactured with brig	ht annealed bare copper conductor
	as per IS 8130/1984 Insulated and sheathed with electrical grade PV	C compound as per IS 5831/1984
	generally conforming to IS 694/1990 for working voltage up to and incl conduit / casing capping wall. 3C x 1.5 Sqmm	uding 1100 V through existing PVC
	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 Marke	d rigid PVC conduits with specials
	confirming to IS 9537/1983 on surface / concealed position m	
	etc.complete. 20mm dia 1.5mm thick	
	Net Total Quantity	350.000 metre
	Say 350.000 metre @ Rs 88.00 / metre	Rs 30800.00
17	od201366/2018 2019	
17	PVC Conduits - Supply and providing the following size of ISI Marke	d rigid PVC conduits with specials
	confirming to IS 9537/1983 on surface / concealed position m	
	etc.complete. 25mm dia 1.5mm thick	
	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 Marke	d rigid PVC conduits with specials
	confirming to IS 9537/1983 on surface / concealed position m	aking good the damages made
	etc.complete. 32mm dia 1.5mm thick	
	Net Total Quantity	100.000 metre
	Say 100.000 metre @ Rs 138.00 / metre	Rs 13800.00
19	od201368/2018_2019	
19	PVC Conduits - Supply & providing Capping / Casing of good quality of	f the following sizes. 20 mm
	Net Total Quantity	-
	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
	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 of protection in the existing trench in position etc. complete. 50 mm	class GI Pipe for UG Cable tamp
	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 tamp
	protection in the existing trench in position etc. complete. 75 mm	
	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 insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca	0/1984 insulated with di-electric S 694/1990 for working voltage
	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to Is to and including 1100 V.through the existing PVC conduits / capping ca	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN +
	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN +
24	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN + 100.000 metre <b>Rs 19900.00</b> d copper wire manufactured w 0/1984 insulated with di-electric S 694/1990 for working voltage
	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 100.000 metre @ Rs 199.00 / metre od201373/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to IS	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN + 100.000 metre <b>Rs 19900.00</b> d copper wire manufactured w 0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 2.5 Sqmm - SPN +
	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 100.000 metre @ Rs 199.00 / metre od201373/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN + 100.000 metre <b>Rs 19900.00</b> d copper wire manufactured w 0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 2.5 Sqmm - SPN +
24	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 100.000 metre @ Rs 199.00 / metre od201373/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 200.000 metre @ Rs 154.00 / metre	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN + 100.000 metre <b>Rs 19900.00</b> d copper wire manufactured w 0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 2.5 Sqmm - SPN + 200.000 metre
	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 100.000 metre @ Rs 199.00 / metre od201373/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to I to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN + 100.000 metre <b>Rs 19900.00</b> d copper wire manufactured w 0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 2.5 Sqmm - SPN + 200.000 metre <b>Rs 30800.00</b> pper wire manufactured with brig t insulated with di-electrical gra 1990 for working voltage up to a
24	Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to Is to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 100.000 metre @ Rs 199.00 / metre od201373/2018_2019 Circuit Mains - Supply and wiring the following size of PVC insulate bright annealed bunched electrolytic copper conductor as per IS 813 grade PVC compound per as IS 5831/1984 Generally Conforming to Is to and including 1100 V.through the existing PVC conduits / capping ca Net Total Quantity Say 200.000 metre @ Rs 154.00 / metre od201374/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated co annealed bunched electrolytic copper conductor as per IS 8130/1984 PVC compound per as IS 5831/1984 Generally Conforming to IS 694/	0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 4.0 Sqmm - SPN + 100.000 metre <b>Rs 19900.00</b> d copper wire manufactured w 0/1984 insulated with di-electric S 694/1990 for working voltage asing. 3 run x 2.5 Sqmm - SPN + 200.000 metre <b>Rs 30800.00</b> pper wire manufactured with brig t insulated with di-electrical gra 1990 for working voltage up to a 3 run x 1.5 sqmm - SPN + E

26	od201375/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and or angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm sp members and supported using 25cm long 32x6mm MS flat at every supports shall be painted with two coats of Zinc Chromate primer a	bacing between successive cross 1m spacing. The cable trays and
	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 check including cutting, welding, painting etc. as required for the cable t	
	Net Total Quantity	100.000 kg
L	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 providin above the cable, providing sand cushioning of 150mm refilling & restor per standards of the following size. 35 cm Wide x 100 cm Deep ( HT C	ing normal surface etc.complete as
	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 providin above the cable, providing sand cushioning of 150mm refilling & restor per standards of the following size. 35 cm Wide x 75 cm Deep ( LT Ca	ing normal surface etc.complete as bles )
	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 ( there on bolted / welded to 35x35x6mm angle iron 60cm long and fixing	•
	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 ( there on bolted / welded to 35x35x6mm angle iron 60cm long and fixin Net Total Quantity	ng the same in ground as required. 25.000 No
162(b)- Sເ	Say 25.000 No @ Rs 417.00 / No upply, erection, testing and commissioning of 500 KVA Transforme plant compound- (5)- EARTHING & ACCESSORIES (Cos	

1		
	<ul> <li>od201561/2018_2019</li> <li>Supply and providing plate earthing as per IS 3043 with 1200x1200x1</li> <li>watering pipe fixed to the earth plate with 25 x 3mm GI clamps, GI fund</li> <li>quantity of charcoal including construction of inspection chamber with</li> <li>40 mm broken stone (10 cm thick), brick work in cement mortar 1</li> <li>masonry and the exposed surface of PCC bed with cement mortar 1:4</li> <li>dimension shall be 450 x 450 x 450 mm) but excluding test joint, earth</li> </ul>	nel with weld mesh, filling required a bed concrete of 1:4:8 PCC using 6, plastering the surface of brick 4, 12 mm thick, (the finished inside
	and covering at the top.	
		8 000 est
	Net Total Quantity	
	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 with weld mesh, filling required quantity of charcoal & salt including of with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm 1:6, plastering the surface of brick masonry and the exposed surface of 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 continuity conductor to the plate, and covering at the top.	construction of inspection chambe thick), brick work in cement morta of PCC bed with cement mortar 1:4
	Net Total Quantity	5.000 set
	Say 5.000 set @ Rs 2952.00 / set	
3	od201563/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercon continous earthing along with cables tinned at terminals etc. complete	
	Net Total Quantity	300 000 metre
	Say 300.000 metre @ Rs 1600.00 / metre	
4		Rs 480000.00
4	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercon continous earthing along with cables tinned at terminals etc. complete	Rs 480000.00 Inection, termination and leads, for e. 25 x 3 mm Copper strip
4	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercon continous earthing along with cables tinned at terminals etc. complete Net Total Quantity	Rs 480000.00 Inection, termination and leads, for e. 25 x 3 mm Copper strip 500.000 metre
4	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercon continous earthing along with cables tinned at terminals etc. complete	Rs 480000.00 Inection, termination and leads, for e. 25 x 3 mm Copper strip 500.000 metre Rs 398500.00
	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercom continous earthing along with cables tinned at terminals etc. complete Net Total Quantity Say 500.000 metre @ Rs 797.00 / metre od201565/2018_2019 Supply and drawing bare earthing conductors of the following sizes a earth connection as required. No.16 SWG Copper Conductor	Rs 480000.00 Innection, termination and leads, for e. 25 x 3 mm Copper strip 500.000 metre Rs 398500.00 long with wiring/ cables and givin
	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercom continous earthing along with cables tinned at terminals etc. complete Net Total Quantity Say 500.000 metre @ Rs 797.00 / metre od201565/2018_2019 Supply and drawing bare earthing conductors of the following sizes a earth connection as required. No.16 SWG Copper Conductor Net Total Quantity	Rs 480000.00 Inection, termination and leads, for e. 25 x 3 mm Copper strip 500.000 metre Rs 398500.00 long with wiring/ cables and givin 300.000 metre
	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercom continous earthing along with cables tinned at terminals etc. complete Net Total Quantity Say 500.000 metre @ Rs 797.00 / metre od201565/2018_2019 Supply and drawing bare earthing conductors of the following sizes a earth connection as required. No.16 SWG Copper Conductor	Rs 480000.00 Innection, termination and leads, for a. 25 x 3 mm Copper strip 500.000 metre Rs 398500.00 Iong with wiring/ cables and givin 300.000 metre Rs 59700.00
5	Say 300.000 metre @ Rs 1600.00 / metre od201564/2018_2019 Supply & laying the following sizes of Earth Strip for earthing intercom- continous earthing along with cables tinned at terminals etc. complete Net Total Quantity Say 500.000 metre @ Rs 797.00 / metre od201565/2018_2019 Supply and drawing bare earthing conductors of the following sizes a earth connection as required. No.16 SWG Copper Conductor Net Total Quantity Say 300.000 metre @ Rs 199.00 / metre od201566/2018_2019 Supply and drawing bare earthing conductors of the following sizes a	Rs 480000.00 Innection, termination and leads, for e. 25 x 3 mm Copper strip 500.000 metre Rs 398500.00 Iong with wiring/ cables and givin 300.000 metre Rs 59700.00 Iong with wiring/ cables and givin

1	od201637/2018_2019 Supply and providing 6 mm thick & 1 m wide electrical grade chequere KV dielectric strength conforming to IS 5429/ 1969.	d type rubber mat to withstand 3
	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 chequere KV dielectric strength conforming to IS 5429/ 1969 in front of the HT Bro	
	Net Total Quantity	2.000 sqm
	Say 2.000 sqm @ Rs 1379.00 / sqm	Rs 2758.00
3	od201639/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguish fixing it to wall as required.	er with hose and clamps includi
	Net Total Quantity	2.000 set
	Say 2.000 set @ Rs 2383.00 / set	Rs 4766.00
	od201640/2018_2019	
	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required.	e work/ wall bracket filled with findamages, colour washing etc.
	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required.	e work/ wall bracket filled with find amages, colour washing etc.
5	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required.	e work/ wall bracket filled with fil damages, colour washing etc. 4.000 set Rs 2552.00
5	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the c required. Net Total Quantity Say 4.000 set @ Rs 638.00 / set od201641/2018_2019	e work/ wall bracket filled with fil damages, colour washing etc. 4.000 set <b>Rs 2552.00</b> vicuous location for clear vision.
5	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the c required. Net Total Quantity Say 4.000 set @ Rs 638.00 / set od201641/2018_2019 Supply and providing First Aid Chart duly framed and placed in a consp	e work/ wall bracket filled with fi damages, colour washing etc. 4.000 set Rs 2552.00
5	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required. Net Total Quantity Say 4.000 set @ Rs 638.00 / set od201641/2018_2019 Supply and providing First Aid Chart duly framed and placed in a consp Net Total Quantity	e work/ wall bracket filled with fi damages, colour washing etc. 4.000 set <b>Rs 2552.00</b> icuous location for clear vision. 1.000 set <b>Rs 247.00</b>
	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required. Net Total Quantity Say 4.000 set @ Rs 638.00 / set od201641/2018_2019 Supply and providing First Aid Chart duly framed and placed in a consp Net Total Quantity Say 1.000 set @ Rs 247.00 / set od201642/2018_2019 Supply and providing Laminated Electrical Schematic diagram frame	e work/ wall bracket filled with fil damages, colour washing etc. 4.000 set Rs 2552.00 icuous location for clear vision. 1.000 set Rs 247.00 ned and placed in a conspicuo
	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required. Net Total Quantity Say 4.000 set @ Rs 638.00 / set od201641/2018_2019 Supply and providing First Aid Chart duly framed and placed in a consp Net Total Quantity Say 1.000 set @ Rs 247.00 / set od201642/2018_2019 Supply and providing Laminated Electrical Schematic diagram fram location for clear vision.	e work/ wall bracket filled with fin damages, colour washing etc. a 4.000 set Rs 2552.00 icuous location for clear vision. 1.000 set Rs 247.00 ned and placed in a conspicuou
	Supply and providing 9 Litre capacity GI Fire Bucket painted in post oxide and written with white paint 'FIRE' mounted on MS angle frame sand, painting the bracket/ floor stand including making good the or required. Net Total Quantity Say 4.000 set @ Rs 638.00 / set od201641/2018_2019 Supply and providing First Aid Chart duly framed and placed in a consp Net Total Quantity Say 1.000 set @ Rs 247.00 / set od201642/2018_2019 Supply and providing Laminated Electrical Schematic diagram fram location for clear vision. Net Total Quantity	e work/ wall bracket filled with fi damages, colour washing etc. 4.000 set <b>Rs 2552.00</b> icuous location for clear vision. 1.000 set <b>Rs 247.00</b> ned and placed in a conspicuo 1.000 set <b>Rs 226.00</b> 200 x 150 mm. with inscription

	Say 10.000 No @ Rs 267.00 / No	Rs 2670.00
• •	Supply, erection, testing and commissioning of 500 KVA Transformer er pump house compound-(7) - SCHEME APPROVAL & POWER ALL %)	
1	od202018/2018_2019 SCHEME APPROVAL & POWER ALLOCATION - Preparation and drawings, Voltage drop calculations, Earthing design & fault lev Inspectorate including all MV additions recently made and obtaining entire installation, obtaining sanction orders for the electrical installation and statutory expenses ).	rel calculations to the Electrica approval, arranging inspection fo
	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 drawings to KSEB for obtaining sanction for power allocation (Incl expenses) .Preparation, submission and execution of HT agreement(6 demand according to the latest additions.	uding all incidental and statutor sets) as per the renewed Contrac
	Net Total Quantity	
	Say 1.000 L.S @ Rs 15000.00 / L.S	Rs 15000.00
	19Supply, erection, testing and commissioning of motor pump set	(Cost Index:41.53 %)
	No Specifications added under this Estimate	
• •	upply, Erection, Testing and Commissioning of 2 Nos new Vertical Tu 3300V) having discharge of 80 lps against a total head of 180 M. suc raw water pump house (Cost Index:41.53 %	tion head 20.30m at Thonithady
1	od197162/2018_2019 Supply, Erection, Testing and Commissioning of 2 Nos new Vertical voltage 3300V) having discharge of 80 lps against a total head of 180 sump.( From raw water pumping station to Alady plant) including cost	M. suction head 20.30 m at WTI
	Net Total Quantity	2.000 No
	Say 2.000 No @ Rs 3888802.96 / No	Rs 7777605.92
2	od197164/2018_2019 Supply of additional cable byond the initial supply of 10Mtr. Additiona starter and from starter to motor	I requirement from panel board t
	Net Total Quantity	25.000 metre
	Say 25.000 metre @ Rs 1518.00 / metre	Rs 37950.00

3	od197165/2018_2019 Supply of suitable size PVC insulated, sheathed, armoured copper relevant IS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The se	pannel board etc. complete as per
	requirement.	
	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 excavat trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan ramming of bottoms, lift up to 1.5 m, including getting out the excav excavated soil as directed, within a lead of 50 m.All kinds of soil	), including dressing of sides and
	Net Total Quantity	15.000 cum
	Say 15.000 cum @ Rs 309.95 / cum	Rs 4649.25
5	od197167/2018_2019 Providing 350mm surge arrestor- Providing 350mm surge arrestor hav clear water pumping main including cost of specials such as 2 Nos. T cutting the existing DI pipe, inserting surge arrestor, jointing with flange arrestor.(Rate as per DSR Observed data)	ail piece, 2 Nos. Mechanical joints,
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 600000.00 / No	Rs 600000.00
6	od197168/2018_2019 Providing 350mm surge arrestor- Cement concrete 1:2:4 using 20mm block including charges of form work and labour charges etc. complete	
	Net Total Quantity	5.000 cum
	Say 5.000 cum @ Rs 8941.83 / cum	Rs 44709.15
7	od197169/2018_2019 Providing 350mm surge arrestor- Providing air cushion valve of diar Kg/cm2 with flanged ends including all cost of materials such as 2 200mm D/F CI sluice valve - 1 No. etc and all labour charges for fittir by the departmental officers.(Rate as per DSR Observed data)	200mm air cushion valve - 1 No.,
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 409500.00 / No	Rs 409500.00
8	od197170/2018_2019 Providing 350mm surge arrestor- Constructing RCC valve chamber of providing the zero velocity valve including all cost of materials, labour directed by the departmental officers. (Rate as per DSR Observed dat	charge, form work etc complete as
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 63841.40 / No	Rs 63841.40

	od197171/2018_2019 STATUTORY APPROVAL FROM KSEB	
		1 000 No
	Net Total Quantity	
	Say 1.000 No @ Rs 50000.00 / No	Rs 50000.00
		t Index:41.53 %)
1	od494/2019_2020 Providing 11 KV line extension, CD and OYEC charges for the p treatment plant - 400 KVA ( Approval from KSEB)	oower connection of Alady wate
	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 of pumping station - 500 KVA ( Approval from KSEB)	connection of Thonithady raw wate
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 872306.00 / No	Rs 872306.00
239(a.)	No Specifications added under this Estimate Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde	
2 <b>39(a.)</b> 1	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5n
	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota speed 1450 rpm at Nariampara pumping station.(Intermediate sump to	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5n o Narianpara Top GLSR)
	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5n o Narianpara Top GLSR)
	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota speed 1450 rpm at Nariampara pumping station.(Intermediate sump to Net Total Quantity	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5n o Narianpara Top GLSR) 2.000 No Rs 495693.84
1	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota speed 1450 rpm at Nariampara pumping station.(Intermediate sump to Net Total Quantity Say 2.000 No @ Rs 247846.92 / No od54106/2020_2021 Supply of additional cable byond the initial supply of 10Mtr. Additional	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5r o Narianpara Top GLSR) 2.000 No Rs 495693.84 al requirement from panel board t
1	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota speed 1450 rpm at Nariampara pumping station.(Intermediate sump to Net Total Quantity Say 2.000 No @ Rs 247846.92 / No od54106/2020_2021 Supply of additional cable byond the initial supply of 10Mtr. Additional starter and from starter to motor	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5r o Narianpara Top GLSR) 2.000 No Rs 495693.84 al requirement from panel board t
1	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Nariyanpara top GL tank (Cost Inde od54105/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 3.50 lps against a tota speed 1450 rpm at Nariampara pumping station.(Intermediate sump to Net Total Quantity Say 2.000 No @ Rs 247846.92 / No od54106/2020_2021 Supply of additional cable byond the initial supply of 10Mtr. Additional starter and from starter to motor Net Total Quantity	x:41.53 %) zontal / Vertical type multi stag al head of 173 M. suction head 5m to Narianpara Top GLSR) 2.000 No Rs 495693.84 al requirement from panel board to 25.000 metre Rs 4830.00 er conductor cable conforming to pannel board etc. complete as pe

	Say 20.000 metre @ Rs 266.80 / metre	Rs 5336.00
4	od54108/2020_2021	
Ŧ	STATUTORY APPROVAL FROM KSEB	
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 25000.00 / No	Rs 25000.00
49(b) S	Supply, Erection, Testing and Commissioning of 2 Nos motor pump s for pumping to Mulakaramedu/ Kochuthovala GL tank (Co	sets at Nariyanpara pump house st Index:41.53 %)
1	od54144/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 22 lps against a tota speed 1450 rpm at Nariampara pumping station.(Intermediate sump to GLSR)	I head of 113 M. suction head 5r
	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 starter and from starter to motor	al requirement from panel board
	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 relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The se requirement.	pannel board etc. complete as p
	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	
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 25000.00 / No	Rs 25000.00
259(c)	) Supply, Erection, Testing and Commissioning of 2 Nos motor pump pumping to Labbakada GL tank (Cost Index:41	
1	od54190/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Hori Centrifugal motor Pumpset having discharge of 11 lps against a tota speed 1450 rpm at Kalthotty pumping station.(To Labbakada GLSR	al head of 19 M. suction head 5r )
	Net Total Quantity	2.000 No

	od54191/2020_2021 STATUTORY APPROVAL FROM KSEB	
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 5000.00 / No	Rs 5000.00
269(d)	Supply, Erection, Testing and Commissioning of 2 Nos motor pump pumping to Meppara GL tank (Cost Index:41.5	••••
1	od54202/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Hori Centrifugal motor Pumpset having discharge of 11 lps against a tota speed 1450 rpm at Kalthotty pumping station.(Kalthotty to Mepara G	I head of 184 M. suction head 5r
	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. Addition starter and from starter to motor	al requirement from panel board
	Net Total Quantity	25.000 metre
	Say 25.000 metre @ Rs 339.25 / metre	Rs 8481.25
3	od54204/2020_2021	5
3	od54204/2020_2021 Supply of suitable size PVC insulated, sheathed,armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement.	pannel board etc. complete as p
3	Supply of suitable size PVC insulated, sheathed, armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su	pannel board etc. complete as p upply shall be limited to the actu
3	Supply of suitable size PVC insulated, sheathed, armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement.	pannel board etc. complete as p upply shall be limited to the actu
3	Supply of suitable size PVC insulated, sheathed, armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement. Net Total Quantity	pannel board etc. complete as p upply shall be limited to the actu 20.000 metre
	Supply of suitable size PVC insulated, sheathed, armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement. Net Total Quantity Say 20.000 metre @ Rs 396.75 / metre od54205/2020_2021	pannel board etc. complete as p upply shall be limited to the actu 20.000 metre <b>Rs 7935.00</b>
	Supply of suitable size PVC insulated, sheathed, armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement. Net Total Quantity Say 20.000 metre @ Rs 396.75 / metre od54205/2020_2021 STATUTORY APPROVAL FROM KSEB	pannel board etc. complete as p upply shall be limited to the actu 20.000 metre <b>Rs 7935.00</b>
4	Supply of suitable size PVC insulated, sheathed, armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The sur- requirement. Net Total Quantity Say 20.000 metre @ Rs 396.75 / metre od54205/2020_2021 STATUTORY APPROVAL FROM KSEB Net Total Quantity	pannel board etc. complete as pupply shall be limited to the actu 20.000 metre Rs 7935.00 1.000 No Rs 25000.00
4	Supply of suitable size PVC insulated, sheathed,armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The sur- requirement. Net Total Quantity Say 20.000 metre @ Rs 396.75 / metre od54205/2020_2021 STATUTORY APPROVAL FROM KSEB Net Total Quantity Say 1.000 No @ Rs 25000.00 / No Power allocation charges (OYEC & CD) Extension of three phase line	pannel board etc. complete as p upply shall be limited to the actu 20.000 metre <b>Rs 7935.00</b> 1.000 No <b>Rs 25000.00</b> e to Kalthotti and Nariyanpara
4 279(e)	Supply of suitable size PVC insulated, sheathed,armoured copper relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The sur- requirement. Net Total Quantity Say 20.000 metre @ Rs 396.75 / metre od54205/2020_2021 STATUTORY APPROVAL FROM KSEB Net Total Quantity Say 1.000 No @ Rs 25000.00 / No Power allocation charges (OYEC & CD) Extension of three phase lim pumping station (Cost Index:41.53 %) od54540/2020_2021 Power allocation and energization of clear water pump house at Kar power allocation fee , Estimate cost for service connection, Cash dep	pannel board etc. complete as p upply shall be limited to the actu 20.000 metre <b>Rs 7935.00</b> 1.000 No <b>Rs 25000.00</b> e to Kalthotti and Nariyanpara Althotty ( Including application fe osit) - As per intimation notice DI

2	od54541/2020_2021 Any additional cost for actual execution of work - Power allocation and	d energization of clear water pum
	house at Kalthotty 100 KVA ( Approval from KSEB) Net Total Quantity	1 000   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 Nariy power allocation fee, Estimate cost for service connection, Cash dep 2018-19/ESKNCHR/326 dated 22.03.2019 from KSEB)	
	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 an house at Nariyampara 160 KVA ( Approval from KSEB)	d energization of clear water pum
	Net Total Quantity	1.000 L.S
	Say 1.000 L.S @ Rs 200000.00 / L.S	Rs 200000.00
	No Specifications added under this Estimate oly, Erection, Testing and Commissioning of 2 Nos Centrifugal Motor gainst a total head of 81 M. suction head 5m at WTP sump for pumpir (Cost Index:41.53 %)	
1	od54791/2020_2021	
	Supply, Erection, Testing and Commissioning of 2 Nos new Hori Centrifugal motor Pumpset having discharge of 5 lps against a tota speed 1450 rpm at Alady water treatment plant to Alady GLSR.	
	Net Total Quantity	2.000 No
	Say 2.000 No @ Rs 238352.12 / No	
2	od54792/2020_2021 Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor	
	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 relevantIS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement.	er conductor cable conforming t pannel board etc. complete as pe

	Net Tetel Oversite	00 000 m stra
	Net Total Quantity	
	Say 20.000 metre @ Rs 416.30 / metre	Rs 8326.00
4	od54794/2020_2021 STATUTORY APPROVAL FROM KSEB	
	Net Total Quantity	1.000 No
	Say 1.000 No @ Rs 25000.00 / No	Rs 25000.00
• •	) - Supply, Erection, Testing and Commissioning of 2 Nos new Centri harge of 65 lps against a total head of 125 M. suction head 5m speed pumping to Kalthotty / Nariyampara sumps (Cost Ind	• • •
1	od55073/2020_2021 Supply, Erection, Testing and Commissioning of 2 Nos new Horiz Centrifugal motor Pumpset having discharge of 65 lps against a total speed 1450 rpm at WTP Alady. (From sump to Nariyanpara/ kaltho including soft starter	head of 125 M. suction head 5
	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 starter and from starter to motor	al requirement from panel board
	Supply of additional cable beyond the initial supply of 10Mtr. Additional	· · ·
	Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor	· · ·
3	Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor  Net Total Quantity	25.000 metre <b>Rs 27600.00</b> er conductor cable conforming o panel board etc. complete as p
	Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor  Net Total Quantity Say 25.000 metre @ Rs 1104.00 / metre  od55075/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper relevant IS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su	25.000 metre <b>Rs 27600.00</b> er conductor cable conforming panel board etc. complete as p upply shall be limited to the actu
	Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor  Net Total Quantity Say 25.000 metre @ Rs 1104.00 / metre  od55075/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper relevant IS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement.	25.000 metre <b>Rs 27600.00</b> er conductor cable conforming panel board etc. complete as p upply shall be limited to the actu
	Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor  Net Total Quantity Say 25.000 metre @ Rs 1104.00 / metre  od55075/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper relevant IS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement.  Net Total Quantity	25.000 metre Rs 27600.00 er conductor cable conforming panel board etc. complete as p upply shall be limited to the actu 20.000 metre Rs 22080.00 or) / manual means in foundation ), including dressing of sides and vated soil and disposal of surplice
3	Supply of additional cable beyond the initial supply of 10Mtr. Additional starter and from starter to motor  Net Total Quantity Say 25.000 metre @ Rs 1104.00 / metre  od55075/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper relevant IS code, for giving power connections to main switchboard to standards including end termination materials as per IE rules. The su requirement.  Net Total Quantity Say 20.000 metre @ Rs 1104.00 / metre  od55076/2020_2021 Earth work in excavation by mechanical means (Hydraulic excavator trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan ramming of bottoms, lift up to 1.5 m, including getting out the excavator	25.000 metre Rs 27600.00 er conductor cable conforming panel board etc. complete as p upply shall be limited to the actu 20.000 metre Rs 22080.00 or) / manual means in foundation ), including dressing of sides and vated soil and disposal of surple Rate as per DSR Observed dat

	2.8.1		
	Earth work in excavation by mechanical means (Hydraulic excavat		
	trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan	, .	-
	ramming of bottoms, lift up to 1.5 m, including getting out the excar	vated soil a	nd disposal of surpl
	excavated soil as directed, within a lead of 50 m.All kinds of soil Net Total Quantity	15 000 cum	
	-		
	Say 15.000 cum @ Rs 309.95 / cum		Rs 4649.25
6	od55077/2020_2021		
	Providing 350mm surge arrestor having test pressure 45Kg/cm2 including cost of specials such as 2 Nos. Tail piece, 2 Nos. Mechanica		
	inserting surge arrestor, jointing with flanged joints etc. including cost of	-	• • • •
	Observed data)	or ourgo arre	
	Net Total Quantity	1.000 No	
	Say 1.000 No @ Rs 600000.00 / No	R	s 600000.00
7	od55078/2020_2021		
	Cement concrete 1:2:4 using 20mm nominay size metal for anchore bl	ock includin	g charges of form wo
	and labour charges etc. complete (Rate as per DSR observed data)		
	Net Total Quantity	5.000 cum	
		8-1 C	
	Say 5.000 cum @ Rs 8941.83 / cum	F	Rs 44709.15
8	Provide Market Director	F	Rs 44709.15
8	od55079/2020_2021	<u> </u>	
8	Provide Market Director	(g/cm2 with	flanged ends includi
8	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 k	(g/cm2 with D/F CI sluic	flanged ends includi æ valve - 1 No. etc a
8	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 K all cost of materials such as 200mm air cushion valve - 1 No., 200mm	(g/cm2 with D/F CI sluic	flanged ends includi æ valve - 1 No. etc a
8	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 k all cost of materials such as 200mm air cushion valve - 1 No., 200mm all labour charges for fitting the same in position as directed by the o	(g/cm2 with D/F CI sluic departmenta	flanged ends includi æ valve - 1 No. etc a
8	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 k all cost of materials such as 200mm air cushion valve - 1 No., 200mm all labour charges for fitting the same in position as directed by the o DSR Observed data)	(g/cm2 with D/F CI sluic departmenta 1.000 No	flanged ends includi æ valve - 1 No. etc a
	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 k all cost of materials such as 200mm air cushion valve - 1 No., 200mm all labour charges for fitting the same in position as directed by the o DSR Observed data) Net Total Quantity Say 1.000 No @ Rs 409500.00 / No	(g/cm2 with D/F CI sluic departmenta 1.000 No	flanged ends includi ce valve - 1 No. etc a al officers.(Rate as p
8	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 k all cost of materials such as 200mm air cushion valve - 1 No., 200mm all labour charges for fitting the same in position as directed by the o DSR Observed data) Net Total Quantity	(g/cm2 with D/F CI sluid departmenta 1.000 No	flanged ends includi e valve - 1 No. etc a al officers.(Rate as p s 409500.00
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Centage Amount	0.00
Provision for GST payments (in %) @	18.0%
Amount reserved for GST payments	9657883.90
Total & Centage	63312794.45
Lumpsum for round off	7205.55
GRAND TOTAL Rs	63320000.00
Rounded Grand	Total Rs 6,33,20,000
Rupees Six Crore Thirty Three Lakh Tw	enty Thousand Only



## Kerala Water Authority PRICE