

KERALA WATER AUTHORITY, PH CIRCLE, THRISSUR

Work Name: Jala Jeevan Mission 2021-22- Augmentation of CWSS to Nattika Firka-PHASE II Providing Distribution Network and FHTC to Perinjanam Panchayath

Accepted Schedule

Sl. No.	Item Description	Quantity	Units	Estimate rate		TOTAL AMOUNT
				In fiures	In words	
1	Appendix A - Augmentable/Extendable (MVS) from Ongoing Scheme					
1.001	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	28788.421	cum	518.00	INR Five Hundred & Eighteen Only	14912402.08
1.002	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffice diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.	4000.000	metre	32.00	INR Thirty Two Only	128000.00
1.003	Dismantling manually /by mechanical means including stacking of serviceable material and disposal unserviceable material within 50meters lead asper direction of engineer- in- charge :Bituminous road	2120.000	sqm	42.00	INR Forty Two Only	89040.00
1.004	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	4857.000	metre	26.00	INR Twenty Six Only	126282.00

1.005	Fencing 1.50m high with two rows of casuarina poles (girth 15cm to 24cm) tied with coir yarn on vertical casuarina pole (girth 15cm to 24cm) fixed at 1.5m intervals. NEW DATA (Prepared based on PWD SDB - Item No.1009	3238.000	metre	50.00	INR Fifty Only	161900.00
1.006	Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered):Depth not exceeding 1.5 m	550.000	sqm	50.00	INR Fifty Only	27500.00
1.007	"Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 90 mm OD HDPE pipe"	30984.000	metre	111.01	INR One Hundred & Eleven and Paise One Only	3439533.84
1.008	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings.110 mm OD HDPE pipe NEW DATA	4422.000	metre	150.54	INR One Hundred & Fifty and Paise Fifty Four Only	665687.88
1.009	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 160 mm OD HDPE pipe NEW DATA	8665.000	metre	256.07	INR Two Hundred & Fifty Six and Paise Seven Only	2218846.55

1.01	Laying UPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials).75 mm nominal outer dia pipes.	7399.000	metre	103.59	INR One Hundred & Three and Paise Fifty Nine Only	766462.41
1.011	Laying UPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials).63 mm nominal outer dia pipes.	2443.000	metre	103.59	INR One Hundred & Three and Paise Fifty Nine Only	253070.37
1.012	Laying UPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials) 50 mm nominal outer dia pipes.	324.000	metre	56.63	INR Fifty Six and Paise Sixty Three Only	18348.12
1.013	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 150 mm dia nominal ore Observed Data derived from item no.18.12 of DAR	92.000	metre	320.52	INR Three Hundred & Twenty and Paise Fifty Two Only	29487.84
1.014	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 100 mm dia nominal bore Observed Data derived from item no.18.12 of DAR	44.000	metre	258.70	INR Two Hundred & Fifty Eight and Paise Seventy Only	11382.80
1.015	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore Data derived from item no.18.12.8 of DARData for 10 m	410.000	metre	229.47	INR Two Hundred & Twenty Nine and Paise Forty Seven Only	94082.70
1.016	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 65 mm dia nominal boreData derived from item no.18.12.7 of DARData for 10 m	74.000	metre	229.09	INR Two Hundred & Twenty Nine and Paise Nine Only	16952.66
1.017	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 50 mm dia nominal bore Observed Data derived from item no.18.12.6 of DARData for 10 m	24.000	metre	184.05	INR One Hundred & Eighty Four and Paise Five Only	4417.20

1.018	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 40 mm dia nominal bore Data derived from item no.18.12.5 of DARData for 10 m	3.000	metre	183.83	INR One Hundred & Eighty Three and Paise Eighty Three Only	551.49
1.019	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :150 mm diameter. Class I"Data derived from item no.18.31.3.1 of DAR	9.000	Nos	1320.79	INR One Thousand Three Hundred & Twenty and Paise Seventy Nine Only	11887.11
1.02	"Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :100 mm diameter. Class I"Data derived from item no.18.31.1.1of DAR	4.000	Nos	975.21	INR Nine Hundred & Seventy Five and Paise Twenty One Only	3900.84
1.021	"Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :80 mm diameter. Class I"Observed Data derived from item no.18.31.of DAR	30.000	Nos	646.78	INR Six Hundred & Forty Six and Paise Seventy Eight Only	19403.40
1.022	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :65 mm nominal bore	5.000	No	1926.78	INR One Thousand Nine Hundred & Twenty Six and Paise Seventy Eight Only	9633.90
1.023	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :50 mm nominal bore	2.000	No	1125.40	INR One Thousand One Hundred & Twenty Five and Paise Forty Only	2250.80
1.024	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :40 mm nominal bore	1.000	No	878.41	INR Eight Hundred & Seventy Eight and Paise Forty One Only	878.41
1.025	Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR	20.000	Nos	154.52	INR One Hundred & Fifty Four and Paise Fifty Two Only	3090.40
1.026	Dismantling and reconstructing RR Masonry in cement mortar of culvert/retaining wall	2.250	cum	3015.42	INR Three Thousand & Fifteen and Paise Forty Two Only	6784.70
1.027	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.	2.500	cum	3281.95	INR Three Thousand Two Hundred & Eighty One and Paise Ninety Five Only	8204.88

1.028	Taking Connection from the existing pipe line by using PVC/MS/CI Saddle or TEE including all labour charges, earthwork excavation, refilling, bailing out water, hire for tools etc. complete but excluding cost of materials 40mm to 90mm dia PVC pipes	20.000	No	1370.56	INR One Thousand Three Hundred & Seventy and Paise Fifty Six Only	27411.20
1.029	Taking Connection from the existing pipe line by using PVC/MS/CI Saddle or TEE including all labour charges, earthwork excavation, refilling, bailing out water, hire for tools etc. complete but excluding cost of materials 110mm to 160mm dia PVC Pipe	10.000	No	1934.99	INR One Thousand Nine Hundred & Thirty Four and Paise Ninety Nine Only	19349.90
1.03	Taking Connection from the existing pipe line by using PVC/MS/CI Saddle or TEE including all labour charges, earthwork excavation, refilling, bailing out water, hire for tools etc. complete but excluding cost of materials 200mm to 350mm dia DI Pipe	5.000	No	2741.11	INR Two Thousand Seven Hundred & Forty One and Paise Eleven Only	13705.55
1.031	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	44.929	cum	326.64	INR Three Hundred & Twenty Six and Paise Sixty Four Only	14675.61
1.032	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	2.305	cum	8104.31	INR Eight Thousand One Hundred & Four and Paise Thirty One Only	18680.43
1.033	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	16.056	cum	9447.32	INR Nine Thousand Four Hundred & Forty Seven and Paise Thirty Two Only	151686.17
1.034	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)	3.528	cum	9993.65	INR Nine Thousand Nine Hundred & Ninety Three and Paise Sixty Five Only	35257.60
1.035	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	30.962	sqm	368.85	INR Three Hundred & Sixty Eight and Paise Eighty Five Only	11420.33
1.036	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	125.280	sqm	788.92	INR Seven Hundred & Eighty Eight and Paise Ninety Two Only	98835.90

1.037	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	1566.720	kilogram	108.13	INR One Hundred & Eight and Paise Thirteen Only	169409.43
1.038	12 mm cement plaster of mix:	52.200	sqm	345.50	INR Three Hundred & Forty Five and Paise Fifty Only	18035.10
1.039	Providing Protection tube for sluice valve	42.000	No	4542.54	INR Four Thousand Five Hundred & Forty Two and	190786.68
1.04	Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.With material conforming to Grade - III (size range 26.5 mm to 0.075 mm) having CBR Value - 20	90.000	cum	2900.00	INR Two Thousand Nine Hundred Only	261000.00
2	PART II - Laying Distribution line - Cost of materials					
2.001	Supply of PE Pipe, PE100, PN8, 90mm dia, conforming to IS 4984/2016.	31140.000	metre	254.30	INR Two Hundred & Fifty Four and Paise Thirty Only	7918902.00
2.002	Supply of PE Pipe, PE100, PN8, 110mm dia, conforming to IS 4984/2016	4446.000	metre	382.88	INR Three Hundred & Eighty Two and Paise Eighty Eight Only	1702284.48
2.003	Supply of PE Pipe, PE100, PN8, 160mm dia, conforming to IS 4984/2016.	8707.000	metre	811.34	INR Eight Hundred & Eleven and Paise Thirty Four Only	7064337.38
2.004	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 75mm Dia..	7435.000	metre	172.07	INR One Hundred & Seventy Two and Paise Seven Only	1279340.45
2.005	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 63mm Dia..	2455.000	metre	117.63	INR One Hundred & Seventeen and Paise Sixty	288781.65
2.006	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 50mm Dia.	330.000	metre	78.66	INR Seventy Eight and Paise Sixty Six Only	25957.80
2.007	Supplying 150 mm GI pipe	92.000	metre	2477.00	INR Two Thousand Four Hundred & Seventy Seven Only	227884.00

2.008	Supplying 100 mm GI pipe	44.000	metre	1575.07	INR One Thousand Five Hundred & Seventy Five and Paise Seven Only	69303.08
2.009	Supplying 80 mm GI pipe	410.000	metre	1085.05	INR One Thousand & Eighty Five and Paise Five Only	444870.50
2.01	Supply of 65mm GI Pipe	74.000	metre	848.05	INR Eight Hundred & Forty Eight and Paise Five Only	62755.70
2.011	Supply of 50mm GI Pipe	24.000	metre	675.86	INR Six Hundred & Seventy Five and Paise Eighty Six Only	16220.64
2.012	Supply of 40mm GI Pipe	3.000	metre	498.61	INR Four Hundred & Ninety Eight and Paise Sixty One Only	1495.83
2.013	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 150mm.	9.000	No	7512.01	INR Seven Thousand Five Hundred & Twelve and Paise One Only	67608.09
2.014	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 100mm.	4.000	No	4804.86	INR Four Thousand Eight Hundred & Four and Paise Eighty Six Only	19219.44
2.015	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 80mm.	30.000	No	3603.49	INR Three Thousand Six Hundred & Three and Paise Forty Nine Only	108104.70
2.016	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	20.000	No	1063.43	INR One Thousand & Sixty Three and Paise Forty Three Only	21268.60
2.017	PVC Specials 3%	1.000	set	30000.00	INR Thirty Thousand Only	30000.00
2.018	Specials for PE Pipe(5%)	1.000	set	489986.20	INR Four Lakh Eighty Nine Thousand Nine Hundred & Eighty Six and Paise Twenty Only	489986.20

2.019	GI Specials 5%	1.000	set	30000.00	INR Thirty Thousand Only	30000.00
3	PART IV- Providing Service connections at various wards (FHTC)					
3.001	Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.	651.000	Nos	6950.00	INR Six Thousand Nine Hundred & Fifty Only	4524450.00

3.002	<p>Providing 15mm (1/2 inch) house connection with 15mm (1/2 inch) water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 20mm Indian Standard Class 6 uPVC pipe and uPVC / GM / Brass specials viz. brass ferrule, GM full way wheel valve, Elbow, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.</p>	651.000	Nos	7110.00	INR Seven Thousand One Hundred & Ten Only	4628610.00
3.003	<p>Providing additional length of house connection pipe using 20mm Indian Standard Class 6 uPVC pipe and specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers.</p>	6510.000	metre	207.06	INR Two Hundred & Seven and Paise Six Only	1347960.60
3.004	<p>Providing 15mm PVC Tap in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.</p>	1302.000	Nos	628.49	INR Six Hundred & Twenty Eight and Paise Forty Nine Only	818293.98

3.005	Providing 20mm (1/2 inch) PVC Air Valve in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.	651.000	Nos	413.19	INR Four Hundred & Thirteen and Paise Nineteen Only	268986.69
3.006	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffice diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.	2500.000	metre	33.48	INR Thirty Three and Paise Forty Eight Only	83700.00
3.007	Dismantling manually / by mechanical means and disposal of material within 50 metres lead as per direction of Engineer -in-Charge: Bituminous road	750.000	sqm	96.66	INR Ninety Six and Paise Sixty Six Only	72495.00
3.008	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	75.001	cum	8104.31	INR Eight Thousand One Hundred & Four and Paise Thirty One Only	607831.35
4	4 PART V- Street Main Extension					
4.001	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	1000.000	cum	500.00	INR Five Hundred Only	500000.00
4.002	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	300.000	metre	30.81	INR Thirty and Paise Eighty One Only	9243.00
4.003	Laying UPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials) 50 mm nominal outer dia pipes.	1000.000	metre	56.63	INR Fifty Six and Paise Sixty Three Only	56630.00

4.004	Laying UPVC pipes of class 2 to class 6 and specials, lowering to the trenches already made, placing in position aligning the pipe line to the lines and levels and jointing the pipes and specials with solvent cement and testing the pipe line with water to the required test pressure (excluding cost of pipes and specials).63 mm nominal outer dia pipes.	1000.000	metre	95.75	INR Ninety Five and Paise Seventy Five Only	95750.00
4.005	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 50mm Dia.	1000.000	metre	72.71	INR Seventy Two and Paise Seventy One Only	72710.00
4.006	Supply of uPVC Pipe, IS 4985: 2000 , 6kg/cm2, 63mm Dia..	1000.000	metre	108.74	INR One Hundred & Eight and Paise Seventy Four Only	108740.00
4.007	:Supply of PVC specials suitable for 63mm & 50mm 3%	1.000	L.S	5444.33	INR Five Thousand Four Hundred & Forty Four and Paise Thirty Three Only	5444.33
5	Strengthening of Existing OHSR at Palliyil Temple					
5.001	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	438.000	sqm	16.26	INR Sixteen and Paise Twenty Six Only	7121.88
5.002	Chipping and removing portions of existing RCC work carefully with out damaging the remaining structure and removing the debris within a distance of 150m	480.428	sqm	112.26	INR One Hundred & Twelve and Paise Twenty Six Only	53932.85
5.003	12 mm cement plaster finished with a floating coat of neat cement of mix:	916.366	sqm	420.00	INR Four Hundred & Twenty Only	384873.72
5.004	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	688.276	sqm	85.39	INR Eighty Five and Paise Thirty Nine Only	58771.89
5.005	Washing OHSR/GLSR using brooms, brushes and bleaching powder by engaging coolies, scrubbing twice, washing and cleaning using fresh water, including side wall, floor slab and columns, disposing the the slurry / waste materilas away from the immediate premises and within the initial lead of 50m from the periphery of the tank, without causing any damage to the exististing strucutre and installations, charges including the operation of valves, conveyance and hire charges of tools and as per the direction of the department officers etc. complete.	331.866	sqm	49.97	INR Forty Nine and Paise Ninety Seven Only	16583.34
5.006	Providing water proofing material in whole surface of tank floor sab in proportion recommended by the manufactures	331.866	sqm	1900.00	INR One Thousand Nine Hundred Only	630545.40

5.007	PU injection -Holes drilled on the wall/ceiling----- Whatever cracks observed and polyurethane grout(based on hydroxyl terminated hydrophobic polyol&isocyanate terminated hardness)is injected to the holes,allowing to expand and solidify on the cracks,removing the dents on the surface after finishing the work.The work shall carry guarantee for 10 years against any leakage.	22.000	No	3274.85	INR Three Thousand Two Hundred & Seventy Four and Paise Eighty Five Only	72046.70
5.008	Providing and fixing double scaffolding system (cup lock type) on the exterior side, upto seven story high made with 40 mm dia. M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required location with essential safety features for the workmen etc. complete as per directions and approval of Engineer- in Charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. Note:- This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done .	300.151	sqm	334.02	INR Three Hundred & Thirty Four and Paise Two Only	100256.44
5.009	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.	11.000	cum	2750.00	INR Two Thousand Seven Hundred & Fifty Only	30250.00
5.01	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	13.500	cum	326.64	INR Three Hundred & Twenty Six and Paise Sixty Four Only	4409.64
5.011	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	0.900	cum	8104.31	INR Eight Thousand One Hundred & Four and Paise Thirty One Only	7293.88

5.012	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level	6.092	cum	10354.89	INR Ten Thousand Three Hundred & Fifty Four and Paise Eighty Nine Only	63081.99
5.013	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above plinth level upto floor V level	20.701	cum	12172.20	INR Twelve Thousand One Hundred & Seventy Two and Paise Twenty Only	251976.71
5.014	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work above floor V level	10.318	cum	12535.97	INR Twelve Thousand Five Hundred & Thirty Five and Paise Ninety Seven Only	129346.14
5.015	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	3711.100	kilogram	108.13	INR One Hundred & Eight and Paise Thirteen Only	401281.24
5.016	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	8.320	sqm	368.85	INR Three Hundred & Sixty Eight and Paise Eighty Five Only	3068.83

5.017	Centering and shuttering including strutting, etc. and removal of form for:	104.763	sqm	897.35	INR Eight Hundred & Ninety Seven and Paise Thirty Five Only	94009.08
5.018	Centering and shuttering including strutting, etc. and removal of form for:	90.270	sqm	714.80	INR Seven Hundred & Fourteen and Paise Eighty Only	64525.00
5.019	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts	109.440	sqm	950.01	INR Nine Hundred & Fifty and Paise One Only	103969.09
5.02	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases)	23.545	sqm	805.78	INR Eight Hundred & Five and Paise Seventy Eight Only	18972.09
5.021	Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)	916.366	sqm	118.13	INR One Hundred & Eighteen and Paise Thirteen Only	108250.32
5.022	Supplying and fixing Mechanical water level indicators- Fabricating and fixing water level indicator with MS angle iron outer board frame and using 8mm steel sheet for indicating scale straightening ,cutting, welding with outer frame and hosting including applying a coat of iron primer and painting the letters marking the scale indicating measurements maintain proportional height of water level in tank with paints and fixing on the outer side of the side wall /pillar with necessary nut and bolt and arranging the indicating scale with plastic rope and pully with PVC /Rubber floating arrangements in required boyancy weight indicating the water level of the the tank upwards or downwards without any displacement and changing of level etc. complete asper the direction of the departmental officers	1.000	No	22190.00	INR Twenty Two Thousand One Hundred & Ninety Only	22190.00
Total in Figures						59756158.00
(Rupees Five crore Ninty Seven lakhs Fifty Six thousand One Hundred and Fifty Eight only)						

SUPERINTENDING ENGINEER

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1.02 Constructi item2	213
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2 Constructi item3	10
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3 Supplying item4	10
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