

## LETTER OF ACCEPTANCE

To,  
Sri/Smt M/s.A.DOMINIC  
PAN : ABWPA8383R

Your e-Tender No WRD/KWA-CE(CR)/TR/7347/2022\_5\_3\_2/1 dated 19-06-2023 for the Jal Jeevan Mission(JJM)-JJM CWSS to Marayoor and Kanthalloor Panchayths in Idukki District-Package II-Supply and laying clear water pumping mains, construction of sump cum pump house, construction of GLSR at various zone, supply and erection of pump sets, providing distribution system and providing FHTC to various zones- Marayoor and kanthalloor Panchayath ( Pambar River Zone)-General Civil Work has been accepted for a quoted amount of Rs. 374357413/- (Rupees Thirty Seven Crore Forty Three Lakh Fifty Seven Thousand Four Hundred and Thirteen only) based on rates quoted for individual items which is mentioned in the accompanying schedule. You are directed to submit the stamp GRN ID/Stamp paper, Performance Guarantee and Additional Performance Guarantee as mentioned below and execute an agreement and start the work within a week after getting necessary instructions from the Executive Engineer(Project Division Kattapana). The time allowed for executing agreement without fine will be 14 ( Fourteen) days from the date of issue of letter of acceptance and a further period of 10 ( Ten)days time will be allowed to execute the agreement after realizing a fine of Rs. 25000/- ( Twenty Five Thousand Only) .This fine shall be remitted in favour of the Managing Director, Kerala Water Authority, Account No - STSB 701011400000181, District Treasury, Thiruvananthapuram through e-treasury payment gateway.

1. stamp paper required value RS. 10000/- ( One Lakh Only) shall be submitted to the Agreement Authority. (subject to govt orders)

2. Before executing the agreement, you should deposit a Performance Guarantee of 5% of contract value, ie. Rs. 18717871/- (Rupees One Crore Eighty Seven Lakh Seventeen Thousand Eight Hundred and Seventy One only) and should be submitted within 14 ( Fourteen) days of receipt of this LOA (Letter of Acceptance) as below.

a) At least Fifty (50%) of Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of defect liability period.

b) Balance Performance Guarantee shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual to be submitted before executing agreement and shall be valid till 28 (twenty eight) days after the completion of defect liability of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

3. An Additional Performance Guarantee of Rs. 545389/- (Rupees Five Lakh Forty Five Thousand Three Hundred and Eighty Nine only) shall be also deposited for unbalanced price in addition to the normal Performance Guarantee in the following form and it should be to be submitted before executing agreement.

a) At least Fifty percent (50%) of Additional Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of the work.

b) Balance Additional Performance Guarantee Treasury shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual and shall be valid till 28(twenty eight) days after the completion of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

OR



a) Full amount of additional performance guarantee shall be accepted in case of guarantees issued by Kerala Financial Corporation

4. In addition to Performance Guarantee and Additional Performance Guarantee, Performance Security Deposit at the rate 2.5% of Bill amount will be deducted from running bills .

5. Solicitor's fee, if any, to be paid to the Law Officers of Government for scrutinising or drawing up of agreements- will be paid and the same recovered from the successful bidder.

6. You are requested to take an Insurance cover for this work for an amount of Rs. **500000** /- (**Rupees Five Lakh only**) and submit the same within 15 days of Start of work subjected to the provisions provided in the Bid Document. 0.2% of the Contract Amount will be deducted in the event of failure to submit the Insurance to the concerned Authorities as noted above. (The value shall be generally 0.5% of the Contract Value subject to a minimum of Rs. 2.00 lakh and maximum of Rs. 5.00 lakh.).

7. Engineering personnel in addition to other supporting staff as detailed below for tenure of the contract for works supervision shall be employed.

**Works Manager- 1no.(Civil Engineering Graduate with minimum 5 years experience), Site Engineers- 3 nos (2 nos for supervision and 1 no for Quality Control) - (Civil Engineering graduate with minimum 3 years experience), Supervisor- 4 nos (Civil Engineering Diploma holder with minimum 2 year experience) and Supervisor (Mechanical) (if required) - 1 no (Mechanical Engineering Diploma holder with minimum 2 year experience)**

8. The Contractor shall enter into a Contract Agreement with the Agreement Authority within 14 Fourteen workingdays from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority. The date of despatch of Letter of Acceptance through Contractors Portal shall be the date of Acceptance of Tender.

9. In the eventuality of failure to produce the original documents, or submit the performance security, or enter into agreement with the Agreement Authority within the specified time limit, the Bidder shall be debarred in future from participating in all Government Bids for three years and will be recommended for blacklisting by the competent authority. In such cases, the Government may rearrange the work otherwise or get it done departmentally at the risk and the cost of the Bidder and the loss so sustained by the Government can be realized from the Bidder under the Revenue recovery Act or otherwise the Government may decide.

10. The work should be completed in all respects within **1 year** from the date of handing over the site.

**11. Defect Liability period will be 2 years**

**12. The payment to the contractor for the two exorbitantly high quoted items viz. 2.012 and 2.060 shall be released only with the final bill of the work, in the interest of the Authority.**

13. All the details mentioned above shall be submitted to the Agreement Authority within 14 (fourteen) days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority.

14. All the terms and conditions of the Notice Inviting tenders and tender shall be binding on the Contractor.

**Pradeep V.K.(G14136)**  
**Superintending Engineer**



## ACCEPTED SCHEDULE

Name of Work: Jal Jeevan Mission (JJM)-JJM CWSS to Marayoor and Kanthalloor Panchayths in Idukki District-Package II-Supply and laying clear water pumping mains, construction of sump cum pump house, construction of GLSR at various zone, supply and erection of pump sets, providing distribution system and providing FHTC to various zones- Marayoor and kanthalloor Panchayath ( Pambar River Zone)-General Civil Work (DSR 2018 with Cost Index 141.53 )

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
<b>1</b>	<b>Con. of 1.5 LL capacity sump cum pump house at Karshanad Mission Vayal Booster -1</b>					
1.001	2.32 - Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	135.000	sqm	8.00	1080.00	Rupees One Thousand Zero Eighty Zero Only
1.002	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	95.400	cum	245.00	23373.00	Rupees Twenty Three Thousand Three Hundred Seventy Three Only
1.003	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	44.415	cum	340.00	15101.10	Rupees Fifteen Thousand One Hundred One And Ten paise Only
1.004	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	41.340	cum	8200.00	338988.00	Rupees Three Lakh Thirty Eight Thousand Nine Hundred Eighty Eight Only
1.005	4.1.3 - Providing and laying in position cement concrete of	18.660	cum	9100.00	169806.00	Rupees One Lakh Sixty Nine



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)					Thousand Eight Hundred Six Only
1.006	5.33.1 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level	26.487	cum	10750.00	284735.25	Rupees Two Lakh Eighty Four Thousand Seven Hundred Thirty Five And Twenty Five paise Only
1.007	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto	55.837	cum	12600.00	703546.20	Rupees Seven Lakh Three Thousand Five Hundred Forty Six And Twenty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	floor V level					
1.008	5.34.1 - Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	46.724	cum	94.00	4392.06	Rupees Four Thousand Three Hundred Ninety Two And Six paise Only
1.009	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	46.290	sqm	385.00	17821.65	Rupees Seventeen Thousand Eight Hundred Twenty One And Sixty Five paise Only
1.010	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	259.200	sqm	820.00	212544.00	Rupees Two Lakh Twelve Thousand Five Hundred Forty Four Only
1.011	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	118.528	sqm	930.00	110231.04	Rupees One Lakh Ten Thousand Two Hundred Thirty One And Four paise Only
1.012	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	115.452	sqm	740.00	85434.48	Rupees Eighty Five Thousand Four Hundred Thirty Four And Forty Eight paise Only
1.013	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	45.720	sqm	990.00	45262.80	Rupees Forty Five Thousand Two Hundred Sixty Two And Eighty Zero paise Only
1.014	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	9887.280	kilogram	112.00	1107375.36	Rupees Eleven Lakh Seven Thousand Three Hundred Seventy Five And Thirty Six paise Only
1.015	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for	26.084	cum	7300.00	190413.20	Rupees One Lakh Ninety Zero Thousand Four Hundred Thirteen And Twenty Zero



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.					paise Only
1.016	50.6.3.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete	4.019	cum	8800.00	35367.20	Rupees Thirty Five Thousand Three Hundred Sixty Seven And Twenty Zero paise Only
1.017	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	1020.704	sqm	360.00	367453.44	Rupees Three Lakh Sixty Seven Thousand Four Hundred Fifty Three And Forty Four paise Only
1.018	50.9.1.1 - Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood	0.224	cum	12200.00	2732.80	Rupees Two Thousand Seven Hundred Thirty Two And Eighty Zero paise Only
1.019	50.9.5.1 - Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood/ jack wood 35 mm thick shutters.	5.828	sqm	4400.00	25643.20	Rupees Twenty Five Thousand Six Hundred Forty Three And Twenty Zero paise Only
1.020	22.23.1 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts	130.284	sqm	645.00	84033.18	Rupees Eighty Four Thousand Zero Thirty Three And Eighteen paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm					
1.021	22.23.2 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on	49.500	sqm	500.00	24750.00	Rupees Twenty Four Thousand Seven Hundred Fifty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @ 1.10 kg per sqm.					
1.022	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer	456.120	sqm	80.00	36489.60	Rupees Thirty Six Thousand Four Hundred Eighty Nine And Sixty Zero paise Only
1.023	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work	456.120	sqm	170.00	77540.40	Rupees Seventy Seven Thousand Five Hundred Forty Zero And Forty Zero paise Only
1.024	13.71 - Lettering with black Japan pint of approved brand and manufacture	3000.000	per Letter per cm height	6.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
1.025	10.6.2 - Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.20 mm M.S. laths with 1.20 mm thick top cover	7.500	sqm	3750.00	28125.00	Rupees Twenty Eight Thousand One Hundred Twenty Five Only
1.026	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74	200.000	kg	177.00	35400.00	Rupees Thirty Five Thousand Four Hundred Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works					
1.027	18.31.3.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 150 mm diameter Class II	1.000	no	8600.00	8600.00	Rupees Eight Thousand Six Hundred Zero Only
1.028	18.31.4.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 200 mm diameter Class II	1.000	no	18000.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
1.029	18.26.1 - Providing and laying flanged C.I. Standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 : Upto 300 mm dia	1.093	quintal	10500.00	11476.50	Rupees Eleven Thousand Four Hundred Seventy Six And Fifty Zero paise Only
1.030	13.48.2 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturer's specifications: Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	6.660	sqm	175.00	1165.50	Rupees One Thousand One Hundred Sixty Five And Fifty Zero paise Only
1.031	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturer's specifications: Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and	22.500	sqm	160.00	3600.00	Rupees Three Thousand Six Hundred Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	manufacture					
1.032	100.36.1 - Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.	150.000	Kilo litre	205.00	30750.00	Rupees Thirty Zero Thousand Seven Hundred Fifty Zero Only
1.033	OD124039/2022-2023 - Supplying and providing water level indicator to the tank using scale fabricated out of 2 mm thick MS plate with in the frame work of suitable size MS square tube 160 mm pvc pipes for guiding the float necessary pulleys suitable nylon thread for connecting the float and level indicator painting, the entire structure and lettering including the charges of material and labour	1.000	1 nos	11500.00	11500.00	Rupees Eleven Thousand Five Hundred Zero Only
1.034	OD124040/2022-2023 - Supply and Fitting 100 mm CI Air Vent cowl	2.000	no	2800.00	5600.00	Rupees Five Thousand Six Hundred Zero Only
1.035	100.41.34 - Supplying and fixing Rectangular C.I. manhole cover 455mm x 610mm with frame (low duty) charges including all cost, labour charges etc., complete.	2.000	no	3200.00	6400.00	Rupees Six Thousand Four Hundred Zero Only
1.036	11.36 - Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	9.300	sqm	1375.00	12787.50	Rupees Twelve Thousand Seven Hundred Eighty Seven And Fifty Zero paise Only
1.037	11.38 - Providing and laying Ceramic glazed floor tiles of	1.800	sqm	1340.00	2412.00	Rupees Two Thousand Four



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	size 300x300 mm (thickness to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.					Hundred Twelve Only
1.038	50.17.1.1 - Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	1.000	no	72.00	72.00	Rupees Seventy Two Only
1.039	50.18.7.4.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm <sup>2</sup> - Internal work - Exposed on wall	30.000	metre	360.00	10800.00	Rupees Ten Thousand Eight Hundred Zero Only
1.040	50.18.7.5.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm <sup>2</sup> - Internal work-exposed on wall	10.000	metre	460.00	4600.00	Rupees Four Thousand Six Hundred Zero Only
1.041	50.18.8.1.2 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm <sup>2</sup>	12.000	metre	440.00	5280.00	Rupees Five Thousand Two Hundred Eighty Zero Only
1.042	50.18.9.7.1 - Providing and fixing PVC pipes includings	30.000	metre	390.00	11700.00	Rupees Eleven Thousand



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm <sup>2</sup>					Seven Hundred Zero Only
1.043	50.18.9.9.1 - Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm <sup>2</sup>	30.000	metre	585.00	17550.00	Rupees Seventeen Thousand Five Hundred Fifty Zero Only
1.044	17.2.1 - Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.000	each	7000.00	7000.00	Rupees Seven Thousand Zero Zero Only
1.045	17.7.11 - Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	1.000	each	5900.00	5900.00	Rupees Five Thousand Nine Hundred Zero Only
1.046	17.28.2.1 - Flexible pipe32 mm dia	2.000	each	135.00	270.00	Rupees Two Hundred Seventy Zero Only
1.047	17.60.1.1 - Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989	3.000	each	2000.00	6000.00	Rupees Six Thousand Zero Zero Only
1.048	18.57.1 - Providing and fixing PTMT, push cock of approved quality and	2.000	each	140.00	280.00	Rupees Two Hundred Eighty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	colour.15 mm nominal bore, 98 mm long, weighing not less than 75 gms					
1.049	50.18.9.20.4 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	4.000	no	89.00	356.00	Rupees Three Hundred Fifty Six Only
1.050	50.18.9.20.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	3.000	no	95.00	285.00	Rupees Two Hundred Eighty Five Only
1.051	50.18.9.22.1 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	4.000	no	120.00	480.00	Rupees Four Hundred Eighty Zero Only
1.052	50.18.9.22.4 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend	4.000	no	175.00	700.00	Rupees Seven Hundred Zero Only
1.053	50.18.9.22.5 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	3.000	no	185.00	555.00	Rupees Five Hundred Fifty Five Only
1.054	50.18.9.22.8 - Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	1.000	no	135.00	135.00	Rupees One Hundred Thirty Five Only
1.055	50.18.9.20.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl	1.000	no	85.00	85.00	Rupees Eighty Five Only
1.056	50.18.9.21.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 75 mm dia Vent cowl	1.000	no	95.00	95.00	Rupees Ninety Five Only
1.057	50.18.9.22.11 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes,including jointing with PVC solvent cement - 110 mm dia Socket/ coupling	4.000	no	170.00	680.00	Rupees Six Hundred Eighty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
1.058	9.117.2 - Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0mm ( $\pm 0.2$ mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. Extruded section profile size 42x50 mm	6.000	metre	350.00	2100.00	Rupees Two Thousand One Hundred Zero Only
1.059	9.120.1 - Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC $\text{C}$ ; channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm $\times$ 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed	1.680	sqm	3200.00	5376.00	Rupees Five Thousand Three Hundred Seventy Six Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture's specification & drawing.30 mm thick plain PVC door shutters					
1.060	OD157535/2022-2023 - Supply and erection of concrete Septic tank	1.000	no	15000.00	15000.00	Rupees Fifteen Thousand Zero Zero Only
1.061	OD157534/2022-2023 - Supply and fixing of 500 liter PVC tank	500.000	Litre	6.50	3250.00	Rupees Three Thousand Two Hundred Fifty Zero Only
1.062	OD158225/2022-2023 - Submitting application to KSEBL for power connection and power extension including preparation of drawing obtaining approval for drawings arranging inspection and obtaining ,power connection(necessary statutory fee will be paid by KWA)	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>2</b>	<b>Construction of 0.8LL capacity Sump cum pump house at Echampetti</b>					
2.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	21.000	cum	245.00	5145.00	Rupees Five Thousand One Hundred Forty Five Only
2.002	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out	26.325	cum	340.00	8950.50	Rupees Eight Thousand Nine Hundred Fifty Zero And Fifty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil					
2.003	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	27.075	cum	8250.00	223368.75	Rupees Two Lakh Twenty Three Thousand Three Hundred Sixty Eight And Seventy Five paise Only
2.004	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	13.223	cum	9200.00	121651.60	Rupees One Lakh Twenty One Thousand Six Hundred Fifty One And Sixty Zero paise Only
2.005	5.33.1 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level	20.177	cum	10750.00	216902.75	Rupees Two Lakh Sixteen Thousand Nine Hundred Two And Seventy Five paise Only
2.006	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but	38.969	cum	12700.00	494906.30	Rupees Four Lakh Ninety Four Thousand Nine Hundred Six And Thirty Zero paise Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					
2.007	5.34.1 - Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	33.222	cum	90.00	2989.98	Rupees Two Thousand Nine Hundred Eighty Nine And Ninety Eight paise Only
2.008	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	47.960	sqm	385.00	18464.60	Rupees Eighteen Thousand Four Hundred Sixty Four And Sixty Zero paise Only
2.009	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	168.000	sqm	810.00	136080.00	Rupees One Lakh Thirty Six Thousand Zero Eighty Zero Only
2.010	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	99.014	sqm	935.00	92578.09	Rupees Ninety Two Thousand Five Hundred Seventy Eight And Nine paise Only
2.011	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	77.544	sqm	725.00	56219.40	Rupees Fifty Six Thousand Two Hundred Nineteen And Forty Zero paise Only
2.012	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	30.828	sqm	9900.00	305197.20	Rupees Three Lakh Five Thousand One Hundred Ninety Seven And



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Twenty Zero paise Only
2.013	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	7097.520	kilogram	117.00	830409.84	Rupees Eight Lakh Thirty Zero Thousand Four Hundred Nine And Eighty Four paise Only
2.014	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	23.760	cum	7350.00	174636.00	Rupees One Lakh Seventy Four Thousand Six Hundred Thirty Six Only
2.015	50.6.3.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete	3.704	cum	8800.00	32595.20	Rupees Thirty Two Thousand Five Hundred Ninety Five And Twenty Zero paise Only
2.016	50.9.1.1 - Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood	0.156	cum	13000.00	2028.00	Rupees Two Thousand Zero Twenty Eight Only
2.017	50.9.5.1 - Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood/ jack wood 35 mm thick shutters.	4.005	sqm	4400.00	17622.00	Rupees Seventeen Thousand Six Hundred Twenty Two Only
2.018	22.23.1 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the	80.000	sqm	650.00	52000.00	Rupees Fifty Two Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @0.70 kg per sqm</p>					
2.019	<p>22.23.2 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage &amp; water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal)</p>	24.000	sqm	500.00	12000.00	Rupees Twelve Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @1.10 kg per sqm.					
2.020	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	852.975	sqm	350.00	298541.25	Rupees Two Lakh Ninety Eight Thousand Five Hundred Forty One And Twenty Five paise Only
2.021	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	755.571	sqm	80.00	60445.68	Rupees Sixty Zero Thousand Four Hundred Forty Five And Sixty Eight paise Only
2.022	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	755.571	sqm	165.00	124669.22	Rupees One Lakh Twenty Four Thousand Six Hundred Sixty Nine And Twenty Two paise Only
2.023	13.48.2 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	4.560	sqm	175.00	798.00	Rupees Seven Hundred Ninety Eight Only
2.024	13.48.3 - Finishing with	22.500	sqm	170.00	3825.00	Rupees Three



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture					Thousand Eight Hundred Twenty Five Only
2.025	13.71 - Lettering with black Japan pint of approved brand and manufacture	3000.000	per Letter per cm height	6.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
2.026	10.6.2 - Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover	7.500	sqm	3750.00	28125.00	Rupees Twenty Eight Thousand One Hundred Twenty Five Only
2.027	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	200.000	kg	175.00	35000.00	Rupees Thirty Five Thousand Zero Zero Only
2.028	18.31.1.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts,	1.000	no	5900.00	5900.00	Rupees Five Thousand Nine Hundred Zero



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 100 mm diameter Class II					Only
2.029	18.31.3.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 150 mm diameter Class II	1.000	no	8600.00	8600.00	Rupees Eight Thousand Six Hundred Zero Only
2.030	18.26.1 - Providing and laying flanged C.I. Standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :Upto 300 mm dia	1.290	quintal	1050.00	1354.50	Rupees One Thousand Three Hundred Fifty Four And Fifty Zero paise Only
2.031	100.36.1 - Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.	80.000	Kilo litre	215.00	17200.00	Rupees Seventeen Thousand Two Hundred Zero Only
2.032	OD133452/2022-2023 - Supplying and providing water level indicator to the tank using scale fabricated out of 2 mm thick MS plate with in the frame work of suitable size MS square tube 160 mm pvc pipes for guiding the float necessary pulleys suitable nylon thread for connecting the float and level indicator painting, the entire structure and lettering including the charges of material and labour	1.000	no	11500.00	11500.00	Rupees Eleven Thousand Five Hundred Zero Only
2.033	OD133454/2022-2023 - Supply and Fitting 100 mm CI Air Vent cowl	2.000	no	2850.00	5700.00	Rupees Five Thousand Seven Hundred Zero Only
2.034	100.41.34 - Supplying and fixing Rectangular C.I. manhole cover 455mm x 610mm with frame (low duty) charges including all cost, labour charges etc., complete.	2.000	no	3150.00	6300.00	Rupees Six Thousand Three Hundred Zero Only
2.035	11.36 - Providing and fixing Ist quality ceramic glazed wall	9.300	sqm	1380.00	12834.00	Rupees Twelve Thousand Eight



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.					Hundred Thirty Four Only
2.036	11.38 - Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	1.800	sqm	1340.00	2412.00	Rupees Two Thousand Four Hundred Twelve Only
2.037	50.17.1.1 - Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	1.000	no	70.00	70.00	Rupees Seventy Zero Only
2.038	50.18.7.4.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm <sup>2</sup> - Internal work - Exposed on wall	30.000	metre	360.00	10800.00	Rupees Ten Thousand Eight Hundred Zero Only
2.039	50.18.7.5.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10	10.000	metre	460.00	4600.00	Rupees Four Thousand Six Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Kgf/cm2- Internal work-exposed on wall					
2.040	50.18.8.1.2 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm2	12.000	metre	440.00	5280.00	Rupees Five Thousand Two Hundred Eighty Zero Only
2.041	50.18.9.7.1 - Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm2	30.000	metre	385.00	11550.00	Rupees Eleven Thousand Five Hundred Fifty Zero Only
2.042	50.18.9.9.1 - Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm2	30.000	metre	575.00	17250.00	Rupees Seventeen Thousand Two Hundred Fifty Zero Only
2.043	17.2.1 - Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.000	each	7000.00	7000.00	Rupees Seven Thousand Zero Zero Only
2.044	17.7.11 - Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	1.000	each	6000.00	6000.00	Rupees Six Thousand Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
2.045	17.28.2.1 - Flexible pipe 32 mm dia	2.000	each	135.00	270.00	Rupees Two Hundred Seventy Zero Only
2.046	17.60.1.1 - Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Sand cast iron S & S as per IS : 3989	3.000	each	2000.00	6000.00	Rupees Six Thousand Zero Zero Only
2.047	18.57.1 - Providing and fixing PTMT, push cock of approved quality and colour. 15 mm nominal bore, 98 mm long, weighing not less than 75 gms	2.000	each	140.00	280.00	Rupees Two Hundred Eighty Zero Only
2.048	50.18.9.20.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	4.000	no	90.00	360.00	Rupees Three Hundred Sixty Zero Only
2.049	50.18.9.20.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	3.000	no	95.00	285.00	Rupees Two Hundred Eighty Five Only
2.050	50.18.9.22.1 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	4.000	no	120.00	480.00	Rupees Four Hundred Eighty Zero Only
2.051	50.18.9.22.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend	4.000	no	175.00	700.00	Rupees Seven Hundred Zero Only
2.052	50.18.9.22.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	3.000	no	180.00	540.00	Rupees Five Hundred Forty Zero Only
2.053	50.18.9.22.8 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	1.000	no	135.00	135.00	Rupees One Hundred Thirty Five Only
2.054	50.18.9.20.7 - Providing and	1.000	no	85.00	85.00	Rupees Eighty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl					Five Only
2.055	50.18.9.21.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 75 mm dia Vent cowl	1.000	no	95.00	95.00	Rupees Ninety Five Only
2.056	50.18.9.22.11 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes,including jointing with PVC solvent cement - 110 mm dia Socket/ coupling	4.000	no	120.00	480.00	Rupees Four Hundred Eighty Zero Only
2.057	9.117.2 - Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance &plusmn;1 mm), with wall thickness 2.0mm (&plusmn;0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (&plusmn; 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer & # 3 9 ; s specification and direction of Engineer-in-chargeExtruded section profile size 42x50 mm	6.000	metre	360.00	2160.00	Rupees Two Thousand One Hundred Sixty Zero Only
2.058	9.120.1 - Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC & # 3 9 ; C & # 3 9 ; channel of size 30 mm thickness, 70 mm width out of whicj 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm	1.680	sqm	3250.00	5460.00	Rupees Five Thousand Four Hundred Sixty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture ; specification & drawing. 30 mm thick plain PVC door shutters					
2.059	OD157537/2022-2023 - Supply and erection of concrete Septic tank	1.000	no	15000.00	15000.00	Rupees Fifteen Thousand Zero Zero Only
2.060	OD157536/2022-2023 - Supply and fixing of 500 liter PVC tank	500.000	Litre	650.00	325000.00	Rupees Three Lakh Twenty Five Thousand Zero Zero Only
2.061	OD158226/2022-2023 - Submitting application to KSEBL for power connection and power extension including preparation of drawing obtaining approval for drawings arranging inspection and obtaining ,power connection(necessary statutory fee will be paid by KWA)	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>3</b>	<b>Construction of 1.5LL capacity sump cum pump house at Marayoor Gramam</b>					
3.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm	31.500	cum	240.00	7560.00	Rupees Seven Thousand Five Hundred Sixty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil					
3.002	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	46.980	cum	330.00	15503.40	Rupees Fifteen Thousand Five Hundred Three And Forty Zero paise Only
3.003	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	37.980	cum	8200.00	311436.00	Rupees Three Lakh Eleven Thousand Four Hundred Thirty Six Only
3.004	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	24.597	cum	9100.00	223832.70	Rupees Two Lakh Twenty Three Thousand Eight Hundred Thirty Two And Seventy Zero paise Only
3.005	5.33.1 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and	34.101	cum	10700.00	364880.70	Rupees Three Lakh Sixty Four Thousand Eight Hundred Eighty Zero And Seventy Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					
3.006	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level	63.386	cum	12600.00	798663.60	Rupees Seven Lakh Ninety Eight Thousand Six Hundred Sixty Three And Sixty Zero paise Only
3.007	5.34.1 - Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	49.200	cum	92.00	4526.40	Rupees Four Thousand Five Hundred Twenty Six And Forty Zero paise Only
3.008	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	58.960	sqm	385.00	22699.60	Rupees Twenty Two Thousand Six Hundred Ninety Nine And Sixty Zero paise Only
3.009	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	246.400	sqm	820.00	202048.00	Rupees Two Lakh Two Thousand Zero Forty Eight Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
3.010	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	171.301	sqm	930.00	159309.93	Rupees One Lakh Fifty Nine Thousand Three Hundred Nine And Ninety Three paise Only
3.011	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers	166.488	sqm	740.00	123201.12	Rupees One Lakh Twenty Three Thousand Two Hundred One And Twelve paise Only
3.012	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts	62.616	sqm	990.00	61989.84	Rupees Sixty One Thousand Nine Hundred Eighty Nine And Eighty Four paise Only
3.013	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	13648.180	kilogram	113.00	1542244.34	Rupees Fifteen Lakh Forty Two Thousand Two Hundred Forty Four And Thirty Four paise Only
3.014	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	27.790	cum	7350.00	204256.50	Rupees Two Lakh Four Thousand Two Hundred Fifty Six And Fifty Zero paise Only
3.015	50.6.3.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete	4.836	cum	8800.00	42556.80	Rupees Forty Two Thousand Five Hundred Fifty Six And Eighty Zero paise Only
3.016	50.9.1.1 - Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good	0.291	cum	12800.00	3724.80	Rupees Three Thousand Seven Hundred Twenty Four And Eighty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	quality Anjili wood /jack wood					
3.017	50.9.5.1 - Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood/ jack wood 35 mm thick shutters.	7.650	sqm	4400.00	33660.00	Rupees Thirty Three Thousand Six Hundred Sixty Zero Only
3.018	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	1404.344	sqm	350.00	491520.40	Rupees Four Lakh Ninety One Thousand Five Hundred Twenty And Forty Zero paise Only
3.019	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	1246.686	sqm	80.00	99734.88	Rupees Ninety Nine Thousand Seven Hundred Thirty Four And Eighty Eight paise Only
3.020	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	1246.686	sqm	170.00	211936.62	Rupees Two Lakh Eleven Thousand Nine Hundred Thirty Six And Sixty Two paise Only
3.021	13.48.2 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per m a n u f a c t u r e r s specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	8.760	sqm	170.00	1489.20	Rupees One Thousand Four Hundred Eighty Nine And Twenty Zero paise Only
3.022	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per m a n u f a c t u r e r s specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and	22.500	sqm	160.00	3600.00	Rupees Three Thousand Six Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	manufacture					
3.023	13.71 - Lettering with black Japan pint of approved brand and manufacture	3000.000	per Letter per cm height	6.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
3.024	10.6.2 - Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover	7.500	sqm	3700.00	27750.00	Rupees Twenty Seven Thousand Seven Hundred Fifty Zero Only
3.025	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	200.000	kg	170.00	34000.00	Rupees Thirty Four Thousand Zero Zero Only
3.026	22.23.1 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2	128.568	sqm	640.00	82283.52	Rupees Eighty Two Thousand Two Hundred Eighty Three And Fifty Two paise Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.For vertical surface two coats @0.70 kg per sqm					
3.027	22.23.2 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on	38.000	sqm	500.00	19000.00	Rupees Nineteen Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @ 1.10 kg per sqm.					
3.028	100.36.1 - Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set, hire for tanker lorry, tools and other appliances and cost of water etc. complete.	150.000	Kilo litre	205.00	30750.00	Rupees Thirty Zero Thousand Seven Hundred Fifty Zero Only
3.029	100.41.34 - Supplying and fixing Rectangular C.I. manhole cover 455mm x 610mm with frame (low duty) charges including all cost, labour charges etc., complete.	2.000	no	3100.00	6200.00	Rupees Six Thousand Two Hundred Zero Only
3.030	OD132304/2022-2023 - Supplying and providing water level indicator to the tank using scale fabricated out of 2 mm thick MS plate with in the frame work of suitable size MS square tube 160 mm pvc pipes for guiding the float necessary pulleys suitable nylon thread for connecting the float and level indicator painting, the entire structure and lettering including the charges of material and labour	1.000	no	11000.00	11000.00	Rupees Eleven Thousand Zero Zero Only
3.031	OD132283/2022-2023 - Supply and Fitting 100 mm CI Air Vent cowl	4.000	no	2800.00	11200.00	Rupees Eleven Thousand Two Hundred Zero Only
3.032	18.26.1 - Providing and laying flanged C.I. Standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 : Upto 300 mm dia	1.630	quintal	10500.00	17115.00	Rupees Seventeen Thousand One Hundred Fifteen Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
3.033	18.31.1.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 100 mm diameter Class II	1.000	no	5900.00	5900.00	Rupees Five Thousand Nine Hundred Zero Only
3.034	18.31.3.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 150 mm diameter Class II	2.000	no	8700.00	17400.00	Rupees Seventeen Thousand Four Hundred Zero Only
3.035	11.36 - Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	9.300	sqm	1350.00	12555.00	Rupees Twelve Thousand Five Hundred Fifty Five Only
3.036	11.38 - Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	1.800	sqm	1350.00	2430.00	Rupees Two Thousand Four Hundred Thirty Zero Only
3.037	50.17.1.1 - Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	1.000	no	70.00	70.00	Rupees Seventy Zero Only
3.038	50.18.7.4.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes	30.000	metre	350.00	10500.00	Rupees Ten Thousand Five Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	& fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm <sup>2</sup> - Internal work - Exposed on wall					
3.039	50.18.7.5.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm <sup>2</sup> - Internal work-exposed on wall	10.000	metre	460.00	4600.00	Rupees Four Thousand Six Hundred Zero Only
3.040	50.18.8.1.2 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm <sup>2</sup>	12.000	metre	440.00	5280.00	Rupees Five Thousand Two Hundred Eighty Zero Only
3.041	50.18.9.7.1 - Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm <sup>2</sup>	30.000	metre	385.00	11550.00	Rupees Eleven Thousand Five Hundred Fifty Zero Only
3.042	50.18.9.9.1 - Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm <sup>2</sup>	30.000	metre	580.00	17400.00	Rupees Seventeen Thousand Four Hundred Zero Only
3.043	17.2.1 - Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including	1.000	each	7000.00	7000.00	Rupees Seven Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid					
3.044	17.7.11 - Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	1.000	each	6000.00	6000.00	Rupees Six Thousand Zero Zero Only
3.045	17.28.2.1 - Flexible pipe32 mm dia	2.000	each	135.00	270.00	Rupees Two Hundred Seventy Zero Only
3.046	17.60.1.1 - Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989	3.000	each	2000.00	6000.00	Rupees Six Thousand Zero Zero Only
3.047	18.57.1 - Providing and fixing PTMT, push cock of approved quality and colour.15 mm nominal bore, 98 mm long, weighing not less than 75 gms	2.000	each	140.00	280.00	Rupees Two Hundred Eighty Zero Only
3.048	50.18.9.20.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	4.000	no	85.00	340.00	Rupees Three Hundred Forty Zero Only
3.049	50.18.9.20.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	3.000	no	95.00	285.00	Rupees Two Hundred Eighty Five Only
3.050	50.18.9.22.1 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	4.000	no	130.00	520.00	Rupees Five Hundred Twenty Only
3.051	50.18.9.22.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC	4.000	no	175.00	700.00	Rupees Seven Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	pipes, including jointing with PVC solvent cement- 110 mm dia Bend					
3.052	50.18.9.22.5 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	3.000	no	190.00	570.00	Rupees Five Hundred Seventy Zero Only
3.053	50.18.9.22.8 - Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	1.000	no	135.00	135.00	Rupees One Hundred Thirty Five Only
3.054	50.18.9.20.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl	1.000	no	85.00	85.00	Rupees Eighty Five Only
3.055	50.18.9.21.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 75 mm dia Vent cowl	1.000	no	95.00	95.00	Rupees Ninety Five Only
3.056	50.18.9.22.11 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes,including jointing with PVC solvent cement - 110 mm dia Socket/ coupling	4.000	no	125.00	500.00	Rupees Five Hundred Zero Only
3.057	9.117.2 - Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance &plusmn;1 mm), with wall thickness 2.0mm (&plusmn;0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (&plusmn; 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer & # 39 ; s specification and direction of Engineer-in-chargeExtruded section profile size 42x50 mm	6.000	metre	350.00	2100.00	Rupees Two Thousand One Hundred Zero Only
3.058	9.120.1 - Providing and fixing	1.680	sqm	3150.00	5292.00	Rupees Five



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC &#39;C&#39; channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mmx2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the &#39;C&#39; Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture &#39;s specification & drawing.30 mm thick plain PVC door shutters					Thousand Two Hundred Ninety Two Only
3.059	OD157583/2022-2023 - Supply and erection of concrete Septic tank	1.000	no	15000.00	15000.00	Rupees Fifteen Thousand Zero Zero Only
3.060	OD157582/2022-2023 - Supply and fixing of 500 liter PVC tank	500.000	Litre	6.50	3250.00	Rupees Three Thousand Two Hundred Fifty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
3.061	OD132282/2022-2023 - Submitting application to KSEBL for power connection and power extension including preparation of drawing obtaining approval for drawings arranging inspection and obtaining ,power connection(necessary statutory fee will be paid by KWA)	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>4</b>	<b>Construction of 0.2LL capacity sump cum pump house at Nellipetti Booster, Kammalamkudi Booster and Puthukkudy booster</b>					
4.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	122.220	cum	230.00	28110.60	Rupees Twenty Eight Thousand One Hundred Ten And Sixty Zero paise Only
4.002	OD165809/2022-2023 - Earthwork excavation by mechanical means (Hydrolic excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm in plan including dressing of sides and rammoing of bottom,lift 1.5 m up to 3m. including getting out the excavated soil and disposal of surplus excavated soil as directed with in a lead of 50 m Ordinary Rock	112.500	cum	800.00	90000.00	Rupees Ninety Zero Thousand Zero Zero Only
4.003	OD165810/2022-2023 - Earthwork excavation by mechanical means (Hydrolic excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm in plan including dressing of sides and rammoing of bottom,lift 3 m up to 4.5m. including getting out the excavated soil and disposal of surplus excavated soil as directed with in a lead of 50 m Ordinary Rock	26.250	cum	1000.00	26250.00	Rupees Twenty Six Thousand Two Hundred Fifty Zero Only
4.004	7.1.1 - Random rubble masonry with hard stone in foundation and plinth	9.720	cum	8200.00	79704.00	Rupees Seventy Nine Thousand Seven Hundred





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)					Four Only
4.005	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	11.250	cum	9000.00	101250.00	Rupees One Lakh One Thousand Two Hundred Fifty Zero Only
4.006	5.33.1 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level	25.776	cum	10500.00	270648.00	Rupees Two Lakh Seventy Zero Thousand Six Hundred Forty Eight Only
4.007	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete,	84.091	cum	12700.00	1067955.70	Rupees Ten Lakh Sixty Seven Thousand Nine Hundred Fifty Five And Seventy Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					
4.008	5.34.1 - Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	62.267	cum	90.00	5604.03	Rupees Five Thousand Six Hundred Four And Three paise Only
4.009	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	43.080	sqm	380.00	16370.40	Rupees Sixteen Thousand Three Hundred Seventy Zero And Forty Zero paise Only
4.010	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	295.800	sqm	800.00	236640.00	Rupees Two Lakh Thirty Six Thousand Six Hundred Forty Zero Only
4.011	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	236.232	sqm	900.00	212608.80	Rupees Two Lakh Twelve Thousand Six Hundred Eight And Eighty Zero paise Only
4.012	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	114.840	sqm	730.00	83833.20	Rupees Eighty Three Thousand Eight Hundred Thirty Three And Twenty Zero paise Only
4.013	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	128.448	sqm	990.00	127163.52	Rupees One Lakh Twenty Seven Thousand One Hundred Sixty Three And Fifty Two paise Only
4.014	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position	26368.080	kilogram	112.00	2953224.96	Rupees Twenty Nine Lakh Fifty Three Thousand Two Hundred



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more					Twenty Four And Ninety Six paise Only
4.015	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	47.908	cum	7300.00	349728.40	Rupees Three Lakh Forty Nine Thousand Seven Hundred Twenty Eight And Forty Zero paise Only
4.016	50.6.3.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete	1.710	cum	8800.00	15048.00	Rupees Fifteen Thousand Zero Forty Eight Only
4.017	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	1433.736	sqm	350.00	501807.60	Rupees Five Lakh One Thousand Eight Hundred Seven And Sixty Zero paise Only
4.018	50.9.1.1 - Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood	0.873	cum	12200.00	10650.60	Rupees Ten Thousand Six Hundred Fifty Zero And Sixty Zero paise Only
4.019	50.9.5.1 - Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood/ jack wood 35 mm thick shutters.	22.950	sqm	4400.00	100980.00	Rupees One Lakh Zero Nine Hundred Eighty Zero Only
4.020	22.23.1 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the	167.820	sqm	640.00	107404.80	Rupees One Lakh Seven Thousand Four Hundred Four And Eighty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @0.70 kg per sqm					Zero paise Only
4.021	22.23.2 - Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal)	48.000	sqm	500.00	24000.00	Rupees Twenty Four Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.For horizontal surface one coat @1.10 kg per sqm.					
4.022	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	1291.812	sqm	80.00	103344.96	Rupees One Lakh Three Thousand Three Hundred Forty Four And Ninety Six paise Only
4.023	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	1291.812	sqm	170.00	219608.04	Rupees Two Lakh Nineteen Thousand Six Hundred Eight And Four paise Only
4.024	13.71 - Lettering with black Japan pint of approved brand and manufacture	9000.000	per Letter per cm height	6.00	54000.00	Rupees Fifty Four Thousand Zero Zero Only
4.025	10.6.2 - Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming	15.000	sqm	3750.00	56250.00	Rupees Fifty Six Thousand Two Hundred Fifty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover					
4.026	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	450.000	kg	175.00	78750.00	Rupees Seventy Eight Thousand Seven Hundred Fifty Zero Only
4.027	18.31.1.2 - Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertion etc. (the tail pieces if required will be paid separately): 100 mm diameter Class II	3.000	no	5800.00	17400.00	Rupees Seventeen Thousand Four Hundred Zero Only
4.028	18.26.1 - Providing and laying flanged C.I. Standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :Upto 300 mm dia	2.520	quintal	10500.00	26460.00	Rupees Twenty Six Thousand Four Hundred Sixty Zero Only
4.029	13.48.2 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturer's specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	26.280	sqm	170.00	4467.60	Rupees Four Thousand Four Hundred Sixty Seven And Sixty Zero paise Only
4.030	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturer's specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm	63.000	sqm	160.00	10080.00	Rupees Ten Thousand Zero Eighty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture					
4.031	100.36.1 - Filling water with 5000 litre tankers fitted in lorry and conveying water from a distance of 5 km (average) to the reservoir site and pumping the water into the reservoir of height not less than 3 m using 5 HP diesel engine pump set , hire for tanker lorry, tools and other appliances and cost of water etc. complete.	120.000	Kilo litre	205.00	24600.00	Rupees Twenty Four Thousand Six Hundred Zero Only
4.032	OD133538/2022-2023 - Supplying and providing water level indicator to the tank using scale fabricated out of 2 mm thick MS plate with in the frame work of suitable size MS square tube 160 mm pvc pipes for guiding the float necessary pulleys suitable nylon thread for connecting the float and level indicator painting, the entire structure and lettering including the charges of material and labour	3.000	no	11250.00	33750.00	Rupees Thirty Three Thousand Seven Hundred Fifty Zero Only
4.033	100.41.34 - Supplying and fixing Rectangular C.I. manhole cover 455mm x 610mm with frame (low duty) charges including all cost, labour charges etc., complete.	6.000	no	3100.00	18600.00	Rupees Eighteen Thousand Six Hundred Zero Only
4.034	11.36 - Providing and fixing I st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	27.900	sqm	1350.00	37665.00	Rupees Thirty Seven Thousand Six Hundred Sixty Five Only
4.035	11.38 - Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness	5.400	sqm	1350.00	7290.00	Rupees Seven Thousand Two Hundred Ninety



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.					Zero Only
4.036	50.17.1.1 - Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	3.000	no	70.00	210.00	Rupees Two Hundred Ten Only
4.037	50.18.7.4.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm2- Internal work - Exposed on wall	90.000	metre	340.00	30600.00	Rupees Thirty Zero Thousand Six Hundred Zero Only
4.038	50.18.7.5.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm2- Internal work-exposed on wall	30.000	metre	450.00	13500.00	Rupees Thirteen Thousand Five Hundred Zero Only
4.039	50.18.8.1.2 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm2	36.000	metre	440.00	15840.00	Rupees Fifteen Thousand Eight Hundred Forty Zero Only
4.040	50.18.9.7.1 - Providing and fixing PVC pipes includings of pipes with one step PVC	90.000	metre	375.00	33750.00	Rupees Thirty Three Thousand Seven Hundred





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm <sup>2</sup>					Fifty Zero Only
4.041	50.18.9.9.1 - Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm <sup>2</sup>	90.000	metre	570.00	51300.00	Rupees Fifty One Thousand Three Hundred Zero Only
4.042	17.2.1 - Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	3.000	each	7000.00	21000.00	Rupees Twenty One Thousand Zero Zero Only
4.043	17.7.11 - Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	3.000	each	5900.00	17700.00	Rupees Seventeen Thousand Seven Hundred Zero Only
4.044	17.28.2.1 - Flexible pipe32 mm dia	6.000	each	135.00	810.00	Rupees Eight Hundred Ten Only
4.045	17.60.1.1 - Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989	9.000	each	2000.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
4.046	18.57.1 - Providing and fixing PTMT, push cock of approved quality and colour.15 mm nominal bore, 98 mm long, weighing not	6.000	each	135.00	810.00	Rupees Eight Hundred Ten Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	less than 75 gms					
4.047	50.18.9.20.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	12.000	no	85.00	1020.00	Rupees One Thousand Zero Twenty Only
4.048	50.18.9.20.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	9.000	no	90.00	810.00	Rupees Eight Hundred Ten Only
4.049	50.18.9.22.1 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	12.000	no	120.00	1440.00	Rupees One Thousand Four Hundred Forty Zero Only
4.050	50.18.9.22.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend	12.000	no	175.00	2100.00	Rupees Two Thousand One Hundred Zero Only
4.051	50.18.9.22.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	9.000	no	180.00	1620.00	Rupees One Thousand Six Hundred Twenty Only
4.052	50.18.9.22.8 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	3.000	no	135.00	405.00	Rupees Four Hundred Five Only
4.053	50.18.9.20.7 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl	3.000	no	85.00	255.00	Rupees Two Hundred Fifty Five Only
4.054	50.18.9.21.7 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 75 mm dia Vent cowl	3.000	no	95.00	285.00	Rupees Two Hundred Eighty Five Only
4.055	50.18.9.22.11 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes,including jointing with PVC solvent cement - 110 mm dia Socket/ coupling	12.000	no	120.00	1440.00	Rupees One Thousand Four Hundred Forty Zero Only
4.056	9.117.2 - Providing and fixing factory made uPVC door	18.000	metre	350.00	6300.00	Rupees Six Thousand Three



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0mm ( $\pm 0.2$ mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. Extruded section profile size 42x50 mm					Hundred Zero Only
4.057	9.120.1 - Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x	5.040	sqm	3200.00	16128.00	Rupees Sixteen Thousand One Hundred Twenty Eight Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture's specification & drawing.30 mm thick plain PVC door shutters					
4.058	OD157571/2022-2023 - Supply and erection of concrete Septic tank	3.000	no	15000.00	45000.00	Rupees Forty Five Thousand Zero Zero Only
4.059	OD157572/2022-2023 - Supply and fixing of 500 litre PVC tank	1500.000	Litre	6.50	9750.00	Rupees Nine Thousand Seven Hundred Fifty Zero Only
4.060	OD158236/2022-2023 - Submitting application to KSEBL for power connection and power extension including preparation of drawing obtaining approval for drawings arranging inspection and obtaining ,power connection(necessary statutory fee will be paid by KWA)	3.000	L.S	3000.00	9000.00	Rupees Nine Thousand Zero Zero Only
<b>5</b>	<b>Construction of 0.4LL capacity steel tank Near Van-dhan Building for Chembakkad-Thayanamkudi zone, Nellipettikudi,Kammalamkudi , Theerthmala and Puthukkudi</b>					
5.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	236.817	cum	240.00	56836.08	Rupees Fifty Six Thousand Eight Hundred Thirty Six And Eight paise Only
5.002	OD132261/2022-2023 - DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout (0.100kg/hole) etc complete	900.000	no	440.00	396000.00	Rupees Three Lakh Ninety Six Thousand Zero Zero Only
5.003	4.1.3 - Providing and laying	59.408	cum	9100.00	540612.80	Rupees Five



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)					Lakh Forty Zero Thousand Six Hundred Twelve And Eighty Zero paise Only
5.004	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)	12.717	cum	10200.00	129713.40	Rupees One Lakh Twenty Nine Thousand Seven Hundred Thirteen And Forty Zero paise Only
5.005	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	56.520	sqm	380.00	21477.60	Rupees Twenty One Thousand Four Hundred Seventy Seven And Sixty Zero paise Only
5.006	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	1526.040	kilogram	112.00	170916.48	Rupees One Lakh Seventy Zero Thousand Nine Hundred Sixteen And Forty Eight paise Only
5.007	OD124031/2022-2023 - Supplying, conveying and filling sand inside the platform for steel tank	22.259	cum	2000.00	44518.00	Rupees Forty Four Thousand Five Hundred Eighteen Only
5.008	OD124032/2022-2023 - Supply,installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 40000 L ,thickness of 0.6 mm, in multiple layers required height and multiple-layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body & the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level	200000.000	Litre	22.00	4400000.00	Rupees Forty Four Lakh Zero Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hot-dip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service TANK DIMENSIONS: The height of the Tank shall be of 3.6m . DESIGN LIFE: The tanks shall have a design life of 40 years . T A N K CONNECTIONS: Standard design inlet,outlet,overflow and scour valves should be provided.</p> <p>ii) Overflow connection including an Internal approved bell-mouth shaped</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>bends to maximize the overflow capacity. iii) One (1) scour drain outlet from the floor of the tank with isolation valve. TANK LINERS: Tank liners shall be purpose-designed and manufactured and shall comply to AS/NZS 4020 (Appendix A) of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to one-piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap. vi) The Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level,</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	to prevent stress on the liner welded joints, and thereby eliminate possibility of failure <b>C O R R O S S I O N PROTECTION.</b> The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shell,Steel wall,steel domed roof,Zinc Alum steel&#39;;Cost for Poly ethylene infinity liner ,Geo synthetic Fibre withfood grade plastics are used for inside coating and Support Arrangements,Cost for Fabricated items,attachments and accessories like steel ladder,Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut and bolts,Freight Charges,Erection Installation and commissioning of tank components.					
5.009	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	22.950	cum	8200.00	188190.00	Rupees One Lakh Eighty Eight Thousand One Hundred Ninety Zero Only
5.010	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	51.000	cum	7300.00	372300.00	Rupees Three Lakh Seventy Two Thousand Three Hundred Zero Only
5.011	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	544.000	sqm	350.00	190400.00	Rupees One Lakh Ninety Zero Thousand





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Four Hundred Zero Only
5.012	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	544.000	sqm	80.00	43520.00	Rupees Forty Three Thousand Five Hundred Twenty Only
5.013	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	544.000	sqm	160.00	87040.00	Rupees Eighty Seven Thousand Zero Forty Zero Only
5.014	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	750.000	kg	170.00	127500.00	Rupees One Lakh Twenty Seven Thousand Five Hundred Zero Only
5.015	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	22.500	sqm	160.00	3600.00	Rupees Three Thousand Six Hundred Zero Only
<b>6</b>	<b>Construction of 0.35LL capacity steel tank at Karimutti bridge for Alampetti zone</b>					
6.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	25.313	cum	245.00	6201.69	Rupees Six Thousand Two Hundred One And Sixty Nine paise Only
6.002	4.1.3 - Providing and laying	8.438	cum	9000.00	75942.00	Rupees Seventy



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)					Five Thousand Nine Hundred Forty Two Only
6.003	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	3.116	cum	10200.00	31783.20	Rupees Thirty One Thousand Seven Hundred Eighty Three And Twenty Zero paise Only
6.004	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	13.848	sqm	380.00	5262.24	Rupees Five Thousand Two Hundred Sixty Two And Twenty Four paise Only
6.005	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	373.920	kilogram	112.00	41879.04	Rupees Forty One Thousand Eight Hundred Seventy Nine And Four paise Only
6.006	OD124043/2022-2023 - Supplying,coveying & filling sand inside the platform for steel tank	6.995	cum	2000.00	13990.00	Rupees Thirteen Thousand Nine Hundred Ninety Zero Only
6.007	OD124044/2022-2023 - Supply ,installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 35000 L thickness of 0.6 mm, in multiple layers and required height and multiple-layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body & the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level	35000.000	Litre	22.00	770000.00	Rupees Seven Lakh Seventy Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hot-dip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service TANK DIMENSIONS: The height of the Tank shall be of 2.20m . DESIGN LIFE: The tanks shall have a design life of 40 years . T A N K CONNECTIONS: Standard design inlet,outlet,overflow and scour valves should be provided.</p> <p>ii) Overflow connection including an Internal approved bell-mouth shaped</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>bends to maximize the overflow capacity. iii) One (1) scour drain outlet from the floor of the tank with isolation valve. TANK LINERS: Tank liners shall be purpose-designed and manufactured and shall comply to AS/NZS 4020 (Appendix A) of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to one-piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap. vi) The Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level,</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	to prevent stress on the liner welded joints, and thereby eliminate possibility of failure <b>C O R R O S S I O N PROTECTION.</b> The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shell,Steel wall,steel domed roof,Zinc Alum steel&#39;;Cost for Poly ethylene infinity liner ,Geo synthetic Fibre withfood grade plastics are used for inside coating and Support Arrangements,Cost for Fabricated items,attachments and accessories like steel ladder,Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut and bolts,Freight Charges,Erection Installation and commissioning of tank components.					
6.008	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	5.940	cum	335.00	1989.90	Rupees One Thousand Nine Hundred Eighty Nine And Ninety Zero paise Only
6.009	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	5.940	cum	8200.00	48708.00	Rupees Forty Eight Thousand Seven Hundred Eight Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
6.010	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	13.200	cum	7250.00	95700.00	Rupees Ninety Five Thousand Seven Hundred Zero Only
6.011	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	140.800	sqm	350.00	49280.00	Rupees Forty Nine Thousand Two Hundred Eighty Zero Only
6.012	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	140.800	sqm	80.00	11264.00	Rupees Eleven Thousand Two Hundred Sixty Four Only
6.013	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	140.800	sqm	170.00	23936.00	Rupees Twenty Three Thousand Nine Hundred Thirty Six Only
6.014	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	150.000	kg	170.00	25500.00	Rupees Twenty Five Thousand Five Hundred Zero Only
6.015	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	4.500	sqm	165.00	742.50	Rupees Seven Hundred Forty Two And Fifty Zero paise Only
<b>7</b>	<b>Constnction of 0.5 LL capacity steel tank at Periyakudi and Kuthukalkudi road Booster</b>					
7.001	2.31 - Clearing jungle	121.000	sqm	16.00	1936.00	Rupees One



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					Thousand Nine Hundred Thirty Six Only
7.002	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	32.626	cum	240.00	7830.24	Rupees Seven Thousand Eight Hundred Thirty Zero And Twenty Four paise Only
7.003	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	10.876	cum	9000.00	97884.00	Rupees Ninety Seven Thousand Eight Hundred Eighty Four Only
7.004	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	5.087	cum	10000.00	50870.00	Rupees Fifty Zero Thousand Eight Hundred Seventy Zero Only
7.005	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	22.608	sqm	370.00	8364.96	Rupees Eight Thousand Three Hundred Sixty Four And Ninety Six paise Only
7.006	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	610.440	kilogram	112.00	68369.28	Rupees Sixty Eight Thousand Three Hundred Sixty Nine And Twenty Eight paise Only
7.007	OD124035/2022-2023 - Supplying,coveying & filling sand inside the platform for steel tank	8.904	cum	2000.00	17808.00	Rupees Seventeen Thousand Eight Hundred Eight



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Only
7.008	<p>OD124034/2022-2023 - Supply, installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 50000 L, thickness of 0.6 mm, in multiple layers, required height and multiple-layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body &amp; the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hot-dip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity.</p>	100000.000	Litre	19.00	1900000.00	Rupees Nineteen Lakh Zero Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service</p> <p><b>TANK DIMENSIONS:</b> The height of the Tank shall be of 4.3m.</p> <p><b>DESIGN LIFE:</b> The tanks shall have a design life of 40 years.</p> <p><b>TANK CONNECTIONS:</b> Standard design inlet, outlet, overflow and scour valves should be provided.</p> <p>ii) Overflow connection including an Internal approved bell-mouth shaped bends to maximize the overflow capacity.</p> <p>iii) One (1) scour drain outlet from the floor of the tank with isolation valve.</p> <p><b>TANK LINERS:</b> Tank liners shall be purpose-designed and manufactured and shall comply to AS/NZS 4020 (Appendix A) of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall:</p> <p>i) Be factory manufactured to one-piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized.</p> <p>ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v)</p> <p>All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap.</p> <p>vi) The</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby eliminate possibility of failure</p> <p><b>C O R R O S S I O N PROTECTION.</b> The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shell, Steel wall, steel domed roof, Zinc Alum steel; Cost for Poly ethylene infinity liner ,Geo synthetic Fibre with food grade plastics are used for inside coating and Support Arrangements, Cost for Fabricated items, attachments and accessories like steel ladder, Cost of Fabricated nozzles, over flow nozzles and drain arrangements, Cost for HDG nut and bolts, Freight Charges, Erection Installation and commissioning of tank components.</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
7.009	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	12.798	cum	330.00	4223.34	Rupees Four Thousand Two Hundred Twenty Three And Thirty Four paise Only
7.010	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	12.798	cum	8100.00	103663.80	Rupees One Lakh Three Thousand Six Hundred Sixty Three And Eighty Zero paise Only
7.011	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	28.440	cum	7200.00	204768.00	Rupees Two Lakh Four Thousand Seven Hundred Sixty Eight Only
7.012	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	303.360	sqm	350.00	106176.00	Rupees One Lakh Six Thousand One Hundred Seventy Six Only
7.013	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	303.360	sqm	80.00	24268.80	Rupees Twenty Four Thousand Two Hundred Sixty Eight And Eighty Zero paise Only
7.014	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	303.360	sqm	160.00	48537.60	Rupees Forty Eight Thousand Five Hundred Thirty Seven And Sixty Zero paise Only
7.015	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting,	300.000	kg	170.00	51000.00	Rupees Fifty One Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works					
7.016	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturer's specifications: Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	9.000	sqm	160.00	1440.00	Rupees One Thousand Four Hundred Forty Zero Only
<b>8</b>	<b>Construction of 0.3 LL capacity steel at Kuthukalkudi</b>					
8.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil	19.013	cum	240.00	4563.12	Rupees Four Thousand Five Hundred Sixty Three And Twelve paise Only
8.002	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	6.338	cum	9100.00	57675.80	Rupees Fifty Seven Thousand Six Hundred Seventy Five And Eighty Zero paise Only
8.003	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level: 1:1:5:3 (1 cement 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.480	cum	10250.00	25420.00	Rupees Twenty Five Thousand Four Hundred Twenty Only
8.004	5.9.1 - Centering and shuttering including strutting, etc. and removal of form	11.022	sqm	380.00	4188.36	Rupees Four Thousand One Hundred Eighty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	for:Foundations, footings, bases of columns, etc for mass concrete					Eight And Thirty Six paise Only
8.005	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	297.600	kilogram	112.00	33331.20	Rupees Thirty Three Thousand Three Hundred Thirty One And Twenty Zero paise Only
8.006	OD124037/2022-2023 - Supplying,coveying & filling sand inside the platform for steel tank	4.205	cum	2000.00	8410.00	Rupees Eight Thousand Four Hundred Ten Only
8.007	OD124038/2022-2023 - Supply,installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 30000 L, thickness of 0.6 mm, in multiple layers, required capacity and height and multiple-layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body & the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of	30000.000	Litre	24.00	720000.00	Rupees Seven Lakh Twenty Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hot-dip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service TANK DIMENSIONS: The height of the Tank shall be 2.90 m. DESIGN LIFE: The tanks shall have a design life of 40 years . T A N K CONNECTIONS: Standard design inlet,outlet,overflow and scour valves should be provided.</p> <p>ii) Overflow connection including an Internal approved bell-mouth shaped bends to maximize the overflow capacity. iii) One (1) scour drain outlet from the floor of the tank with isolation valve.TANK LINERS:Tank liners shall be purpose-designed and manufactured and shall comply to AS/NZS 4020 (Appendix A )of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to one-piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metalocene encapsulating tape welded over the overlap. vi) The Metalocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby eliminate possibility of failure</p> <p><b>C O R R O S S I O N PROTECTION.</b> The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shel l,Steel wall,steel domed roof,Zinc Alum</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	steel&#39;;Cost for Poly ethylene infinity liner ,Geo synthetic Fibre withfood grade plastics are used for inside coating and Support Arrangements, Cost for Fabricated items,attachments and accessories like steel ladder, Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut and bolts,Freight Charges,Erection Installation and commissioning of tank components.					
8.008	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	5.940	cum	340.00	2019.60	Rupees Two Thousand Zero Nineteen And Sixty Zero paise Only
8.009	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	5.940	cum	8200.00	48708.00	Rupees Forty Eight Thousand Seven Hundred Eight Only
8.010	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	13.200	cum	7400.00	97680.00	Rupees Ninety Seven Thousand Six Hundred Eighty Zero Only
8.011	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	140.800	sqm	350.00	49280.00	Rupees Forty Nine Thousand Two Hundred Eighty Zero Only
8.012	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable	140.800	sqm	80.00	11264.00	Rupees Eleven Thousand Two Hundred Sixty Four Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	cement primer					
8.013	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	140.800	sqm	170.00	23936.00	Rupees Twenty Three Thousand Nine Hundred Thirty Six Only
8.014	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	150.000	kg	170.00	25500.00	Rupees Twenty Five Thousand Five Hundred Zero Only
8.015	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturer specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	4.500	sqm	160.00	720.00	Rupees Seven Hundred Twenty Only
<b>9</b>	<b>Construction of 0.25 LL capacity steel tank at Kavakudi , Karshanadu and near Alampetti treck guide stand break pressure</b>					
9.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	114.065	cum	240.00	27375.60	Rupees Twenty Seven Thousand Three Hundred Seventy Five And Sixty Zero paise Only
9.002	OD132372/2022-2023 - DOWEL BARS_ Supplying and providing MS dowel bars of size 16 mm dia , 200 cm long including drilling holes of 20 mm dia to a depth of 100 cm in rock and filling the gap with cement grout	600.000	no	450.00	270000.00	Rupees Two Lakh Seventy Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	(0.100kg/hole) etc complete					
9.003	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	30.101	cum	9100.00	273919.10	Rupees Two Lakh Seventy Three Thousand Nine Hundred Nineteen And Ten paise Only
9.004	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)	7.821	cum	10250.00	80165.25	Rupees Eighty Zero Thousand One Hundred Sixty Five And Twenty Five paise Only
9.005	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	34.759	sqm	380.00	13208.42	Rupees Thirteen Thousand Two Hundred Eight And Forty Two paise Only
9.006	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	938.520	kilogram	110.00	103237.20	Rupees One Lakh Three Thousand Two Hundred Thirty Seven And Twenty Zero paise Only
9.007	OD124061/2022-2023 - Supplying,coveying & filling sand inside the platform for steel tank	14.119	cum	1900.00	26826.10	Rupees Twenty Six Thousand Eight Hundred Twenty Six And Ten paise Only
9.008	OD124062/2022-2023 - Supply,installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 25000 L thichness of 0.6 mm, in multiple layers as required for the capacity and height of the tank and multiple-layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body & the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with	75000.000	Litre	24.00	1800000.00	Rupees Eighteen Lakh Zero Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hot-dip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at the top, of minimum 2 mm thickness.Tanks shall be properly flushed out with clean water prior to being brought into service TANK DIMENSIONS: The height of the Tank shall be of 2.20m .DESIGN LIFE: The tanks shall have a design life of 40 years . T A N K CONNECTIONS: Standard design inlet,outlet,overflow and scour valves should be</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>provided.</p> <p>ii) Overflow connection including an Internal approved bell-mouth shaped bends to maximize the overflow capacity. iii) One (1) scour drain outlet from the floor of the tank with isolation valve.</p> <p><b>TANK LINERS:</b> Tank liners shall be purpose-designed and manufactured and shall comply to AS/NZS 4020 (Appendix A )of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to one-piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap. vi) The Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby eliminate possibility of failure <b>C O R R O S S I O N PROTECTION.</b> The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shel l,Steel wall,steel domed roof,Zinc Alum steel&#39;;Cost for Poly ethylene infinity liner ,Geo synthetic Fibre withfood grade plastics are used for inside coating and Support Arrangements,Cost for Fabricated items,attachments and accessories like steel ladder,Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut and bolts,Freight Charges,Erection Installation and commissioning of tank components.					
9.009	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	15.552	cum	330.00	5132.16	Rupees Five Thousand One Hundred Thirty Two And Sixteen paise Only
9.010	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12	15.552	cum	8200.00	127526.40	Rupees One Lakh Twenty Seven Thousand Five Hundred Twenty Six And



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)					Forty Zero paise Only
9.011	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	34.560	cum	7300.00	252288.00	Rupees Two Lakh Fifty Two Thousand Two Hundred Eighty Eight Only
9.012	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	254.720	sqm	350.00	89152.00	Rupees Eighty Nine Thousand One Hundred Fifty Two Only
9.013	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	254.720	sqm	80.00	20377.60	Rupees Twenty Thousand Three Hundred Seventy Seven And Sixty Zero paise Only
9.014	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	254.720	sqm	160.00	40755.20	Rupees Forty Zero Thousand Seven Hundred Fifty Five And Twenty Zero paise Only
9.015	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	450.000	kg	170.00	76500.00	Rupees Seventy Six Thousand Five Hundred Zero Only
9.016	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per m a n u f a c t u r e r s specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	13.500	sqm	160.00	2160.00	Rupees Two Thousand One Hundred Sixty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
<b>10</b>	<b>Construction of 1.0 LL capacity steel tank at Kovilkadavu- Edakkadu</b>					
10.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	22.050	cum	240.00	5292.00	Rupees Five Thousand Two Hundred Ninety Two Only
10.002	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	7.350	cum	9000.00	66150.00	Rupees Sixty Six Thousand One Hundred Fifty Zero Only
10.003	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	3.116	cum	10200.00	31783.20	Rupees Thirty One Thousand Seven Hundred Eighty Three And Twenty Zero paise Only
10.004	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	13.848	sqm	380.00	5262.24	Rupees Five Thousand Two Hundred Sixty Two And Twenty Four paise Only
10.005	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	373.920	kilogram	110.00	41131.20	Rupees Forty One Thousand One Hundred Thirty One And Twenty Zero paise Only
10.006	OD132579/2022-2023 - Supplying,coveying & filling sand inside the platform for steel tank	6.995	cum	2000.00	13990.00	Rupees Thirteen Thousand Nine Hundred Ninety Zero Only
10.007	OD132578/2022-2023 - Supply,installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a	100000.000	Litre	12.00	1200000.00	Rupees Twelve Lakh Zero Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>capacity of 100000 L(1Nos.) thickness of 0.6 mm, in multiple layers as required for the capacity and height of the tank and multiple-layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body &amp; the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hot-dip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at</p>					





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service TANK DIMENSIONS: The height of the Tank shall be of 5.7m. DESIGN LIFE: The tanks shall have a design life of 40 years. TANK CONNECTIONS: Standard design inlet, outlet, overflow and scour valves should be provided.</p> <p>ii) Overflow connection including an Internal approved bell-mouth shaped bends to maximize the overflow capacity. iii) One (1) scour drain outlet from the floor of the tank with isolation valve. TANK LINERS: Tank liners shall be purpose-designed and manufactured and shall comply to AS/NZS 4020 (Appendix A) of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to one-piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap. vi) The Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby eliminate possibility of failure</p> <p><b>CORROSION PROTECTION.</b> The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shell, Steel wall, steel domed roof, Zinc Alum steel; Cost for Poly ethylene infinity liner, Geo synthetic Fibre with food grade plastics are used for inside coating and Support Arrangements, Cost for Fabricated items, attachments and accessories like steel ladder, Cost of Fabricated nozzles, over flow nozzles and drain arrangements, Cost for HDG nut and bolts, Freight Charges, Erection Installation and commissioning of tank components.</p>					
10.008	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including	5.940	cum	330.00	1960.20	Rupees One Thousand Nine Hundred Sixty Zero And Twenty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					
10.009	7.1.1 - Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	5.940	cum	8200.00	48708.00	Rupees Forty Eight Thousand Seven Hundred Eight Only
10.010	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	13.200	cum	7300.00	96360.00	Rupees Ninety Six Thousand Three Hundred Sixty Zero Only
10.011	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	140.800	sqm	350.00	49280.00	Rupees Forty Nine Thousand Two Hundred Eighty Zero Only
10.012	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	140.800	sqm	80.00	11264.00	Rupees Eleven Thousand Two Hundred Sixty Four Only
10.013	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	140.800	sqm	160.00	22528.00	Rupees Twenty Two Thousand Five Hundred Twenty Eight Only
10.014	10.25.2 - Item Shifted to Sub head 14 as item 14.73 Item Shifted to head 14 as item 14.74 Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	150.000	kg	175.00	26250.00	Rupees Twenty Six Thousand Two Hundred Fifty Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
10.015	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	4.500	sqm	160.00	720.00	Rupees Seven Hundred Twenty Only
<b>11</b>	<b>Constuction of Pump house at Periyakudi,Kovilkadavu- Edakkadu and Karshanadu</b>					
11.001	2.33.1 - Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 30 cm girth up to and including 60 cm girth	10.000	each	500.00	5000.00	Rupees Five Thousand Zero Zero Only
11.002	2.31 - Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	483.000	sqm	16.00	7728.00	Rupees Seven Thousand Seven Hundred Twenty Eight Only
11.003	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	121.500	cum	325.00	39487.50	Rupees Thirty Nine Thousand Four Hundred Eighty Seven And Fifty Zero paise Only
11.004	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	30.713	cum	9000.00	276417.00	Rupees Two Lakh Seventy Six Thousand Four Hundred Seventeen Only
11.005	5.33.1 - Providing and laying	41.567	cum	10500.00	436453.50	Rupees Four



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					Lakh Thirty Six Thousand Four Hundred Fifty Three And Fifty Zero paise Only
11.006	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level	51.632	cum	12500.00	645400.00	Rupees Six Lakh Forty Five Thousand Four Hundred Zero Only
11.007	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	138.240	sqm	380.00	52531.20	Rupees Fifty Two Thousand Five Hundred Thirty One And Twenty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
11.008	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	226.608	sqm	900.00	203947.20	Rupees Two Lakh Three Thousand Nine Hundred Forty Seven And Twenty Zero paise Only
11.009	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers	456.936	sqm	700.00	319855.20	Rupees Three Lakh Nineteen Thousand Eight Hundred Fifty Five And Twenty Zero paise Only
11.010	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts	159.840	sqm	950.00	151848.00	Rupees One Lakh Fifty One Thousand Eight Hundred Forty Eight Only
11.011	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	13047.860	kilogram	110.00	1435264.60	Rupees Fourteen Lakh Thirty Five Thousand Two Hundred Sixty Four And Sixty Zero paise Only
11.012	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement: 6 coarse sand) etc complete.	39.942	cum	7300.00	291576.60	Rupees Two Lakh Ninety One Thousand Five Hundred Seventy Six And Sixty Zero paise Only
11.013	50.6.3.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 ( 1 cement : 6 coarse sand) including cost of scaffolding complete	7.758	cum	8800.00	68270.40	Rupees Sixty Eight Thousand Two Hundred Seventy Zero And Forty Zero paise Only
11.014	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	1550.412	sqm	340.00	527140.08	Rupees Five Lakh Twenty Seven Thousand One Hundred Forty Zero And Eight paise Only
11.015	50.9.1.1 - Providing wood work in frames of doors, windows, clerestory windows	1.382	cum	13000.00	17966.00	Rupees Seventeen Thousand Nine



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood					Hundred Sixty Six Only
11.016	50.9.5.1 - Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood/ jack wood 35 mm thick shutters.	39.353	sqm	4400.00	173153.20	Rupees One Lakh Seventy Three Thousand One Hundred Fifty Three And Twenty Zero paise Only
11.017	10.6.2 - Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover	16.500	sqm	3700.00	61050.00	Rupees Sixty One Thousand Zero Fifty Zero Only
11.018	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	1550.412	sqm	75.00	116280.90	Rupees One Lakh Sixteen Thousand Two Hundred Eighty Zero And Ninety Zero paise Only
11.019	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	1550.412	sqm	170.00	263570.04	Rupees Two Lakh Sixty Three Thousand Five Hundred Seventy Zero And Four paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
11.020	13.48.2 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	45.180	sqm	170.00	7680.60	Rupees Seven Thousand Six Hundred Eighty Zero And Sixty Zero paise Only
11.021	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	54.000	sqm	165.00	8910.00	Rupees Eight Thousand Nine Hundred Ten Only
11.022	13.71 - Lettering with black Japan pint of approved brand and manufacture	9000.000	per Letter per cm height	6.00	54000.00	Rupees Fifty Four Thousand Zero Zero Only
11.023	11.36 - Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	27.900	sqm	1300.00	36270.00	Rupees Thirty Six Thousand Two Hundred Seventy Zero Only
11.024	11.38 - Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of	5.400	sqm	1300.00	7020.00	Rupees Seven Thousand Zero Twenty Only





Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.					
11.025	50.17.1.1 - Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	3.000	no	70.00	210.00	Rupees Two Hundred Ten Only
11.026	50.18.7.4.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm <sup>2</sup> - Internal work - Exposed on wall	90.000	metre	350.00	31500.00	Rupees Thirty One Thousand Five Hundred Zero Only
11.027	50.18.7.5.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm <sup>2</sup> - Internal work-exposed on wall	30.000	metre	460.00	13800.00	Rupees Thirteen Thousand Eight Hundred Zero Only
11.028	50.18.8.1.2 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm <sup>2</sup>	36.000	metre	440.00	15840.00	Rupees Fifteen Thousand Eight Hundred Forty Zero Only
11.029	50.18.9.7.1 - Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm <sup>2</sup>	90.000	metre	385.00	34650.00	Rupees Thirty Four Thousand Six Hundred Fifty Zero Only
11.030	50.18.9.9.1 - Providing and fixing PVC pipes includings	90.000	metre	580.00	52200.00	Rupees Fifty Two Thousand



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm <sup>2</sup>					Two Hundred Zero Only
11.031	17.2.1 - Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	3.000	each	7000.00	21000.00	Rupees Twenty One Thousand Zero Zero Only
11.032	17.7.11 - Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	3.000	each	6000.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
11.033	17.28.2.1 - Flexible pipe32 mm dia	6.000	each	135.00	810.00	Rupees Eight Hundred Ten Only
11.034	17.60.1.1 - Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989	9.000	each	2000.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
11.035	18.57.1 - Providing and fixing PTMT, push cock of approved quality and colour.15 mm nominal bore, 98 mm long, weighing not less than 75 gms	6.000	each	135.00	810.00	Rupees Eight Hundred Ten Only
11.036	50.18.9.20.4 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	12.000	no	85.00	1020.00	Rupees One Thousand Zero Twenty Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
11.037	50.18.9.20.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	9.000	no	90.00	810.00	Rupees Eight Hundred Ten Only
11.038	50.18.9.22.1 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	12.000	no	115.00	1380.00	Rupees One Thousand Three Hundred Eighty Zero Only
11.039	50.18.9.22.4 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend	12.000	no	175.00	2100.00	Rupees Two Thousand One Hundred Zero Only
11.040	50.18.9.22.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	9.000	no	185.00	1665.00	Rupees One Thousand Six Hundred Sixty Five Only
11.041	50.18.9.22.8 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	3.000	no	130.00	390.00	Rupees Three Hundred Ninety Zero Only
11.042	50.18.9.20.7 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl	3.000	no	80.00	240.00	Rupees Two Hundred Forty Zero Only
11.043	50.18.9.21.7 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 75 mm dia Vent cowl	3.000	no	95.00	285.00	Rupees Two Hundred Eighty Five Only
11.044	50.18.9.22.11 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes,including jointing with PVC solvent cement - 110 mm dia Socket/ coupling	12.000	no	120.00	1440.00	Rupees One Thousand Four Hundred Forty Zero Only
11.045	9.117.2 - Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance &plusmn;1 mm), with wall thickness 2.0mm (&plusmn;0.2 mm), corners of the door frame to be jointed with galvanized	18.000	metre	350.00	6300.00	Rupees Six Thousand Three Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (&plusmn; 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer & # 3 9 ; s specification and direction of Engineer-in-charge Extruded section profile size 42x50 mm					
11.046	9.120.1 - Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC & # 3 9 ; C & # 3 9 ; channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the & # 3 9 ; C & # 3 9 ; Channel	5.040	sqm	3250.00	16380.00	Rupees Sixteen Thousand Three Hundred Eighty Zero Only



Sl No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture & specification & drawing.30 mm thick plain PVC door shutters					
11.047	OD157835/2022-2023 - Supply and erection of concrete Septic tank	3.000	no	15000.00	45000.00	Rupees Forty Five Thousand Zero Zero Only
11.048	OD157836/2022-2023 - Supply and fixing of 500 liter PVC tank	1500.000	Litre	6.00	9000.00	Rupees Nine Thousand Zero Zero Only
11.049	OD158199/2022-2023 - Submitting application to KSEBL for power connection and power extension including preparation of drawing obtaining approval for drawings arranging inspection and obtaining ,power connection(necessary statutory fee will be paid by KWA)	3.000	L.S	3000.00	9000.00	Rupees Nine Thousand Zero Zero Only
<b>12</b>	<b>Constuction of Pump house at Kuthukal kudi road Booster</b>					
12.001	2.33.1 - Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 30 cm girth up to and including 60 cm girth	3.000	each	500.00	1500.00	Rupees One Thousand Five Hundred Zero Only
12.002	2.31 - Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	161.000	sqm	15.00	2415.00	Rupees Two Thousand Four Hundred Fifteen Only
12.003	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead	54.000	cum	325.00	17550.00	Rupees Seventeen Thousand Five Hundred Fifty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	of 50 m.All kinds of soil					
12.004	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	17.585	cum	9000.00	158265.00	Rupees One Lakh Fifty Eight Thousand Two Hundred Sixty Five Only
12.005	5.33.1 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.All work upto plinth level	20.967	cum	10500.00	220153.50	Rupees Two Lakh Twenty Thousand One Hundred Fifty Three And Fifty Zero paise Only
12.006	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum.	30.559	cum	12500.00	381987.50	Rupees Three Lakh Eighty One Thousand Nine Hundred Eighty Seven And Fifty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level					
12.007	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	62.400	sqm	360.00	22464.00	Rupees Twenty Two Thousand Four Hundred Sixty Four Only
12.008	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	149.512	sqm	900.00	134560.80	Rupees One Lakh Thirty Four Thousand Five Hundred Sixty Zero And Eighty Zero paise Only
12.009	5.9.5 - Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	184.320	sqm	700.00	129024.00	Rupees One Lakh Twenty Nine Thousand Zero Twenty Four Only
12.010	5.9.6 - Centering and shuttering including strutting, etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	70.464	sqm	975.00	68702.40	Rupees Sixty Eight Thousand Seven Hundred Two And Forty Zero paise Only
12.011	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more	7213.640	kilogram	110.00	793500.40	Rupees Seven Lakh Ninety Three Thousand Five Hundred Zero And Forty Zero paise Only
12.012	50.6.1.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 (1 cement: 6 coarse sand) etc complete.	22.556	cum	7300.00	164658.80	Rupees One Lakh Sixty Four Thousand Six Hundred Fifty Eight And Eighty Zero paise Only
12.013	50.6.3.2 - Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10 cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level for 10 cm thick wall in : CM 1:6 (1 cement : 6 coarse sand) including cost of scaffolding complete	3.996	cum	8800.00	35164.80	Rupees Thirty Five Thousand One Hundred Sixty Four And Eighty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
12.014	13.1.1 - 12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)	940.852	sqm	350.00	329298.20	Rupees Three Lakh Twenty Nine Thousand Two Hundred Ninety Eight And Twenty Zero paise Only
12.015	50.9.1.1 - Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood	0.649	cum	13000.00	8437.00	Rupees Eight Thousand Four Hundred Thirty Seven Only
12.016	50.9.5.1 - Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood/ jack wood 35 mm thick shutters.	18.585	sqm	4400.00	81774.00	Rupees Eighty One Thousand Seven Hundred Seventy Four Only
12.017	10.6.2 - Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover	8.750	sqm	3700.00	32375.00	Rupees Thirty Two Thousand Three Hundred Seventy Five Only
12.018	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable	940.852	sqm	75.00	70563.90	Rupees Seventy Zero Thousand Five Hundred Sixty Three And Ninety





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	cement primer					Zero paise Only
12.019	13.60.1 - Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work	940.852	sqm	165.00	155240.58	Rupees One Lakh Fifty Five Thousand Two Hundred Forty Zero And Fifty Seven paise Only
12.020	13.48.2 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per m a n u f a c t u r e r s specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	21.360	sqm	165.00	3524.40	Rupees Three Thousand Five Hundred Twenty Four And Forty Zero paise Only
12.021	13.48.3 - Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per m a n u f a c t u r e r s specifications:Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	18.000	sqm	160.00	2880.00	Rupees Two Thousand Eight Hundred Eighty Zero Only
12.022	13.71 - Lettering with black Japan pint of approved brand and manufacture	3000.000	per Letter per cm height	6.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
12.023	11.36 - Providing and fixing I st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	9.300	sqm	1300.00	12090.00	Rupees Twelve Thousand Zero Ninety Zero Only
12.024	11.38 - Providing and laying	1.800	sqm	1300.00	2340.00	Rupees Two



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of Ist quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.					Thousand Three Hundred Forty Zero Only
12.025	50.17.1.1 - Supplying and fixing Stainless steel soap dish including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	1.000	no	70.00	70.00	Rupees Seventy Zero Only
12.026	50.18.7.4.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm <sup>2</sup> - Internal work - Exposed on wall	30.000	metre	350.00	10500.00	Rupees Ten Thousand Five Hundred Zero Only
12.027	50.18.7.5.1 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm <sup>2</sup> - Internal work-exposed on wall	10.000	metre	450.00	4500.00	Rupees Four Thousand Five Hundred Zero Only
12.028	50.18.8.1.2 - Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge Concealed work, including cutting chases and making good the wall etc. 15 mm pipe 10kgf/cm <sup>2</sup>	12.000	metre	440.00	5280.00	Rupees Five Thousand Two Hundred Eighty Zero Only
12.029	50.18.9.7.1 - Providing and	30.000	metre	380.00	11400.00	Rupees Eleven



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 6Kgf/cm <sup>2</sup>					Thousand Four Hundred Zero Only
12.030	50.18.9.9.1 - Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm <sup>2</sup>	30.000	metre	580.00	17400.00	Rupees Seventeen Thousand Four Hundred Zero Only
12.031	17.2.1 - Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.000	each	7000.00	7000.00	Rupees Seven Thousand Zero Zero Only
12.032	17.7.11 - Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	1.000	each	5700.00	5700.00	Rupees Five Thousand Seven Hundred Zero Only
12.033	17.28.2.1 - Flexible pipe32 mm dia	2.000	each	135.00	270.00	Rupees Two Hundred Seventy Zero Only
12.034	17.60.1.1 - Providing and fixing trap of self cleansing design with screwed down or hinged grating without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outletSand cast iron S & S as per IS : 3989	3.000	each	2000.00	6000.00	Rupees Six Thousand Zero Zero Only
12.035	18.57.1 - Providing and fixing PTMT, push cock of	2.000	each	135.00	270.00	Rupees Two Hundred



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	approved quality and colour.15 mm nominal bore, 98 mm long, weighing not less than 75 gms					Seventy Zero Only
12.036	50.18.9.20.4 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia Bend	4.000	no	85.00	340.00	Rupees Three Hundred Forty Zero Only
12.037	50.18.9.20.5 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes including jointing with PVC solvent cement - 63x63x63 mm dia Tee	3.000	no	90.00	270.00	Rupees Two Hundred Seventy Zero Only
12.038	50.18.9.22.1 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 110 mm dia Elbow	4.000	no	120.00	480.00	Rupees Four Hundred Eighty Zero Only
12.039	50.18.9.22.4 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend	4.000	no	170.00	680.00	Rupees Six Hundred Eighty Zero Only
12.040	50.18.9.22.5 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes including jointing with PVC solvent cement 110x110x110 mm dia Tee	3.000	no	180.00	540.00	Rupees Five Hundred Forty Zero Only
12.041	50.18.9.22.8 - Providing and fixing PVC moulded fittings /accessories for Rigid PVC pipes, including jointing with PVC solvent cement -110 mm dia Vent cowl	1.000	no	130.00	130.00	Rupees One Hundred Thirty Zero Only
12.042	50.18.9.20.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 63 mm dia vent cowl	1.000	no	80.00	80.00	Rupees Eighty Zero Only
12.043	50.18.9.21.7 - Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement - 75 mm dia Vent cowl	1.000	no	90.00	90.00	Rupees Ninety Zero Only
12.044	50.18.9.22.11 - Providing and fixing PVC moulded fittings/accessories for Rigid PVC pipes,including jointing with PVC solvent cement - 110 mm dia Socket/ coupling	4.000	no	120.00	480.00	Rupees Four Hundred Eighty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
12.045	9.117.2 - Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0mm ( $\pm 0.2$ mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. Extruded section profile size 42x50 mm	6.000	metre	335.00	2010.00	Rupees Two Thousand Zero Ten Only
12.046	9.120.1 - Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC $\text{C}$ ; channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm $\times$ 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed	1.680	sqm	3200.00	5376.00	Rupees Five Thousand Three Hundred Seventy Six Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	to the styles & rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture ; specification & drawing.30 mm thick plain PVC door shutters					
12.047	OD157834/2022-2023 - Supply and erection of concrete Septic tank	1.000	no	15000.00	15000.00	Rupees Fifteen Thousand Zero Zero Only
12.048	OD157833/2022-2023 - Supply and fixing of 500 litre PVC tank	500.000	Litre	6.50	3250.00	Rupees Three Thousand Two Hundred Fifty Zero Only
12.049	OD158200/2022-2023 - Submitting application to KSEBL for power connection and power extension including preparation of drawing obtaining approval for drawings arranging inspection and obtaining ,power connection(necessary statutory fee will be paid by KWA)	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>13</b>	<b>Supplying and laying CWPM and CWGM- Cost of materials</b>					
13.001	100.98.115 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 100mm Dia.	28613.000	metre	1480.00	42347240.00	Rupees Four Crore Twenty Three Lakh Forty Seven Thousand Two Hundred Forty Zero Only
13.002	100.98.116 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia.	9178.000	metre	2250.00	20650500.00	Rupees Two Crore Six Lakh Fifty Zero Thousand Five Hundred Zero Only
13.003	100.98.440 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	40.000	no	6000.00	240000.00	Rupees Two Lakh Forty Zero Thousand Zero Zero Only
13.004	100.98.441 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size	36.000	no	6200.00	223200.00	Rupees Two Lakh Twenty Three Thousand Two Hundred



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	40mm.					Zero Only
13.005	100.98.481 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 80mm.	20.000	no	7000.00	140000.00	Rupees One Lakh Forty Zero Thousand Zero Zero Only
13.006	100.98.482 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Hand Wheel PN 1.6, Size 100mm.	6.000	no	9500.00	57000.00	Rupees Fifty Seven Thousand Zero Zero Only
13.007	100.98.429 - Supply of CI Non Return Valve, Conforming to IS 5312 Part I - 1984, PN 1.6, Size 100mm.	12.000	no	9000.00	108000.00	Rupees One Lakh Eight Thousand Zero Zero Only
13.008	100.98.431 - Supply of CI Non Return Valve, Conforming to IS 5312 Part I - 1984, PN 1.0, Size 150mm.	4.000	no	13000.00	52000.00	Rupees Fifty Two Thousand Zero Zero Only
<b>14</b>	<b>Supplying and laying CWPM and CWGM-Working charges</b>					
14.001	100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	9210.270	cum	700.00	6447189.00	Rupees Sixty Four Lakh Forty Seven Thousand One Hundred Eighty Nine Only
14.002	100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock.	6750.162	cum	880.00	5940142.56	Rupees Fifty Nine Lakh Forty Zero Thousand One Hundred Forty Two And Fifty Six paise Only
14.003	100.2.7 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and	2250.054	cum	1300.00	2925070.20	Rupees Twenty Nine Lakh Twenty Five Thousand Zero



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited.					Seventy Zero And Twenty Zero paise Only
14.004	100.4.1 - Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m <sup>3</sup> of blasting)	900.060	cum	3700.00	3330222.00	Rupees Thirty Three Lakh Thirty Zero Thousand Two Hundred Twenty Two Only
14.005	100.1.10 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth exceeding 1.5m but not exceeding 3m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Hard Rock Requiring Blasting.	1349.994	cum	1270.00	1714492.38	Rupees Seventeen Lakh Fourteen Thousand Four Hundred Ninety Two And Thirty Eight paise Only
14.006	100.8.1 - Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.	18000.000	metre	27.00	486000.00	Rupees Four Lakh Eighty Six Thousand Zero Zero Only
14.007	100.59.1 - Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any	70.000	metre	30.00	2100.00	Rupees Two Thousand One Hundred Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.					
14.008	OD124053/2022-2023 - Dismantling manually including disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charge:Bituminous road	11924.500	sqm	92.00	1097054.00	Rupees Ten Lakh Ninety Seven Thousand Zero Fifty Four Only
14.009	100.14.1 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 100mm diameter Ductile Iron Class K-9 Pipes.	30603.000	metre	67.00	2050401.00	Rupees Twenty Lakh Fifty Zero Thousand Four Hundred One Only
14.010	100.14.2 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 150mm diameter Ductile Iron Class K-9 Pipes.	9998.000	metre	100.00	999800.00	Rupees Nine Lakh Ninety Nine Thousand Eight Hundred Zero Only
14.011	100.31.1.1 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 80mm diameter, Class I.	20.000	no	670.00	13400.00	Rupees Thirteen Thousand Four Hundred Zero Only
14.012	100.31.1.2 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 100mm diameter, Class I.	18.000	no	1000.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
14.013	100.31.1.4 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces,	4.000	no	1300.00	5200.00	Rupees Five Thousand Two Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	if required, will be paid separately): 150mm diameter, Class I.					
14.014	100.32.1 - Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 25mm Single Acting Air Valve.	40.000	no	160.00	6400.00	Rupees Six Thousand Four Hundred Zero Only
14.015	100.32.2 - Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 40mm Single Acting Air Valve.	36.000	no	190.00	6840.00	Rupees Six Thousand Eight Hundred Forty Zero Only
14.016	18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia	259.830	quintal	23000.00	5976090.00	Rupees Fifty Nine Lakh Seventy Six Thousand Zero Ninety Zero Only
14.017	18.70.1 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:100 mm dia pipes	5100.000	joint	120.00	612000.00	Rupees Six Lakh Twelve Thousand Zero Zero Only
14.018	18.70.2 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:150 mm dia pipes	1610.000	joint	200.00	322000.00	Rupees Three Lakh Twenty Two Thousand Zero Zero Only
14.019	18.30.2 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:100 mm diameter pipe	12.000	no	355.00	4260.00	Rupees Four Thousand Two Hundred Sixty Zero Only
14.020	18.30.4 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:150 mm diameter pipe	6.000	no	440.00	2640.00	Rupees Two Thousand Six Hundred Forty Zero Only
14.021	OD124054/2022-2023 - Labour for cutting D.I. pipe with steel saw.100 mm diameter D.I. pipe	285.000	Each Cut	195.00	55575.00	Rupees Fifty Five Thousand Five Hundred Seventy Five Only
14.022	OD124055/2022-2023 -	90.000	no	370.00	33300.00	Rupees Thirty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Labour for cutting Ductile Iron pipe with steel saw.150 mm diameter Ductile Iron. pipe					Three Thousand Three Hundred Zero Only
14.023	100.35.1 - Testing 100mm DI/CI pipeline with potable water to the required test pressure 100 mm dia	30603.000	metre	25.00	765075.00	Rupees Seven Lakh Sixty Five Thousand Zero Seventy Five Only
14.024	100.35.2 - Testing 150mm DI/CI pipeline with potable water to the required test pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA	9998.000	metre	33.00	329934.00	Rupees Three Lakh Twenty Nine Thousand Nine Hundred Thirty Four Only
14.025	100.37.5.1 - In situ fabrication of M.S. pipes of size 100mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.	2550.000	metre	4500.00	11475000.00	Rupees One Crore Fourteen Lakh Seventy Five Thousand Zero Zero Only
14.026	100.37.5.2 - Fabricating M.S. flanges of diameter 100mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.	30.000	no	1250.00	37500.00	Rupees Thirty Seven Thousand Five Hundred Zero Only
14.027	100.37.5.3 - Cutting 100mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	70.000	no	125.00	8750.00	Rupees Eight Thousand Seven Hundred Fifty Zero Only
14.028	100.37.5.4 - Welding 100mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	70.000	no	480.00	33600.00	Rupees Thirty Three Thousand Six Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
14.029	100.37.5.5 - Grinding cut and weld edges of 100mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	70.000	no	90.00	6300.00	Rupees Six Thousand Three Hundred Zero Only
14.030	100.37.6.1 - In situ fabrication of M.S. pipes of size 150mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.	1000.000	metre	5200.00	5200000.00	Rupees Fifty Two Lakh Zero Zero Zero Only
14.031	100.37.6.2 - Fabricating M.S. flanges of diameter 150mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.	12.000	no	1650.00	19800.00	Rupees Nineteen Thousand Eight Hundred Zero Only
14.032	100.37.6.3 - Cutting 150mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	25.000	no	180.00	4500.00	Rupees Four Thousand Five Hundred Zero Only
14.033	100.37.6.4 - Welding 150mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	25.000	no	650.00	16250.00	Rupees Sixteen Thousand Two Hundred Fifty Zero Only
14.034	100.37.6.5 - Grinding cut and weld edges of 150mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	25.000	no	130.00	3250.00	Rupees Three Thousand Two Hundred Fifty Zero Only
14.035	OD124058/2022-2023 - Supply, erection of 150mm Mechanical flow meter of	3.000	no	31000.00	93000.00	Rupees Ninety Three Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Woltsman type confirming ISO 4046 class B of ARAD/ZENNIER/REYCHEM RPG/ITRON make and shall be tested and certified by FCRI Palakkad and product shall have warranty for at least 2 years					
14.036	OD124059/2022-2023 - Supply, erection of 100mm Mechanical flow meter of Woltsman type confirming ISO 4046 class B of ARAD/ZENNIER/REYCHEM RPG/ITRON make and shall be tested and certified by FCRI Palakkad and product shall have warranty for at least 2 years	15.000	no	19000.00	285000.00	Rupees Two Lakh Eighty Five Thousand Zero Zero Only
14.037	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	291.600	cum	330.00	96228.00	Rupees Ninety Six Thousand Two Hundred Twenty Eight Only
14.038	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	13.500	cum	9000.00	121500.00	Rupees One Lakh Twenty One Thousand Five Hundred Zero Only
14.039	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)	103.140	cum	10000.00	1031400.00	Rupees Ten Lakh Thirty One Thousand Four Hundred Zero Only
14.040	5.1.3 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of	296.320	cum	9500.00	2815040.00	Rupees Twenty Eight Lakh Fifteen Thousand Zero



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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)					Forty Zero Only
14.041	4.3.2 - Centering and shuttering including strutting, propping etc. and removal of form work for:Retaining walls, return walls, (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	2107.200	sqm	800.00	1685760.00	Rupees Sixteen Lakh Eighty Five Thousand Six Hundred Sixty Zero Only
14.042	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	14177.600	kilogram	112.00	1587891.20	Rupees Fifteen Lakh Eighty Seven Thousand Eight Hundred Ninety One And Twenty Zero paise Only
<b>15</b>	<b>Road Restoration Charge (Morth)- CWPM &amp; CWGM</b>					
15.001	3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m	280.000	cum	50.00	14000.00	Rupees Fourteen Thousand Zero Zero Only
15.002	4.2.A.1 - Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method	140.000	cum	3400.00	476000.00	Rupees Four Lakh Seventy Six Thousand Zero Zero Only
15.003	4.12 - Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by	140.000	cum	3600.00	504000.00	Rupees Five Lakh Four Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.					
15.004	5.1.a - Providing and applying primer coat with bitumen emulsion ( SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.	1500.000	sqm	75.00	112500.00	Rupees One Lakh Twelve Thousand Five Hundred Zero Only
15.005	5.2.b - Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.	1500.000	sqm	15.00	22500.00	Rupees Twenty Two Thousand Five Hundred Zero Only
15.006	5.3.2.a - Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)	75.000	cum	9500.00	712500.00	Rupees Seven Lakh Twelve Thousand Five Hundred Zero Only
15.007	5.2.a - Providing and applying tack coat with bitumen emulsion( RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.	1500.000	sqm	12.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
15.008	5.6.2.a - Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder( NRMB) @ 5.4 percent of mix and filler, transporting the hot	45.000	cum	14000.00	630000.00	Rupees Six Lakh Thirty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)					
15.009	55.22 - Supplying and laying interlocking tile 100 mm or nearest size thickness, minimum strength M 40 including providing a layer of 6 mm aggregate for 5 cm thickness, then laying interlock cobbles in lines and levels as per the directions of the departmental officers at site inclusive of all cost & conveyance charges etc.; complete.	500.000	sqm	1300.00	650000.00	Rupees Six Lakh Fifty Zero Thousand Zero Zero Only
<b>16</b>	<b>Road Restoration Charges(MORD)- CWPM &amp; CWGM</b>					
16.001	3.5.3 - Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m & Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3	3430.000	cum	40.00	137200.00	Rupees One Lakh Thirty Seven Thousand Two Hundred Zero Only
16.002	4.1.A.1 - Granular Sub-base with Well Graded Material (Table 400.1) (A) By Mix in Place Method Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (i) For Grading I Material	1400.000	cum	3200.00	4480000.00	Rupees Forty Four Lakh Eighty Zero Thousand Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
16.003	4.9 - Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead	1400.000	cum	3600.00	5040000.00	Rupees Fifty Zero Lakh Forty Zero Thousand Zero Zero Only
16.004	5.1.1a - Prime Coat :- Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	10000.000	sqm	90.00	900000.00	Rupees Nine Lakh Zero Zero Zero Only
16.005	5.2.3a - Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	10000.000	sqm	16.00	160000.00	Rupees One Lakh Sixty Zero Thousand Zero Zero Only
16.006	5.9.1.2a - 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable	10000.000	sqm	210.00	2100000.00	Rupees Twenty One Lakh Zero Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. Case - I By Manual Means (II) Bitumen (S-65)					
16.007	5.12.A.3.2a - Seal Coat - Manual Means - Type C - Bitumen S-65 Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A. By Manual Means :- Case - III : Type C (II) Bitumen (S-65)	10000.000	sqm	90.00	900000.00	Rupees Nine Lakh Zero Zero Zero Only
16.008	75.8.1.1 - Providing plain/reinforced concrete(1 cement:2 fine aggregate: 4 course aggregate) for substructure as per drawings and technical specifications Clause 802, 803, 1202 & 1203 as required including compaction, finishing and tamping etc .complete. Max. size of course aggregate not exceeding 25mm , mixed in concrete mixer etc complete as per specification (i) Nominal mix (1:2:4)	630.000	cum	9300.00	5859000.00	Rupees Fifty Eight Lakh Fifty Nine Thousand Zero Zero Only
<b>17</b>	<b>Supplying and laying of Distribution lines and Providing FHTCs</b>					
17.001	100.98.115 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 100mm Dia.	1322.000	metre	1480.00	1956560.00	Rupees Nineteen Lakh Fifty Six Thousand Five Hundred Sixty Zero Only
17.002	100.98.116 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 150mm Dia.	76.000	metre	2250.00	171000.00	Rupees One Lakh Seventy One Thousand Zero Zero Only
17.003	100.98.117 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	1125.000	metre	2900.00	3262500.00	Rupees Thirty Two Lakh Sixty Two Thousand Five Hundred Zero Only
17.004	100.98.134 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 8kg, 90mm Outer Dia.	1975.000	metre	230.00	454250.00	Rupees Four Lakh Fifty Four Thousand Two Hundred Fifty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Zero Only
17.005	100.98.154 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 10kg, 90mm Outer Dia.	7391.000	metre	290.00	2143390.00	Rupees Twenty One Lakh Forty Three Thousand Three Hundred Ninety Zero Only
17.006	100.98.174 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 12.5kg, 90mm Outer Dia.	20286.000	metre	340.00	6897240.00	Rupees Sixty Eight Lakh Ninety Seven Thousand Two Hundred Forty Zero Only
17.007	100.98.194 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 90mm Outer Dia.	6461.000	metre	410.00	2649010.00	Rupees Twenty Six Lakh Forty Nine Thousand Zero Ten Only
17.008	100.98.135 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 8kg, 110mm Outer Dia.	298.000	metre	340.00	101320.00	Rupees One Lakh One Thousand Three Hundred Twenty Only
17.009	100.98.155 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 10kg, 110mm Outer Dia.	4413.000	metre	420.00	1853460.00	Rupees Eighteen Lakh Fifty Three Thousand Four Hundred Sixty Zero Only
17.010	100.98.175 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 12.5kg, 110mm Outer Dia.	1600.000	metre	510.00	816000.00	Rupees Eight Lakh Sixteen Thousand Zero Zero Only
17.011	100.98.195 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 16kg, 110mm Outer Dia.	3092.000	metre	610.00	1886120.00	Rupees Eighteen Lakh Eighty Six Thousand One Hundred Twenty Only
17.012	100.98.138 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 8kg, 160mm Outer Dia.	952.000	metre	760.00	723520.00	Rupees Seven Lakh Twenty Three Thousand Five Hundred Twenty Only
17.013	100.98.158 - Supply of HDPE Pipe PE 100 (IS 4984/1995), 10kg, 160mm Outer Dia.	532.000	metre	620.00	329840.00	Rupees Three Lakh Twenty Nine Thousand Eight Hundred Forty Zero Only
17.014	OD272868/2022-2023 - Supply of HDPE Specials@1% cost of pipe	1.000	L.S	187000.00	187000.00	Rupees One Lakh Eighty Seven Thousand Zero Zero Only
17.015	OD124021/2022-2023 - Supply of 150mm GI pipe	36.000	metre	2300.00	82800.00	Rupees Eighty Two Thousand Eight Hundred



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
						Zero Only
17.016	OD124022/2022-2023 - Supply of 100mm GI pipe	6507.000	metre	1600.00	10411200.00	Rupees One Crore Four Lakh Eleven Thousand Two Hundred Zero Only
17.017	OD272869/2022-2023 - Supply of GI pipe specials	1.000	L.S	240000.00	240000.00	Rupees Two Lakh Forty Zero Thousand Zero Zero Only
17.018	100.98.440 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	20.000	no	6000.00	120000.00	Rupees One Lakh Twenty Thousand Zero Zero Only
17.019	100.98.445 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Double Orifice Type DS2, Size 40mm.	4.000	no	7500.00	30000.00	Rupees Thirty Zero Thousand Zero Zero Only
17.020	100.98.457 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 80mm.	26.000	no	7200.00	187200.00	Rupees One Lakh Eighty Seven Thousand Two Hundred Zero Zero Only
17.021	100.98.458 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 100mm.	15.000	no	9900.00	148500.00	Rupees One Lakh Forty Eight Thousand Five Hundred Zero Only
17.022	100.98.460 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	2.000	no	14500.00	29000.00	Rupees Twenty Nine Thousand Zero Zero Only
17.023	100.98.461 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 200mm.	1.000	no	25000.00	25000.00	Rupees Twenty Five Thousand Zero Zero Only
17.024	100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all	11076.680	cum	680.00	7532142.40	Rupees Seventy Five Lakh Thirty Two Thousand One Hundred Forty Two And Forty Zero paise Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	kinds of soil.					
17.025	100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock.	7942.008	cum	780.00	6194766.24	Rupees Sixty One Lakh Ninety Four Thousand Seven Hundred Sixty Six And Twenty Four paise Only
17.026	100.2.7 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited.	2647.336	cum	1300.00	3441536.80	Rupees Thirty Four Lakh Forty One Thousand Five Hundred Thirty Six And Eighty Zero paise Only
17.027	100.4.1 - Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m <sup>3</sup> of blasting)	1588.556	cum	3600.00	5718801.60	Rupees Fifty Seven Lakh Eighteen Thousand Eight Hundred One And Sixty Zero paise Only
17.028	100.1.10 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth exceeding 1.5m but not exceeding 3m, including getting out the excavated soil, and then	1058.780	cum	1300.00	1376414.00	Rupees Thirteen Lakh Seventy Six Thousand Four Hundred Fourteen Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Hard Rock Requiring Blasting.					
17.029	50.2.25.1 - Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge	2400.000	cum	530.00	1272000.00	Rupees Twelve Lakh Seventy Two Thousand Zero Zero Only
17.030	100.8.1 - Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.	25400.000	metre	27.00	685800.00	Rupees Six Lakh Eighty Five Thousand Eight Hundred Zero Only
17.031	100.59.1 - Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.	600.000	metre	30.00	18000.00	Rupees Eighteen Thousand Zero Zero Only
17.032	OD124023/2022-2023 - Dismantling manually including disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charge:Bituminous road	10980.000	sqm	90.00	988200.00	Rupees Nine Lakh Eighty Eight Thousand Two Hundred Zero Only
17.033	100.10.1 - Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-	36113.000	metre	105.00	3791865.00	Rupees Thirty Seven Lakh Ninety One Thousand Eight Hundred Sixty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	fusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline 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 levelling the trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 90mm Nominal Outer Diameter pipes.					Five Only
17.034	100.10.2 - Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electrofusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline 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 levelling the trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 110mm Nominal Outer Diameter Pipes.	9403.000	metre	145.00	1363435.00	Rupees Thirteen Lakh Sixty Three Thousand Four Hundred Thirty Five Only
17.035	100.10.5 - Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electrofusion welding using automatic or semi-automatic electrofusion machines, testing the pipeline 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 levelling the	1484.000	metre	245.00	363580.00	Rupees Three Lakh Sixty Three Thousand Five Hundred Eighty Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	trenches including all labour charge, hire for appliances etc., complete but excluding cost of pipe and fittings: 160mm Nominal Outside Diameter Pipes.					
17.036	18.12.7 - Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 65 mm dia nominal bore	2307.000	metre	950.00	2191650.00	Rupees Twenty One Lakh Ninety One Thousand Six Hundred Fifty Zero Only
17.037	18.12.8 - Providing and fixing G.I. pipes complete with G.I fittings including trenching and refilling etc. External work 80 mm dia nominal bore	5421.000	metre	1150.00	6234150.00	Rupees Sixty Two Lakh Thirty Four Thousand One Hundred Fifty Zero Only
17.038	100.12.9 - Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., but excluding cost of pipes and fittings for External work: 100mm diameter nominal bore.	6507.000	metre	270.00	1756890.00	Rupees Seventeen Lakh Fifty Six Thousand Eight Hundred Ninety Zero Only
17.039	100.12.11 - Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc., but excluding cost of pipes and fittings for External work: 150mm diameter nominal bore.	36.000	metre	330.00	11880.00	Rupees Eleven Thousand Eight Hundred Eighty Zero Only
17.040	100.14.1 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 100mm diameter Ductile Iron Class K-9 Pipes.	1356.000	metre	65.00	88140.00	Rupees Eighty Eight Thousand One Hundred Forty Zero Only
17.041	100.14.2 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 150mm diameter Ductile Iron Class K-9 Pipes.	70.000	metre	100.00	7000.00	Rupees Seven Thousand Zero Zero Only
17.042	100.14.3 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.	1143.000	metre	100.00	114300.00	Rupees One Lakh Fourteen Thousand Three Hundred Zero Only
17.043	OD124024/2022-2023 - Labour for cutting D.I. pipe with steel saw. 100 mm	22.000	Each Cut	195.00	4290.00	Rupees Four Thousand Two Hundred Ninety





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	diameter D.I. pipe					Zero Only
17.044	OD124025/2022-2023 - Labour for cutting DI. pipe with steel saw.150 mm diameter C.I. pipe	8.000	Each Cut	365.00	2920.00	Rupees Two Thousand Nine Hundred Twenty Only
17.045	OD124026/2022-2023 - Labour for cutting D.I. pipe with steel saw.200 mm diameter D.I. pipe	20.000	Each Cut	490.00	9800.00	Rupees Nine Thousand Eight Hundred Zero Only
17.046	18.70.1 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:100 mm dia pipes	240.000	joint	125.00	30000.00	Rupees Thirty Zero Thousand Zero Zero Only
17.047	18.70.2 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:150 mm dia pipes	15.000	joint	200.00	3000.00	Rupees Three Thousand Zero Only
17.048	18.70.3 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes	210.000	joint	295.00	61950.00	Rupees Sixty One Thousand Nine Hundred Fifty Zero Only
17.049	18.30.2 - Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:100 mm diameter pipe	12.000	no	350.00	4200.00	Rupees Four Thousand Two Hundred Zero Only
17.050	18.30.4 - Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:150 mm diameter pipe	4.000	no	440.00	1760.00	Rupees One Thousand Seven Hundred Sixty Zero Only
17.051	18.30.5 - Providing flanged joints to double flanged C.I./D.I pipes and specials, including testing of joints:200 mm diameter pipe	10.000	no	475.00	4750.00	Rupees Four Thousand Seven Hundred Fifty Zero Only
17.052	18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia	13.040	quintal	23000.00	299920.00	Rupees Two Lakh Ninety Nine Thousand Nine Hundred Twenty Only
17.053	100.32.1 - Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will	20.000	no	160.00	3200.00	Rupees Three Thousand Two Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	be paid separately): 25mm Single Acting Air Valve.					
17.054	100.32.2 - Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 40mm Single Acting Air Valve.	4.000	no	200.00	800.00	Rupees Eight Hundred Zero Only
17.055	100.31.1.1 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 80mm diameter, Class I.	26.000	no	670.00	17420.00	Rupees Seventeen Thousand Four Hundred Twenty Only
17.056	100.31.1.2 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 100mm diameter, Class I.	15.000	no	1000.00	15000.00	Rupees Fifteen Thousand Zero Zero Only
17.057	100.31.1.4 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 150mm diameter, Class I.	2.000	no	1375.00	2750.00	Rupees Two Thousand Seven Hundred Fifty Zero Only
17.058	100.31.1.5 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 200mm diameter, Class I.	1.000	no	1750.00	1750.00	Rupees One Thousand Seven Hundred Fifty Zero Only
17.059	OD124027/2022-2023 - Supply and fixing of stainless steel spring loaded pressure relief valve as per IS 9739(1981)	30.000	no	6300.00	189000.00	Rupees One Lakh Eighty Nine Thousand Zero Zero Only
17.060	OD124028/2022-2023 - Supply, erection of 200 mm Mechanical flow meter of Woltzman type confirming ISO 4046 c l a s s B o f	2.000	no	38000.00	76000.00	Rupees Seventy Six Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	ARAD/ZENNIER/REYCHE M RPG/ITRON make and shall be tested and certified by FCRI Palakkad and product shall have warranty for at least 2 years					
17.061	OD124029/2022-2023 - Supply, erection of 150 mm Mechanical flow meter of Woltzman type confirming ISO 4046 c l a s s B o f ARAD/ZENNIER/REYCHE M RPG/ITRON make and shall be tested and certified by FCRI Palakkad and product shall have warranty for at least 2 years	4.000	no	31000.00	124000.00	Rupees One Lakh Twenty Four Thousand Zero Zero Only
17.062	OD124030/2022-2023 - Supply, erection of 100mm Mechanical flow meter of Woltzman type confirming ISO 4046 c l a s s B o f ARAD/ZENNIER/REYCHE M RPG/ITRON make and shall be tested and certified by FCRI Palakkad and product shall have warranty for at least 2 years	8.000	no	18000.00	144000.00	Rupees One Lakh Forty Four Thousand Zero Zero Only
17.063	100.35.1 - Testing 100mm DI/CI pipeline with potable water to the required test pressure 100 mm dia	1356.000	metre	26.00	35256.00	Rupees Thirty Five Thousand Two Hundred Fifty Six Only
17.064	100.35.2 - Testing 150mm DI/CI pipeline with potable water to the required test pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA	70.000	metre	35.00	2450.00	Rupees Two Thousand Four Hundred Fifty Zero Only
17.065	100.35.3 - Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia Observed Data derived from item no.1020 of PHED DATA	1143.000	metre	45.00	51435.00	Rupees Fifty One Thousand Four Hundred Thirty Five Only
17.066	100.37.5.1 - In situ fabrication of M.S. pipes of size 100mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat	60.000	metre	4500.00	270000.00	Rupees Two Lakh Seventy Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.					
17.067	100.37.5.2 - Fabricating M.S. flanges of diameter 100mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.	2.000	no	1270.00	2540.00	Rupees Two Thousand Five Hundred Forty Zero Only
17.068	100.37.5.3 - Cutting 100mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	10.000	no	130.00	1300.00	Rupees One Thousand Three Hundred Zero Only
17.069	100.37.5.4 - Welding 100mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	10.000	no	490.00	4900.00	Rupees Four Thousand Nine Hundred Zero Only
17.070	100.37.5.5 - Grinding cut and weld edges of 100mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	20.000	no	90.00	1800.00	Rupees One Thousand Eight Hundred Zero Only
17.071	100.37.7.1 - In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.	36.000	metre	6600.00	237600.00	Rupees Two Lakh Thirty Seven Thousand Six Hundred Zero Only
17.072	100.37.7.2 - Fabricating M.S. flanges of diameter 200mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges,	2.000	no	2000.00	4000.00	Rupees Four Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.					
17.073	100.37.7.3 - Cutting 200mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	10.000	no	225.00	2250.00	Rupees Two Thousand Two Hundred Fifty Zero Only
17.074	100.37.7.4 - Welding 200mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	10.000	no	900.00	9000.00	Rupees Nine Thousand Zero Zero Only
17.075	100.37.7.5 - Grinding cut and weld edges of 200mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	20.000	no	170.00	3400.00	Rupees Three Thousand Four Hundred Zero Only
17.076	2.8.1 - Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	301.320	cum	340.00	102448.80	Rupees One Lakh Two Thousand Four Hundred Forty Eight And Eighty Zero paise Only
17.077	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	31.230	cum	9100.00	284193.00	Rupees Two Lakh Eighty Four Thousand One Hundred Ninety Three Only
17.078	5.1.3 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering,	38.744	cum	9700.00	375816.80	Rupees Three Lakh Seventy Five Thousand Eight Hundred Sixteen And



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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)					Eighty Zero paise Only
17.079	5.1.2 - Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	106.578	cum	10000.00	1065780.00	Rupees Ten Lakh Sixty Five Thousand Seven Hundred Eighty Zero Only
17.080	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butresses, plinth and string courses etc.	770.040	sqm	820.00	631432.80	Rupees Six Lakh Thirty One Thousand Four Hundred Thirty Two And Eighty Zero paise Only
17.081	5.9.1 - Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	424.000	sqm	385.00	163240.00	Rupees One Lakh Sixty Three Thousand Two Hundred Forty Zero Only
17.082	5.22.6 - Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	10463.440	kilogram	110.00	1150978.40	Rupees Eleven Lakh Fifty Zero Thousand Nine Hundred Seventy Eight And Forty Zero paise Only
17.083	100.60.13.1.2 - Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 20mm ( 1/2 inch ) PE Pipe, PE 80, PN 16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, 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	1710.000	no	7800.00	13338000.00	Rupees One Crore Thirty Three Lakh Thirty Eight Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
17.084	100.60.13.3.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 25mm ( 3/4 inch ) PE Pipe, PE 80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, 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 and weather with ISI mark resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting	961.000	no	8800.00	8456800.00	Rupees Eighty Four Lakh Fifty Six Thousand Eight Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.					
17.085	100.60.13.4.2 - Providing 15mm (1/2 inch) house connection with 15mm water meter from existing AC / GI mains up to 125 mm dia., up to a length of 5m using 20mm ( 1/2 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, GI / MS 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.	360.000	no	7900.00	2844000.00	Rupees Twenty Eight Lakh Forty Four Thousand Zero Zero Only
17.086	100.60.13.6.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing AC / GI mains up to 125 mm dia., up to a length of 5 m using 25mm ( 3/4 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, GI / MS Service	330.000	no	8800.00	2904000.00	Rupees Twenty Nine Lakh Four Thousand Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
17.087	100.60.13.7.2 - Providing 15mm (1/2 inch) house connection with 15mm water meter from existing CI mains up to 125 mm dia., up to a length of 5 m using 20mm ( 1/2 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers 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	20.000	no	9000.00	180000.00	Rupees One Lakh Eighty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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					
17.088	100.60.13.9.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains up to 125 mm dia., up to a length of 5 m using 25mm (3/4 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers 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	10.000	no	10000.00	100000.00	Rupees One Lakh Zero Zero Zero Only
17.089	100.60.14.7.2 - Providing 15mm (1/2 inch) house connection with 15mm water meter from existing CI mains from 150mm to 200mm dia., up to a length of 5 m using 20mm ( 1/2 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel	12.000	no	9250.00	111000.00	Rupees One Lakh Eleven Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	valve, bend, MTA, FTA, couplers 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.					
17.090	100.60.14.9.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing CI mains from 150mm to 200mm dia., up to a length of 5 m using 25mm ( 3/4 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers 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	8.000	no	10000.00	80000.00	Rupees Eighty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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.					
17.091	100.60.14.1.2 - Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 20mm ( 1/2 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, 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.	20.000	no	7950.00	159000.00	Rupees One Lakh Fifty Nine Thousand Zero Only
17.092	100.60.14.3.2 - Providing 20mm (3/4 inch) house connection with 15mm water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 25mm ( 3/4 inch ) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16	15.000	no	8900.00	133500.00	Rupees One Lakh Thirty Three Thousand Five Hundred Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, 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					
17.093	100.60.15.1.1 - Providing additional length of house connection pipe using 20 mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN16 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.	19800.000	metre	195.00	3861000.00	Rupees Thirty Eight Lakh Sixty One Thousand Zero Zero Only
17.094	100.60.15.2.1 - Providing additional length of house connection pipe using 25 mm (3/4 inch) PE Pipe, PE80,	52960.000	metre	210.00	11121600.00	Rupees One Crore Eleven Lakh Twenty One Thousand



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	PN16, Conforming to IS 4984: 2016 or later edition and PN 16 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.					Six Hundred Zero Only
17.095	100.60.10.1.1 - Providing 15mm (1/2 inch) GM 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.	2122.000	no	880.00	1867360.00	Rupees Eighteen Lakh Sixty Seven Thousand Three Hundred Sixty Zero Only
17.096	100.60.10.2.1 - Providing 20mm (3/4 inch) GM Air Valve in the water meter assembly for 20mm connection, using 25mm 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.	1324.000	no	1100.00	1456400.00	Rupees Fourteen Lakh Fifty Six Thousand Four Hundred Zero Only
17.097	100.60.12.3.1 - 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.	2122.000	no	660.00	1400520.00	Rupees Fourteen Lakh Zero Five Hundred Twenty Only
17.098	100.60.12.4.1 - Providing 15mm PVC Tap in the water	1324.000	no	700.00	926800.00	Rupees Nine Lakh Twenty



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	meter assembly for 20mm connection, using 25mm 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.					Six Thousand Eight Hundred Zero Only
<b>18</b>	<b>Road restoration charges(MORTH) - Distribution lines</b>					
18.001	3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m	1120.000	cum	53.00	59360.00	Rupees Fifty Nine Thousand Three Hundred Sixty Zero Only
18.002	4.2.A.1 - Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method	560.000	cum	3500.00	1960000.00	Rupees Nineteen Lakh Sixty Zero Thousand Zero Zero Only
18.003	4.12 - Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	560.000	cum	3600.00	2016000.00	Rupees Twenty Lakh Sixteen Thousand Zero Zero Only
18.004	5.1.a - Providing and applying primer coat with bitumen emulsion ( SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm	6000.000	sqm	80.00	480000.00	Rupees Four Lakh Eighty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	using mechanical means.					
18.005	5.2.b - Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.	6000.000	sqm	15.00	90000.00	Rupees Ninety Zero Thousand Zero Zero Only
18.006	5.3.2.a - Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)	300.000	cum	9500.00	2850000.00	Rupees Twenty Eight Lakh Fifty Zero Thousand Zero Zero Only
18.007	5.2.a - Providing and applying tack coat with bitumen emulsion( RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.	6000.000	sqm	12.00	72000.00	Rupees Seventy Two Thousand Zero Zero Only
18.008	5.6.2.a - Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder( NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)	180.000	cum	14500.00	2610000.00	Rupees Twenty Six Lakh Ten Thousand Zero Zero Only
18.009	55.22 - Supplying and laying interlocking tile 100 mm or	1000.000	sqm	1300.00	1300000.00	Rupees Thirteen Lakh Zero Zero





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	nearest size thickness, minimum strength M 40 including providing a layer of 6 mm aggregate for 5 cm thickness, then laying interlock cobbles in lines and levels as per the directions of the departmental officers at site inclusive of all cost & conveyance charges etc.; complete.					Zero Only
<b>19</b>	<b>Road Restoration Charges(MORD)- Distribution lines</b>					
19.001	3.5.3 - Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m &lt;br&gt; Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3	3220.000	cum	40.00	128800.00	Rupees One Lakh Twenty Eight Thousand Eight Hundred Zero Only
19.002	4.1.A.1 - Granular Sub-base with Well Graded Material (Table 400.1) (A) By Mix in Place Method Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (i) For Grading I Material	1400.000	cum	3200.00	4480000.00	Rupees Forty Four Lakh Eighty Zero Thousand Zero Zero Only
19.003	4.9 - Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth	1400.000	cum	3800.00	5320000.00	Rupees Fifty Three Lakh Twenty Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead					
19.004	5.1.1a - Prime Coat :- Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	10000.000	sqm	95.00	950000.00	Rupees Nine Lakh Fifty Zero Thousand Zero Zero Only
19.005	5.2.3a - Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	10000.000	sqm	17.00	170000.00	Rupees One Lakh Seventy Zero Thousand Zero Zero Only
19.006	5.9.1.2a - 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. Case - I By Manual Means (II) Bitumen (S-65)	10000.000	sqm	220.00	2200000.00	Rupees Twenty Two Lakh Zero Zero Zero Only
19.007	5.12.A.3.2a - Seal Coat - Manual Means - Type C - Bitumen S-65 Providing and laying seal coat sealing the	10000.000	sqm	95.00	950000.00	Rupees Nine Lakh Fifty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A. By Manual Means :- Case - III : Type C (II) Bitumen (S-65)					
19.008	75.8.1 - Providing Plain cement concrete for road work CC 1:2:4 (1 cement: 2 fine aggregate: 4course aggregate) laid to required slope and camber in panels (@ 3 m c/c) as required including compaction, finishing and tamping etc .complete. Max. size of courseaggregate not exceeding 25mm , mixed in concrete mixer etc complete as perspecification (i) Nominal mix (1:2:4)	420.000	cum	9500.00	3990000.00	Rupees Thirty Nine Lakh Ninety Zero Thousand Zero Zero Only
<b>20</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from WTP to GLSR at Marayoor Gramam Booster - Discharge 20 lps, Head 61 m</b>					
20.001	OD267575/2022-2023 - Supply, erection, testing and commissioning of CF pumpset having a discharge of 20 lps for a head of 61 m from WTP to Marayoor Gramam Booster. Supply and erection of CF pump set with the following specification  1. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge - 20 lps  Total head - 61 mtrs    Size of pumping main pipe - 150 mm DI, Length-2670	2.000	no	1072000.00	2144000.00	Rupees Twenty One Lakh Forty Four Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>m&lt;br&gt;Speed- Less than 1500 rpm . 2 . Motor&lt;br&gt;Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulation. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per IE rules and code of practice etc. complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulation and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering energy conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;Supply</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.  If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided.  .Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
20.002	OD268918/2022-2023 - Earthing conductor of 4.75 mm (dia) copper conductor 6 SWG	2.000	set	7600.00	15200.00	Rupees Fifteen Thousand Two Hundred Zero Only
20.003	OD269198/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
20.004	OD269704/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>21</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Marayoor Gramam Booster Station to GLSR at Kuthukalkudi Road Booster - Discharge 8 lps, Head 153 m</b>					
21.001	OD268730/2022-2023 - Supply erection,testing and commissioning of CF pumpset having a discharge of 8 lps for a head of 158 m from Marayoor Gramam Booster Station to Kuthukalkudi Road Booster. Supply and erection of CF pump set with the following specification  l. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for	2.000	no	1088000.00	2176000.00	Rupees Twenty One Lakh Seventy Six Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete.&lt;br&gt;&lt;br&gt;The duty condition is as follows.&lt;br&gt;&lt;br&gt;Discharge - 8 lps.&lt;br&gt;&lt;br&gt;Total head - 15.8 mtrs.&lt;br&gt;&lt;br&gt;&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length-2296 m.&lt;br&gt;&lt;br&gt;Speed- Less than 1500 rpm. 2. Motor.&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulations. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;&lt;br&gt;3. Starter.&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations and code of practice etc. complete.&lt;br&gt;&lt;br&gt;&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;&lt;br&gt;Supply,</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall c o n f i r m t o I S 2 8 3 4 &lt;br&gt;8. Valves&lt;br&gt;Supply of</p>					





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works. 9. Suction and delivery pipe connections Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main. If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided. .Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
21.002	OD269189/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
21.003	OD269425/2022-2023 - Earthing conductor of 4.75mm (dia) copper conductor 6 SWG	2.000	set	7600.00	15200.00	Rupees Fifteen Thousand Two Hundred Zero Only
21.004	OD269710/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>22</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Kuthukalkudi Road Booster to GLSR at Periyakudi Booster - Discharge 7 lps, Head 170 m</b>					
22.001	OD268772/2022-2023 - Supply erection,testing and commissioning of CF pumpset having a discharge of 7 lps for a head of 171 m from Kuthukalkudi Road Booster to Periyakudi	2.000	no	1088000.00	2176000.00	Rupees Twenty One Lakh Seventy Six Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>Booster. Supply and erection of CF pump set with the following specification&lt;br&gt;&lt;br&gt;1. Pump&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts &amp; nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete&lt;br&gt;&lt;br&gt;The duty condition is as follows&lt;br&gt;&lt;br&gt;Discharge - 7 lps&lt;br&gt;&lt;br&gt;Total head - 17 mtrs&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length-1800 m&lt;br&gt;&lt;br&gt;Speed- Less than 1500 rpm . 2 . Motor&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre-qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulation. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;&lt;br&gt;3. Starter&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulation and code of practice etc . complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulation and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;&lt;br&gt;5. C a b l i n g work&lt;br&gt;&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;&lt;br&gt;6. Earthing&lt;br&gt;&lt;br&gt;Supply of all materials and providing suitable earthing by using</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;&lt;br&gt;7. Capacitor&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;&lt;br&gt;8. Valves&lt;br&gt;&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.&lt;br&gt;&lt;br&gt;If the dia of suction pipe is above 80 mm CI pipes &amp; specials shall be provided.&lt;br&gt;&lt;br&gt;Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.</p>					
22.002	OD269205/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
22.003	OD269496/2022-2023 - Earthing conductor of 4.75mm (dia) copper conductor 6 SWG	2.000	set	7600.00	15200.00	Rupees Fifteen Thousand Two Hundred Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>protection relay shall be included in starter as per present CEA regulation. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulation and code of practice etc. complete.&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulation and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5.</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering energy conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.&lt;br&gt;If the dia of suction pipe is above 80 mm CI pipes &amp; specials shall be provided.&lt;br&gt;Also two year Warrantee and</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Supply of ELCB/RCCB to be added at panel for safety.					
23.002	OD269206/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
23.003	OD269527/2022-2023 - Earthing conductor of 3.15mm (dia) copper conductor 10 SWG	2.000	set	6200.00	12400.00	Rupees Twelve Thousand Four Hundred Zero Only
23.004	OD269713/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>24</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Kuthukalkudi Road Booster to GLSR at Kavakkudi - Discharge 3 lps, Head 174 m</b>					
24.001	OD268786/2022-2023 - Supply, erection, testing and commissioning of CF pumpset having a discharge of 3 lps for a head of 172 m from Kuthukalkudi Road Booster to Kavakkudi. Supply and erection of CF pump set with the following specification  1. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge - 3 lps  Total head - 172 mtrs  Size of pumping main pipe - 100 mm DI, Length-1422 m  Speed- Less than 1500 rpm. 2. Motor  Supply, erection, testing and commissioning of KWA pre-qualified reputed make	2.000	no	550000.00	1100000.00	Rupees Eleven Lakh Zero Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulation. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulation and code of practice etc. complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>earth bus for the entire panel and inter connect with the MCCBs as per IE rules and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&amp;lt;br&amp;gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&amp;lt;br&amp;gt;5. C a b l i n g work&amp;lt;br&amp;gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&amp;lt;br&amp;gt;6. Earthing&amp;lt;br&amp;gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&amp;lt;br&amp;gt;7. Capacitor&amp;lt;br&amp;gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall c o n f i r m t o I S 2 8 3 4 &amp; l t ; b r &amp; g t ; 8 . Valves&amp;lt;br&amp;gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&amp;lt;br&amp;gt;9. Suction and delivery pipe connections&amp;lt;br&amp;gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.  If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided.  .Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
24.002	OD269715/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>25</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Kuthukalkudi Road Booster to GLSR at Nellippetti Booster - Discharge 3 lps, Head 144 m</b>					
25.001	OD268739/2022-2023 - Supply, erection, testing and commissioning of CF pumpset having a discharge of 3 lps for a head of 151 m from Kuthukalkudi Road Booster to Nellippetti. Supply and erection of CF pump set with the following specification  1. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge - 3 lps  Total head - 151 mtrs    Size of pumping main pipe - 100 mm DI, Length-2452 m  Speed- Less than 1500 rpm . 2. Motor  Supply, erection, testing and	2.000	no	550000.00	1100000.00	Rupees Eleven Lakh Zero Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulation. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulation and code of practice etc. complete.&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per IE rules and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&amp;lt;br&amp;gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&amp;lt;br&amp;gt;5. C a b l i n g work&amp;lt;br&amp;gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&amp;lt;br&amp;gt;6. Earthing&amp;lt;br&amp;gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&amp;lt;br&amp;gt;7. Capacitor&amp;lt;br&amp;gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall c o n f i r m t o I S 2 8 3 4 &amp; l t ; b r &amp; g t ; 8 . Valves&amp;lt;br&amp;gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&amp;lt;br&amp;gt;9. Suction and delivery pipe connections&amp;lt;br&amp;gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m.</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.  If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided.  Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
25.002	OD269719/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>26</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Nellipetti Booster to GLSR at Nellipettikudi - Discharge 4 lps, Head 188 m</b>					
26.001	OD268759/2022-2023 - Supply erection, testing and commissioning of CF pumpset having a discharge of 4 lps for a head of 179 m from Nellipetti Booster to Nellipettikudi. Supply and erection of CF pump set with the following specification  1. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge - 4 lps  Total head - 179 mtrs    Size of pumping main pipe - 100 mm DI, Length- 1150 m  Speed- Less than 1500 rpm . 2 .	2.000	no	730000.00	1460000.00	Rupees Fourteen Lakh Sixty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>Motor&lt;br&gt;Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulations 2010. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc. complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&amp;lt;br&amp;gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&amp;lt;br&amp;gt;5. C a b l i n g work&amp;lt;br&amp;gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering energy conservation.&amp;lt;br&amp;gt;6. Earthing&amp;lt;br&amp;gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&amp;lt;br&amp;gt;7. Capacitor&amp;lt;br&amp;gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &amp;lt;br&amp;gt;8. Valves&amp;lt;br&amp;gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&amp;lt;br&amp;gt;9. Suction and delivery pipe connections&amp;lt;br&amp;gt;Supply and fitting of suitable size</p>					





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main. If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided. Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
26.002	OD269212/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
26.003	OD269534/2022-2023 - Earthing conductor of 3.15 mm (dia) copper conductor 10 SWG	2.000	set	6200.00	12400.00	Rupees Twelve Thousand Four Hundred Zero Only
26.004	OD269723/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>27</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Marayoor Gramam to GLSR at Kammalamkudi Booster - Discharge 2.5 lps, Head 190 m</b>					
27.001	OD268768/2022-2023 - Supply, erection, testing and commissioning of CF pumpset having a discharge of 2.5 lps for a head of 190 m from Marayoor Gramam to Kammalamkudi Booster. Supply and erection of CF pump set with the following specification 1. Pump Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc.	2.000	no	550000.00	1100000.00	Rupees Eleven Lakh Zero Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete&lt;br&gt;The duty condition is as follows&lt;br&gt;Discharge - 2.5 lps&lt;br&gt;Total head - 19.0 mtrs&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length-1330 m&lt;br&gt;Speed- Less than 1500 rpm . 2 . Motor&lt;br&gt;Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulations 2010. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc. complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall c o n f i r m t o I S 2 8 3 4 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works. 9. Suction and delivery pipe connections Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main. If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided. Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
27.002	OD269725/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>28</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Kammalamkudi Booster to GLSR at Kammalamkudi - Discharge 2 lps, Head 119 m</b>					
28.001	OD268774/2022-2023 - Supply, erection, testing and commissioning of CF pumpset having a discharge of 2 lps for a head of 119 m from Kammalamkudi Booster to Kammalamkudi. Supply and erection of CF pump set with the following specification 1. Pump Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts	2.000	no	330000.00	660000.00	Rupees Six Lakh Sixty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete.&lt;br&gt;&lt;br&gt;The duty condition is as follows.&lt;br&gt;&lt;br&gt;Discharge - 2 lps.&lt;br&gt;&lt;br&gt;Total head - 1 1 8 mtrs.&lt;br&gt;&lt;br&gt;&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length-620 m.&lt;br&gt;&lt;br&gt;Speed- Less than 1 5 0 0 r p m . 2 . Motor.&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per CEA regulations 2010 . Flexible coupling shall be used for coupling of pumps and motors. &lt;br&gt;&lt;br&gt;3 . Starter.&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc . complete.&lt;br&gt;&lt;br&gt;&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering energy conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;8.</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.&lt;br&gt;If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided.&lt;br&gt;.Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
28.002	OD269217/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
28.003	OD269542/2022-2023 - Earthing conductor of 3.15 mm (dia) copper conductor 10 SWG	2.000	set	6200.00	12400.00	Rupees Twelve Thousand Four Hundred Zero Only
28.004	OD269726/2022-2023 - Submitting application to KSEBLfor power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>29</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Marayoor Gramam to GLSR at Eechampetti - Discharge 5.5 lps, Head 221 m</b>					
29.001	OD268782/2022-2023 - Supply, erection, testing and commissioning of CF pumpset having a discharge of 5.5 lps for a head of 221 m from Marayoor Gramam to	2.000	no	1087000.00	2174000.00	Rupees Twenty One Lakh Seventy Four Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>Eechampetti. Supply and erection of CF pump set with the following specification&lt;br&gt;&lt;br&gt;1. Pump&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts &amp; nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete&lt;br&gt;&lt;br&gt;The duty condition is as follows&lt;br&gt;&lt;br&gt;Discharge - 5.5 lps&lt;br&gt;&lt;br&gt;Total head - 21 mtrs&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length- 3638 m&lt;br&gt;&lt;br&gt;Speed- Less than 1500 rpm . 2 . Motor&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre-qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per CEA regulations 2010 . Flexible coupling shall be used for coupling of pumps and motors. &lt;br&gt;&lt;br&gt;3 . Starter&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters</p>					





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc . complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;&lt;br&gt;5. C a b l i n g work&lt;br&gt;&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;&lt;br&gt;6. Earthing&lt;br&gt;&lt;br&gt;Supply of all materials and providing suitable earthing by using</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;&lt;br&gt;7. Capacitor&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;&lt;br&gt;8. Valves&lt;br&gt;&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.&lt;br&gt;&lt;br&gt;If the dia of suction pipe is above 80 mm CI pipes &amp; specials shall be provided.&lt;br&gt;&lt;br&gt;Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.</p>					
29.002	OD269727/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>30</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Eechampetti to GLSR at Puthukkudi Booster Station- Discharge 2.5 lps, Head 92 m</b>					
30.001	OD268767/2022-2023 - Supply erection, testing and commissioning of CF	2.000	no	344000.00	688000.00	Rupees Six Lakh Eighty Eight Thousand



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>pumpset having a discharge of 2.5 lps for a head of 95m from Eechampetti to Puthukudi booster station. Supply and erection of CF pump set with the following specification&lt;br&gt;&lt;br&gt;1. Pump&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts &amp; nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete&lt;br&gt;&lt;br&gt;The duty condition is as follows&lt;br&gt;&lt;br&gt;Discharge - 2.5 lps&lt;br&gt;&lt;br&gt;Total head - 95mtrs&lt;br&gt;&lt;br&gt;&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length-1800 m&lt;br&gt;&lt;br&gt;Speed- Less than 1500 rpm. 2. Motor&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre-qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per present CEA regulations 2010. Flexible coupling shall be used for coupling of pumps and motors.&lt;br&gt;&lt;br&gt;3. Starter&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact</p>					Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc. complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;&lt;br&gt;5. C a b l i n g work&lt;br&gt;&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;&lt;br&gt;6. Earthing&lt;br&gt;&lt;br&gt;Supply of</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.&lt;br&gt;If the dia of suction pipe is above 80 mm CI pipes &amp; specials shall be provided.&lt;br&gt;Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.</p>					
30.002	OD269260/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
30.003	OD269543/2022-2023 - Earthing conductor of	2.000	set	6200.00	12400.00	Rupees Twelve Thousand Four



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	3.15mm (dia) copper conductor 10 SWG					Hundred Zero Only
30.004	OD269728/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
30.005	OD273213/2022-2023 - Supply, erection and commissioning of 5KVA Solar PV installation unit for the working of Pump house and allied works such as solar meter, net meter, DC-MCB, AC-MCB, DC wire, AC transmission cable, surge protection device, DC to AC converter, battery unit, panel boards, switches, transportation, earthing, lightning protection system as per IS/IEC 62305, local connectivity cost, civil works, insurance, capital cost for online monitoring, comprehensive maintenance period for 2 years & connected accessories etc. complete	1.000	set	440000.00	440000.00	Rupees Four Lakh Forty Zero Thousand Zero Zero Only
<b>31</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Puthukkudi Booster Station to GLSR at Puthukkudi- Discharge 2 lps, Head 123 m</b>					
31.001	OD268761/2022-2023 - Supply erection, testing and commissioning of CF pumpset having a discharge of 2 lps for a head of 123 m from Puthukkudi Booster station to Puthukkudi. Supply and erection of CF pump set with the following specification  l. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge - 2 lps  Total head -	2.000	no	360000.00	720000.00	Rupees Seven Lakh Twenty Thousand Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering energy conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve</p>					





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	should be in suction as well as delivery sides for easy repair works. 9. Suction and delivery pipe connections Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main. If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided. Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
31.002	OD269265/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
31.003	OD269544/2022-2023 - Earthing conductor of 3.15 mm (dia) copper conductor 10 SWG	2.000	set	6200.00	12400.00	Rupees Twelve Thousand Four Hundred Zero Only
31.004	OD269729/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
31.005	OD273212/2022-2023 - Supply, erection and commissioning of 5KVA Solar PV installation unit for the working of Pump house and allied works such as solar meter, net meter, DC-MCB, AC-MCB, DC wire, AC transmission cable, surge protection device, DC to AC converter, battery unit, panel boards, switches, transportation, earthing, lightning protection system as per IS/IEC 62305, local connectivity cost, civil works, insurance, capital cost for online monitoring, comprehensive maintenance period for 2 years & connected	1.000	set	440000.00	440000.00	Rupees Four Lakh Forty Zero Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	accessories etc. complete					
<b>32</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Kovilkadavu to GLSR at Karshanad Booster 1- Discharge 10 lps, Head 130 m</b>					
32.001	OD268755/2022-2023 - Supply erection,testing and commissioning of CF pumpset having a discharge of 10 lps for a head of 130m from Kovilkadavu to Karshanad booster 1. Supply and erection of CF pump set with the following specification  1. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge - 10lps  Total head - 130 mtrs    Size of pumping main pipe - 150 mm DI, Length-2328 m  Speed- Less than 1500 rpm . 2 . Motor  Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per CEA regulations 2010. Flexible	2.000	no	1068000.00	2136000.00	Rupees Twenty One Lakh Thirty Six Thousand Zero Zero Only



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>coupling shall be used for coupling of pumps and motors. &lt;br&gt;3. Starter&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per IE CEA regulations 2010 and code of practice etc. complete.&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering energy conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall confirm to IS 2834 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.&lt;br&gt;If the dia of suction pipe is above 80 mm CI pipes &amp; specials shall be provided.&lt;br&gt;Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.</p>					





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per CEA regulations 2010. Flexible coupling shall be used for coupling of pumps and motors. &amp;lt;br&amp;gt;3. Starter&amp;lt;br&amp;gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc. complete.&amp;lt;br&amp;gt;&amp;lt;br&amp;gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&amp;lt;br&amp;gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going (the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall c o n f i r m t o I S 2 8 3 4 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive suction pump set sluice valve should be in suction as well as delivery sides for easy repair works.&lt;br&gt;9. Suction and delivery pipe connections&lt;br&gt;Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main.  If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided.  .Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
33.002	OD269275/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	7900.00	15800.00	Rupees Fifteen Thousand Eight Hundred Zero Only
33.003	OD269545/2022-2023 - Earthing conductor of 3.15 mm (dia) copper conductor 10 SWG	2.000	set	6250.00	12500.00	Rupees Twelve Thousand Five Hundred Zero Only
33.004	OD269735/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only
<b>34</b>	<b>Supply, Erection, Testing and commissioning of CF type CW Pumpsets from GLSR at Karshanad Booster 2 to GLSR at Theerthamala- Discharge 3 lps, Head 141 m</b>					
34.001	OD268732/2022-2023 - Supply erection,testing and commissioning of CF pumpset having a discharge of 3 lps for a head of 140 m from Karshanad Booster 2 to Theerthamala. Supply and erection of CF pump set with the following specification  1. Pump  Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete  The duty condition is as follows  Discharge -	2.000	no	517000.00	1034000.00	Rupees Ten Lakh Thirty Four Thousand Zero Zero Only





SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>3 lps&lt;br&gt;&lt;br&gt;Total head - 14 mtrs&lt;br&gt;&lt;br&gt;Size of pumping main pipe - 100 mm DI, Length- 874 m&lt;br&gt;&lt;br&gt;Speed- Less than 1500 rpm . 2 . Motor&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of KWA pre qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50 Hz AC supply, working voltage 415 V/3300V (select the suitable). The motor shall confirm to IE2/IE3 as per IS 12615-2018 including providing suitable concrete foundation including cost of cement sand and metal etc. complete For 3300v motors digital motor protection relay shall be included in starter as per CEA regulations 2010. Flexible coupling shall be used for coupling of pumps and motors. &lt;br&gt;&lt;br&gt;3. Starter&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air break contact for less than 100 HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contactor and bypass contactor as per CEA regulations 2010 and code of practice etc . complete.&lt;br&gt;&lt;br&gt;4. Panel board (suitable for operating two pump sets but one pump set at a time)&lt;br&gt;&lt;br&gt;Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 2 Nos of suitable capacity MCCB as out going</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>(the two MCCBs are interlocking with each other) providing suitable size Aluminium bus bar inter connect the above MCCBs and fitted with 3 Nos of indicator lamps, 1 No. volt meter with selector switch, 1 No. Ammeter with selector switch etc. Complete and provided with a common earth bus for the entire panel and inter connect with the MCCBs as per CEA regulations 2010 and code of practice. The panel shall be fitted on a common base frame on suitable foundation. (Specification may be modified if there is only one)&lt;br&gt;pump set by changing 2 Nos of out going as one out going and the provision of interlocking may be avoided)&lt;br&gt;5. C a b l i n g work&lt;br&gt;Supply, laying, testing and commissioning of suitable size XLPE cables for the above pump set from panel board to starter and from starter to motor. considering e n e r g y conservation.&lt;br&gt;6. Earthing&lt;br&gt;Supply of all materials and providing suitable earthing by using suitable size pipe/plate earthing GI/copper strip buried in ground and giving double earthing to motor, starter, panel board etc. as per IE standards.&lt;br&gt;7. Capacitor&lt;br&gt;Supply, erection, testing and commissioning of heavy duty APP capacitor for the motor to get a power factor above 0.95. The capacitor shall c o n f i r m t o I S 2 8 3 4 &lt;br&gt;8. Valves&lt;br&gt;Supply of suitable size best quality heavy duty ISI marked CI double flanged sluice valve and Non return valve with suitable pressure rating. Fitting of valves shall include proper RCC support especially for Non return valves. In case of positive</p>					



SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	suction pump set sluice valve should be in suction as well as delivery sides for easy repair works. 9. Suction and delivery pipe connections Supply and fitting of suitable size best quality GI/MS pipe of thickness not less than 8mm for a total length of 10 m. suitable for the above pump set and suitable size foot valve and connecting the suction pipe and valve with suitable flanges, nut and bolts IR sheet etc. complete and connecting the delivery side of the pump with the valves and suitable specials to connect with the pumping main. If the dia of suction pipe is above 80 mm CI pipes & specials shall be provided. Also two year Warrantee and Supply of ELCB/RCCB to be added at panel for safety.					
34.002	OD269277/2022-2023 - Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with	2.000	set	8000.00	16000.00	Rupees Sixteen Thousand Zero Zero Only
34.003	OD269548/2022-2023 - Earthing conductor of 3.15 mm (dia) copper conductor 10 SWG	2.000	set	6100.00	12200.00	Rupees Twelve Thousand Two Hundred Zero Only
34.004	OD269737/2022-2023 - Submitting application to KSEBL for power connection and power extension	1.000	L.S	3000.00	3000.00	Rupees Three Thousand Zero Zero Only

The above work awarded to the contractor A.DOMINIC,ABWPA8383R, at his quoted rate for individual items at a total accepted PAC 374357413( Thirty Seven Crore Forty Three Lakh Fifty Seven Thousand Four Hundred and Thirteen Only) as per the condition of the contract.

