

**MORMUGAO PORT TRUST  
ENGINEERING (CIVIL) DEPARTMENT**

**Name of Work: : Maintenance and upkeep of Water Supply System: AMC 2019-2020.**

**ABSTRACT**

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
1	Excavation in loose or soft soil including removal of obstructions such as small vegetations etc. if any. All labour ,materials ,tools and plants etc complete . complete.	M <sup>3</sup>	10	405.99	4059.93
2	Excavation in dense or hard soil/murum etc. including removal of obstructionetc. All labour ,materials ,tools and plants etc complete . if any complete.	M <sup>3</sup>	20	835.97	16719.31
3	Excavation in hard rock laterite boulders interspersed removal of obstructions etc. if any. All labour ,materials ,tools and plants etc complete . complete.	M <sup>3</sup>	10	1671.93	16719.31
4	Plain Cement concrete (1:2:4) using 20mm graded black trap agg. Etc. All labours, materials,tools and plants etc. complete.	M <sup>3</sup>	2	8339.68	16679.36
5	Description as detailed in item, no. 4 but for P.C.C (1:3:6). All labour ,materials ,tools and plants etc complete . complete.	M <sup>3</sup>	2	7483.27	14966.54
6	Providing and fixing shuttering for coloumn,beams,side walls etc. of any size and shape including cleaning etc.All labour ,materials ,tools and plants etc complete . complete.	M <sup>2</sup>	5	487.15	2435.73
7	Construction masonry using precast cement concrete blocks having a crushing strength of 35kg/cm <sup>2</sup> etc. All labour ,materials ,tools and plants etc All labour ,materials ,tools and plants etc complete.	M <sup>3</sup>	5	8314.12	41570.58
8	Providing and fixing to the wall floor etc. GI pipe (class-B)12/15mmdia including joining, and dismantling of old pipes etc. All labour ,materials ,tools and plants etc complete.	M	30	353.64	10609.06
9	Providing and fixing in trenches 12/15mmdia GI pipe (class-B), including all fittings and dismantling of old pipes but excluding excavation etc.All labour ,materials ,tools and plants etc complete	M	30	249.96	7498.77
10	P&F to the wall GI pipe 25mm dia (class B) including dismantling of old pipes etc. All labour ,materials ,tools and plants etc complete.	M	20	433.18	8663.60
11	P&F in trenches 25mm dia GI pipe (class B), including all fittings and dismantling of old pipes but excluding excavation etc. All labour ,materials ,tools and plants etc complete.	M	250	393.41	98351.91
12	P&F to the trenches wall 40mmdia G.I pipe (classB),including all fittings and dismantling of old pipes but excluding excavation etc. All labour ,materials ,tools and plants etc complete.	M	30	592.25	17767.38
13	P&F in trenches 50mmdia G.I pipe (classB),including all fittings and dismantling of old pipes but excluding excavation etc. All labour ,materials ,tools and plants etc complete.	M	50	703.03	35151.26
14	P&L in trenches 80 mm dia G.I pipe (classB), including all fittings and including dismantling of old pipes but excluding excavation etc. All labour ,materials ,tools and plants etc complete.	M	20	1163.18	23263.65
15	P&L in trenches,walls etc 100 mm dia G.I pipe (class B), including all fittings and including dismantling of old pipes but excluding excavation etc.All labour ,materials ,tools and plants etc complete.	M	50	1674.47	83723.64
16	Providing connection to the Existing 20mm PPR pipe with UPVC pipe (15 mm dia) with necessary specials required for joining PPR pipe specials and Upvc pipe specials at the both the ends of repair work , including cutting existing pipe and inserting necessary specials required for PPR pipe (Brass MTA) and UPVC pipe ( Brass FTA) ,necessary instruments /solution required for joining and cutting PPR pipe and upvc pipe .The cost to include all specials required at both the ends of repair work , necessary breaking the wall and making good the same , necessary scaffolding required for working at above ground level except the cost of upvc pipe 15mm dia if laid between the repair work which will be paid under item no 25 (per joint represent PPR and upvc specials required at one end of joint ). All labour, material, tools and plants Etc complete.	per joint	2	690.24	1380.48

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
17	Providing connection to the Existing 32mm PPR pipe with UPVC pipe ( 25 mm dia ) with necessary specials required for joining PPR pipe specials and Upvc pipe specials at the both the ends of repair work , including cutting existing pipe and inserting necessary specials required for PPR pipe ( Brass MTA)and UPVC pipe( Brass FTA) ,necessary instruments /solution required for joining and cutting PPR pipe and upvc pipe .The cost to include all specials required at both the ends of repair work , necessary breaking the wall and making good the same , necessary scaffolding required for working at above ground level except the cost of upvc pipe 25 mm dia if laid between the repair work which will be paid under item no 27 (per joint represent PPR and upvc specials required at one end of joint ) . All labour , material , tools and plants Etc complete.	per joint	2	1602.03	3204.06
18	Providing connection to the Existing 50mm/63 mm PPR pipe with UPVC pipe ( 40mm/50 mm dia ) with necessary specials required for joining PPR pipe specials and Upvc pipe specials at the both the ends of repair work , including cutting existing pipe and inserting necessary specials required for PPR pipe (Brass MTA)and UPVC pipe (UPVC Threaded socket on one side) ,necessary instruments /solution required for joining and cutting PPR pipe and upvc pipe .The cost to include all specials required at both the ends of repair work , necessary breaking the wall and making good the same , necessary scaffolding required for working at above ground level and necessary tools required for exposing the pipe except the cost of upvc pipe 50 mm dia , if laid between the repair work which will be paid under item no 29/30 (per joint represent PPR and upvc specials required at one end of joint ) . (cost of excavation will be paid as per item no 1,2,3 as the case may be) All labour , material , tools and plants Etc complete.	per joint	2	3069.15	6138.30
19	P & L in wall, floor, trenches etc , 15mm dia C.P.V.C pipe ( SDR 11) of prince make or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes , , . All cutting threading and joining materials cost pipes and specials , etc. , excluding the cost of excavation but including breaking the wall/ floor /chajja and making good the same .All labour materials , tools , plants etc. complete.	M	10	247.12	2471.25
20	P & L in wall, floor trenches etc , 20mm dia C.P.V.C pipe( SDR 11)of prince make or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes , , . All cutting threading and joining materials cost pipes and specials , etc. , excluding cost of excavation but including cost of breaking the wall/ floor /chajja and making good the same .All labour materials , tools , plants etc. complete.	M	5	282.63	1413.14
21	P & L in wall, floor .trenches etc, 12/ 15mm dia U.P.V.C pipe of prince make (schedule 40) or equivalent including joining with sockets, bends, Tees, specials, Reducer specials of required size for connecting existing pipes. All cutting threading and joining materials cost pipes and specials etc.,excluding cost of excavation but including cost of breaking the wall/ floor /chajja and making good the same .All labour materials, tools, plants etc. complete.	M	300	208.78	62632.64
22	P & L in wall, floor .trenches etc , 20mm dia U.P.V.C pipe ( schedule 40) of prince make or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes , , . All cutting threading and joining materials cost pipes and specials , etc. ,excluding cost of excavation but including cost of breaking the wall/ floor /chajja and making good the same .All labour materials , tools , plants etc. complete.	M	50	237.18	11858.79
23	P & L in wall, floor ,trenches etc , 25mm dia U.P.V.C pipe of prince make( schedule 40) or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes , , . All cutting threading and joining materials cost pipes and specials , etc. , excluding cost of excavation but including cost of breaking the wall/ floor /chajja and making good the same .All labour materials , tools , plants etc. complete.	M	200	311.03	62205.75

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
24	P & L in wall, floor, trenches etc , 32mm dia U.P.V.C pipe of prince make( schedule 40) or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes. All cutting threading and joining materials cost pipes and specials, etc., excluding cost of excavation but including cost of breaking the wall/ floor / chajja and making good the same .All labour materials, tools, plants etc. complete.	M	15	389.15	5837.26
25	P & L in wall, floor ,trenches etc , 40mm dia U.P.V.C pipe of prince make (schedule 40) or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes. All cutting threading and joining materials cost pipes and specials, etc. excluding cost of excavation but including cost of breaking the wall/ floor / chajja and making good the same. All labour materials, tools, plants etc. complete.	M	20	448.80	8975.95
26	P & L in wall, floor ,trenches etc , 50mm dia U.P.V.C pipe of prince make( schedule 40) or equivalent including joining with sockets ,bends, Tees , specials ,Reducer specials of required size for connecting existing pipes , , . All cutting threading and joining materials cost pipes and specials , etc. , excluding cost of excavation but including cost of breaking the wall/ floor /chajja and making good the same .All labour materials , tools , plants etc. complete.	M	50	589.40	29470.00
27	Providing and fixing UPVC ball valve of 15 mm dia , including providing necessary specials for joining , necessary solution ,etc. All labour , materials, tools , plants etc complete.	Nos.	40	241.44	9657.79
28	Providing and fixing UPVC ball valve of 20 mm dia , including providing necessary specials for joining , necessary solution ,etc. All labour , materials, tools , plants etc complete.	Nos.	5	301.09	1505.46
29	Providing and fixing UPVC ball valve of 25 mm dia , including providing necessary specials for joining , necessary solution ,etc. All labour , materials, tools , plants etc complete.	Nos.	40	401.93	16077.35
30	Providing and fixing UPVC ball valve of 32-mm dia, including providing necessary specials for joining, necessary solution ,etc. All labour , materials, tools , plants etc complete.	Nos.	4	515.55	2062.19
31	Providing and fixing UPVC ball valve of 40mm dia , including providing necessary specials for joining , necessary solution ,etc. All labour , materials, tools , plants etc complete.	Nos.	4	715.81	2863.23
32	Providing and fixing UPVC ball valve of 50mm dia , including providing necessary specials for joining , necessary solution ,etc. All labour , materials, tools , plants etc complete.	Nos.	10	1062.34	10623.41
33	Providing/Fixing in position approved make/ quality water meter or equivalent water meter 12/15mm dia withISI mark of approve design and pattern etc. All labour ,materials ,tools and plants etc complete.	Nos.	1	3133.06	3133.06
34	Providing/Fixing in position approved make/ quality water meter or equivalent water meter 25mm dia with ISI mark of approved design and pattern etc.All labour ,materials ,tools and plants etc complete.	Nos.	1	5710.80	5710.80
35	Providing/Fixing in position approved make/ quality water meter or equivalent water meter 50mm withISI mark of approve design and pattern dia etc. All labour ,materials ,tools and plants etc complete.	Nos.	1	18429.10	18429.10
36	Providing/Fixing in position approved ISI make/ quality water meter or equivalent water meter 100 mm dia with ISI mark of approve design and pattern etc.All labour ,materials ,tools and plants etc complete.	Nos	1	22830.44	22830.44
37	P/L in position cast iron socket and Spigot /flanged pipe (class A) quality etc. etc. complete. Including all specials such as collors etc. All labour ,materials ,tools and plants etc complete.				
a	80mm dia	M	5	890.49	4452.46
b	100mm dia	M	5	1445.81	7229.06
c	150mm dia	M	5	2018.17	10090.85
38	Providing lead jointing to cast iron pipe and specials by caulking with molten lead and packing spun yarn etc. complete.etc. All labour ,materials ,tools and plants etc				
a	80mm dia	Nos.	1	492.83	492.83

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
b	100mm dia	Nos.	1	576.62	576.62
c	150mm dia	Nos.	1	870.61	870.61
39	Providing tyton joints to cast iron pipe and specials etc. including necessary materials etc. All labour ,materials ,tools and plants etc complete.				
a	80mm dia	Nos.	1	52.54	52.54
b	100mm dia	Nos.	1	66.75	66.75
c	150mm dia	Nos.	1	82.38	82.38
40	Providing flanged joints to cast iron pipes and specials including all materials such as 3-mm thick rubber insertion, necessary bolts, nuts, washers, testing the joints etc. as directed. All labours, materials etc. complete.				
a	For 80mm dia. CI pipe.	Nos.	5	240.02	1200.11
b	For 100mm dia. CI pipe.	Nos.	5	428.91	2144.56
c	For 150mm dia. CI pipe.	Nos.	5	774.03	3870.16
41	P/F cast iron sluice valve of ISI mрак with approved make/pattern quality class etc.All labour ,materials ,tools and plants etc complete.			0.00	
a	80mm dia	Nos.	1	11217.10	11217.10
b	100mm dia	Nos.	1	17849.64	17849.64
c	150mm dia	Nos.	1	24702.31	24702.31
42	Fabricating & erecting in position structural steel works in light sections including cutting, hoisting, fixing in position cleaning, painting with two coats of synthetic enamel paint over a coat of red lead etc. All tools & plants labour materials etc complete..	Q	15	10872.78	163091.76
43	Plastering with C.M(1:5)mm thick in single coat for masonry wall etc. complete.	M <sup>2</sup>	10	205.94	2059.41
44	Painting iron/metal works with approved coat of red lead and two coats of approved enamel paints etc. complete.	M <sup>2</sup>	100	79.53	7953.29
45	Cleaning of open wells such as removal of floating substances removal of weeds all around the surrounding of well 6.00m from well parapet , treating the well with approved chemical etc. including during monsoon period as and when found necessary. All labours, materials etc. complete.	Nos.	1	3543.51	3543.51
46	Soling with hard laterite rubble stone of 20cm to 30cm size including hand packing etc. complete. All labours, materials ,tools and plants etc. complete.	M <sup>3</sup>	5	1994.03	9970.14
47	Providing and laying cast iron special for CI pipe. As per IS specification. All labours, materials ,tools and plants etc. complete.	Kgs	40	99.42	3976.77
48	Providing and laying M.S special for CI pipe. Including necessary paintings. All labours, materials ,tools and plants etc. complete.	Kgs	40	99.42	3976.77
49	Supply of labours for various works of water supply section in M.P.T area.Labour (male <b>with tools &amp; plants</b> )	Nos.	100	640.00	64000.00
50	Supply of labours for various works of water supply section in M.P.T area.Labour (male)	Nos.	250	609	152250.00
51	Supply of Plumbers for various works of water supply section in M.P.T area.	Nos.	150	807.00	121050.00
52	Supply of Carpenters for various works of water supply section in M.P.T area.	Nos.	10	807.00	8070.00
53	Supply of Mason for various works of water supply section in M.P.T area.	Nos.	10	807.00	8070.00
54	Supplying and fixing in position water storage tank, cylindrical, vertical type with closed top of "SINTEX/SHAKTI BRAND" or equivalent type single piece moulded HDPE tank by providing necessary fittings of 1" size such as plain socket, tank connector, FT, MT, etc. All labours, materials ,tools and plants etc. complete.	Ltrs.	3000	9.94	29811.52
55	Fixing in position water storage tank, cylindrical, vertical type with closed top of 1000 ltrs. To 2000 liters capacity single piece molded low density of polythelene supplied departmentally free of cost, stacked at Headland Site Office including transporting and lifting the tank to the site / terrace in the Port area including dismantling old tanks and pipes handing over the old fittings to the site office including providing necessary fittings of 1" size such as plain socket, tank connector, FT, MT, etc. All labours, materials ,tools and plants etc. complete.	Nos.	30	870.61	26118.16

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
56	P/F G.M wheel valve 50mm dia,of ISI mark , medium class of approved make and pattern .All labours, materials ,tools and plants etc. complete.	Nos.	10	3276.50	32765.04
57	P/F G.M wheel valve 25mm dia,of ISI mark , medium class of approved make and pattern etc. complete.	Nos.	10	1972.72	19727.18
58	Providing 100-mm dia. GI long bend of approved make Class-B with ISI mark . All labour. Materials ,tools and plants etc. complete.	Nos.	4	1420.24	5680.98
59	Repairing of foot valve of GM 2" dia incl. dismantling of pipes lifting from the sump, at a depth of around 3m, fixing with proper jute yarn, threading the pipe etc. reassembling the pipe to required alignment including taking trial of pump function etc. All labour ,materials ,tools and plants etc complete .	Nos.	1	1947.47	1947.47
60	Replacing foot valve of GM 2" dia including dismantling of pipes lifting from the sump, at a depth of around 3 m, fixing with proper jute yarn, threading the pipe etc. reassembling the pipe to required alignment including taking trial of pump function etc. All labour ,materials ,tools and plants etc complete . complete.	Nos.	1	4950.98	4950.98
61	Repairing pump foot valve of size 4"dia including dismantling of GI flanged pipes, lifting from the Jetty well about 6.00 m depth, cleaning the foot valve, replacing foot valve gate sheet reassembling the foot valve dismantling suction pipe etc. including taking trial of the pump functioning etc at At jetty well. All labours, materials etc. complete.	Nos.	1	2288.02	2288.02
62	Replacing GM/CI pump foot valve of size 4"dia including dismantling of GI flanged pipes, lifting from the Jetty well about 6.00 m depth, cleaning the foot valve, replacing foot valve gate sheet reassembling the foot valve dismantling suction pipe etc. including taking trial of the pump functioning etc at at jetty well. All labours, materials etc. complete.	Nos.	1	10492.76	10492.76
63	Repairing CI /GM pump foot valve of size 6"dia including dismantling of GI/CI flanged pipes, lifting from the about 3.00 m depth, cleaning the foot valve, replacing foot valve gate sheet reassembling the foot valve dismantling suction pipe etc. including taking trial of the pump functioning etc at Old power house. All labours, materials,tools and plants ,including cost of divers etc. complete.	Nos.	1	5443.80	5443.80
64	Repairing CI foot valve of size 200 mm dia fixed to the fire fighting electrical /diesel pump including dismantling of MS/GI/CI flanged pipes, lifting from the return face of Berth no 10 at GCB about 5.00 m depth,by means of mechanical means either buy chain pulley or crane etc removing and refitting of MS welded mesh cleaning the foot valve, replacing foot valve gate sheetwith approved quality leather/rubber sheet reassembling the foot valve dismantling suction pipe etc. replacing the required nos of ss nuts ,bolts ,washer including taking trial of the pump functioning etc at beth no 10 or at any other place within port area . All labours, materials,tools and plants ,including cost of divers etc. complete.	Nos	5	10011.31	50056.55
65	Providing and laying flanged joints for GI pipes and special including all materials such as 3mm thick rubber in suction necessary bolts, nuts, etc. as described. Alllabor, materials , tools and plants etc. complete.				
	a) For 80mmdia GI pipe.	Nos.	10	284.05	2840.51
	b)For 100mm dia GI pipe.	Nos.	10	355.06	3550.58
66	Weeding by chopping/cutting all type of wild growth such as shrubs, creepers plants, bushes etc. uprooting of small vegetation of areas near all major valves, Headland reservoir tank , 800m3 tank ,steamer tank and hospital bore wellarea as indicated by the CE or his representative , ensuring there is no weeds in the area, pruning of tree branches, handing over these area to the department in complete weeded condition including stacking the weeded debris and disposing by transporting awaywithin 2 kms area /burying the same in the excavated pit as directed by Chief Engineer or his representative . All laboue, materials, tools and plants etc complete.	Sq M	500	2.85	1422.98
67	Credit for taking away old dismantle G.I pipelines				
	a) 12/15 mm dia GI line	M	50	1.42	-71.15
	b) 25 mm dia GI line	M	50	2.85	-142.30
	c) 40 mm dia GI line	M	25	4.26	-106.43
	d) 50 mm dia GI line	M	50	7.10	-355.15
	e) 80 mm dia GI line	M	10	9.94	-99.37
	f) 100 mm dia GI line	M	10	11.36	-113.60

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
68	Credit for taking away old submersible pump of borewell having capacity of 5 HP	Nos.	2	7101.22	-14202.45
69	Periodic cleaning of R.C.C water tank of capacity 50000-75000 liters at CHLD colony OHT & AO Bldg OHT with scientific method using high pressure jets with antibacterial treatment etc. as directed. All labours, materials etc. complete	Nos	2	6037.54	12075.08
70	Description as detailed in item, no. 69 but for water tanks of capacity above 75,000 lit to 100,000 litres. Bharatlines sump and GCB sump at MOHC All labour ,materials ,tools and plants etc complete . complete.	Nos.	2	7322.95	14645.90
71	Description as detailed in item, no. 69 but for OH water tanks of capacity 325000 liters. Behind Primary School All labour ,materials ,tools and plants etc complete . complete.	Nos.	1	11436.87	11436.87
72	Description as detailed in item, no. 69 but for water tanks of capacity 444000 liters. UG Sump Behind Primary School All labour ,materials ,tools and plants etc complete . complete.	Nos.	1	13101.31	13101.31
73	Description as detailed in item, no. 69 but for OH water tanks of capacity 500000 litres. near CISF colony All labour ,materials ,tools and plants etc complete . complete.	Nos.	1	13932.78	13932.78
74	Description as detailed in item, no. 69 but for water tanks of capacity 550000 liters. Surface Tank Behind Primary School & steamer tank All labour ,materials ,tools and plants etc complete . complete.	Nos.	1	14099.07	14099.07
75	Description as detailed in item, no. 69 but for water tanks of capacity 800000 liters. Near hospital All labour ,materials ,tools and plants etc complete . complete.	Nos.	1	14765.75	14765.75
76	Periodic cleaning of HDPE water tank of building type C,D, school building, and other building of tank capacity 500 liters with brooms discharging waste water, application of bleaching powder washing properly tying/replacing mosquitoes proof nylon net. covering the tank manhole properly etc. as directed. All labours, materials etc. complete.	Nos.	10	295.13	2951.29
77	Description as detailed in item, no. 76 but for water tanks of capacity 1000 liters. All labour ,materials ,tools and plants etc complete . complete.	Nos.	300	383.53	115058.32
78	Description as detailed in item, no. 76 but for water tanks of capacity 2000 liters. All labour ,materials ,tools and plants etc complete . complete.	Nos.	100	405.99	40599.33
79	Description as detailed in item, no. 76 but for water tanks of capacity 5000 liters. All labour ,materials ,tools and plants etc complete . complete.	Nos.	50	428.47	21423.56
80	Periodic cleaning of R.C.C water tank of building type A,B,C,D. Bungalows guest house, school building, CISF barracks and other building of tank capacity from 2000lit to upto 4000 liters with brooms discharging waste water, application of bleaching powder washing properly tying/replacing mosquitoes proof nylon net. covering the tank manhole properly etc. as directed. All labours, materials etc. complete.	Nos.	100	350.57	35056.74
81	Description as detailed in item, no. 80 but for water tanks of capacity above 4000 lit to upto 6000 liters. All labour ,materials ,tools and plants etc complete . complete.	Nos.	100	395.51	39551.10
82	Description as detailed in item, no. 80 but for water tanks of capacity above 6000 lit to upto 10000 liters. All labour ,materials ,tools and plants etc complete . complete.	Nos.	10	440.45	4404.55
83	Description as detailed in item, no. 80 but for water tanks of capacity above 10000 to upto 20000 liters. All labour ,materials ,tools and plants etc complete . complete.	Nos.	10	717.61	7176.09
84	Description as detailed in item, no. 80 but for water tanks of capacity above 20000 lit upto 50000 liters. At Guesthouse ,CISF barracks & AO Bldg All labour ,materials ,tools and plants etc complete . complete.	Nos.	8	2221.75	17773.99
85	Description as detailed in item, no. 80 but for water tanks of capacity of 100000 liters. At old power house OHT. All labour, materials ,tools and plants etc complete.	Nos	2	13333.52	26667.04

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
86	Description as detailed in item, no. 80 but for water tanks of capacity of 200000 liters at Old power house sump All labour ,materials ,tools and plants etc complete .	Nos	2	14165.00	28329.99
87	Painting a board base of size 40cm x 15cm with synthetic enamel paint on RCC water tank/HDPE water tanks , etc. All labour and materials, tools and plants etc complete.	Nos.	500	38.35	19174.71
88	Writing the letter/numbers on the RCC tanks /HDPE water tanks mentioning the year and month of cleaning of tank of letter size of 60mm high and 5 mm width etc.. All labour and materials, tools and plants complete.	Nos.	500	55.39	27694.83
89	Providing and fixing CP bib cock ( heavy duty) of 15 mm dia EECO /Arvee brand or equivalent approved make and pattern ,including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement . All labour materials tools and plants etc complete.	Nos	5	928.84	4644.20
90	Providing and fixing CP short body bib cock of 15 mm( medium) EECO /Arvee brand or equivalent dia of approved make and pattern including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement All labour materials tools and plants etc complete.	Nos	25	755.57	18889.22
91	Providing and fixing CP pillar tap of 15 mmdia of heavy duty EECO /ARVEE brand or equivalent approved make and pattern,including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement . All labour materials tools and plants etc complete.	Nos	10	1016.90	10169.00
92	Providing and fixing CP pillar tap of 15 mmdia of medium class EECO /ARVEE brand or equivalent dia of approved make and pattern ,including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement . All labour materials tools and plants etc complete.	Nos	15	783.97	11759.54
93	Providing and fixing CP long body bib cock of 15 mm dia of Jaguar make or equivalent of approved make and pattern,including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement . All labour materials tools and plants etc complete.	Nos	10	1400.36	14003.59
94	Providing and fixing CP waste coupling 32 mm dia of approved make and pattern including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement . All labour materials tools and plants etc complete.	Nos.	20	328.08	6561.62
95	Providing and fixing wash basin of vitreous . China 550x440mmof HINDWARE MAKE or equivalent with all accessories etc.( accessories of approved brand such as EECO /Arvee brand)including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement complete.All labour materials tools and plants etc complete.	Nos	10	4378.62	43786.17
96	S/F P.V.C. flushing cistern 10 liters capacity (Master make) or equivalent including fixing to the wall, providing PVC flexible pipe 15 mm dia (18" long) for inlet and providing PVC outlet pipe 32 mm dia( upto 2m length), providing necessary connection to the tank and water closet etc breaking & making good to the wall, including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement .All tools, plants, labour & material etc complete	Nos	15	1991.18	29867.72
97	Providing and fixing PVC flexible pipe 15 mm dia (24" long, heavy duty). including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement. All labour materials. tools and plants etc complete	Nos	25	203.10	5077.38
98	Providing and fixing PVC flexible pipe 15 mm dia (18" long, heavy duty). including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement. All labour materials tools and plants etc complete	Nos	10	178.95	1789.52
99	P/F PVC flexible pipe 32 mm dia for wash basin outlet , including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement . All labour materials tools and plants etc complete	Nos	20	123.56	2471.25
100	P/F CP angle cock 15 mm dia aproved make and pattern, including removing the old fittings/pipes and refixing the new fittings and handing over unserviceble materials to departement.All labour materials m tools and plants etc complete.	Nos	15	585.14	8777.14

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
101	P/F CP concealed stop cock 15 mm dia aproved make and pattern, including removing the old fittigs/pipes and refixing the new fittings and handing over unserviceble materials to departement. All labour, materials , tools and plants etc complete.	Nos	15	842.20	12633.07
102	Providing and fixing wash basin of vitreous China 550x440 mm HINDWARE MAKE OR equivalent with waste coupling, including removing the old pipes and fittings and refixing the new one and returning the unserviceable materials to dept etc. complete.All labour, materials , tools and plants etc complete	Nos	24	3022.28	72534.62
103	Providing and fixing brass float valve 25 mm dia of ONIDA make or equivalent, with necessary specials and ball , including removing the old fittigs/pipes and refixing the new fittings and handing over unserviceble materials to departement etc. All labour ,materials , tools and plants etc complete	Nos	12	1327.93	15935.14
104	Providing and fixing brass float valve 50 mm dia of ONIDA make or equivalent, with necessary specialsand ball , including removing the old fittigs/pipes and refixing the new fittings and handing over unserviceble materials to departement etc. All labour ,materials , tools and plants etc complete	Nos	1	6290.27	6290.27
105	Providing and fixing PVC pipe 32 mm dia ( of class 15 kgs/m2) of upto 100 cms for kitchen sink /wash basin outlet pipe with necessary bends like tee , bend ,socket, plug etc and required solution for joining, including removing the old pipes and fittings and refixing the new one and returning the unserviceable materials to dept .All labour , materials , tools. Plants etc complete.	Nos	20	238.60	4771.98
106	Supplying and installation of submersible motor pump set of 5 HP capacity ISI mark KSB brand or any other equivalent approved make/ brand of Model CORA 100-7C/25 + UMAI 100-3.7./22, 440 V, 3 phase, DOL Disch. M3/ hr Range: 4.0, 5.5, 7.0, 8.5, 10.0 Head (M) Range: 150, 138, 120, 95, 55 Max. Pump Dia: 4", Outlet:1.5", or as per the site conditions as required including fixing with necessary accessories. All tools, plants, labour and materials etc. complete.	Nos.	1	68478.52	68478.52
107	Supplying and installation of 50-mm dia HDPE heavy duty riser pipe of single length having ISI mark of FINOLEX or equivalent brand for fixing to the pump described in Item no. 106 above including cutting, fixing laying with all required fittings etc. All tools, plants, labour & material etc. complete.	RM	50	460.62	23031.00
108	Setting of the drill equipment for flushing of the existing bore well mechanically by using DTH rig including of diesel, labour and miscellaneous items, transportation etc. All tools, plants, labour and materials etc. complete.	Nos	1	60996.67	60996.67
109	Repairs to the existing bore well pump by taking up the following works mentioned below. including All labour ,materials ,tools and plants etc complete . complete				



Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
	(a) Removing the existing bore well pump of 5 HP fitted with HDPE Pipe of a depth of about minimum 60 mtrs.	Nos.	2	8126.64	16253.28
	(b) Rewinding the motor of Submersible pump of 5 HP capacity	Nos.	1	10154.75	10154.75
	(c) Repairs to Motor bush	Nos.	1	1847.73	1847.73
	(d) Repairs to Motor test bearing with plate	Nos.	1	3053.52	3053.52
	(e) Repairs to Motor Rotary polish	Nos.	1	4709.53	4709.53
	(f) Repairs to Motor stamping	Nos.	1	1498.35	1498.35
	(g) Repairs to Motor oil seal	Nos.	1	1104.95	1104.95
	(h) Repairs to Motor sleeve	Nos.	1	1262.60	1262.60
	(i) Repairs to Pump impeller	Nos.	1	237.18	237.18
	(j) Repairs to Pump bush	Nos.	1	1815.08	1815.08
	(k) Repairs to Pump assembly shaft	Nos.	1	3076.25	3076.25
	(l) Repairs to Pump head	Nos.	1	4654.14	4654.14
	(m) Repairs to Pump collar	Nos.	1	1183.07	1183.07
	(n) Repairs to Cable joint with water proof tape	Nos.	2	788.24	1576.48
110	Providing temporary scaffolding with bamboo / G.I. pipes in duct portion of Hospital as well as for buildings at colony for replacing damaged water pipeline .				
111	for height between 3.00m-6.20m and width 2.0 metre	Nos.	3	951.95	2855.86
112	for height between 6.21 & 9.20m and width 2.0 metre	Nos.	5	1361.39	6806.96
113	for height between 9.21m & above and width 2.0 metre	Nos.	3	1903.89	5711.68
114	Repairs of RCC tank washout pipe including welding the existing pipe with new G.I.pipe / replacing it with new G.I. pipe of approx 65mm dia along with fittings and accessories, plugging the pipe, sealing of joints etc. , complete	Nos.	10	799.13	7991.28
115	Repairs of RCC tank inlet pipe including chisel the wall surface replacing the old corroded 1" dia approx. G.I. pipe of approx. length 30cm with new G.I. pipe along with fittings and accessories, sealing of joints etc. , complete	Nos.	10	623.11	6231.13
116	Providing/ replacing the damaged 1" dia UPVC /APVC approx. tank connector of HDPE tank with new tank 1" dia approx. A.P.V.C./ U.P.V.C.tank connector including removing and refixing the existing pipe.	Nos.	10	321.16	3211.56

Item No	Description of work	Unit of Qty	Qty.	Rate	Total Amount
117	Transportation of small plumbing fixtures/fittings, flexible pipes, pumps etc, including shifting of Departmental Fitters, staff's at various point of work including inspection of plumbing systems on any days including Sundays and Holidays, as directed, with 4- wheeler vehicle Jeep , including transportation of Port Officials to Public Work Department Offices, Water Resources Department Offices, Directorate of Health Service Offices, etc. for water supply/ Meter Bills/ renewals/permissions/ water sample testing, etc.	KM	1000	35.57	35574.60
118	Providing and fixing C.I. foot valve of size 200mm/8" dia fixed to the fire fighting electrical /diesel pump including dismantling of MS/GI/CI flanged pipes, lifting from the return face of Berth no 10 at GCB about 5.00 m depth,by means of mechanical means either buy chain pulley or crane etc , dismantling suction pipe etc. replacing the required nos of S.S. nuts ,bolts ,washer if found unserviceable including taking trial of the pump functioning etc at berth no 10 or at any other place within port area . All labours, materials,hiring of crane if required, tools and plants , etc.	Nos.	1	20303.61	20303.61
119	Repairing CI pump foot valve of size 250 mm dia at MMs Complex by engaging divers for the underwater works with necessary tools and safty equipments as per the statutory requirements, including dismantling of MS/GI/CI flanged pipes, lifting from the sumpwell,by means of mechanical means either buy chain pulley or crane etc , cleaning the foot valve, replacing foot valve gate sheetwith approved quality leather/rubber sheet reassembling the foot valve dismantling suction pipe etc. replacing the required nos of nuts ,bolts ,washer including taking trial of the pump functioning etc.All labours, materials,tools and plants ,including cost of divers etc. complete.	Nos.	1	8000.00	8000.00
				TOTAL in Rs.	<b>2553075.70</b>