



RAHSTRIYA ISPAT NIGAM LIMITED
VISAKHAPATNAM STEEL PLANT
VISAKHAPATNAM - 530031

BILL OF QUANTITIES

PR No / Date: 72000090 / 20.04.2015	Report Date : 23.04.2015
Pur . Org.: PERSONNEL CONTRACTS	
MSS: TAW0612151 : MISC WS MAINT WORKS SEC 06-12 215-17	
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Sl.No	Service Number	Description of the item	Qty	UOM	Rate	Amount
1	310001985	Earth work in excavation in all types of soils, in foundation, trenches, drain etc., at all depths including dewatering, disposing surplus earth with a lead of 50 Mtr. Including all labour, tools, tackles etc., complete as per specifications and/or as directed by the Engineer.	100.000	M3	47.75	4,775.00
2	310001986	Filling with available excavated earth up to a lead of 50 Mtrs. (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cms in depth, consolidating each deposited layer by ramming and watering, including all labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	100.000	M3	21.69	2,169.00
3	310001987	Making connection to the G.I main line with the G.I distribution branch pipes of 20mm to 40mm nominal bore by providing and fixing tee, including cutting and threading the pipe including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	5.000	EA	111.48	557.40
4	310001988	Making connection to the C.I main line with the G.I distribution branch pipes of 50mm to 80mm nominal bore by providing and fixing tee, including cutting and threading the pipe including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	10.000	EA	246.62	2,466.20
5	310001989	Providing and fixing 20mm dia FERRULE connection to the existing C.I main line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	5.000	EA	266.08	1,330.40
6	310001990	Making threaded holes in the existing C.I pipe lines and providing and fixing of nipple and elbow of 20mm/ 25mm/32mm dia including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	10.000	EA	162.61	1,626.10
7	310001991	Supplying and fixing of medium duty Galvanized Iron tested pipes conforming to IS: 1239 including supply and fixing of required galvanized iron specials at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (preferred makes TC/Jindal/Prakash/ zinith/ QST) a) 15 mm dia nominal bore	100.000	RM	107.36	10,736.00
8	310001992	Supplying and fixing of medium duty Galvanized Iron tested pipes conforming to IS: 1239 including supply and fixing of required galvanized iron specials at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (preferred makes TC/Jindal/Prakash/ zinith/ QST) b) 20 mm dia nominal bore	100.000	RM	117.08	11,708.00
9	310001993	Supplying and fixing of medium duty Galvanized Iron tested pipes conforming to IS: 1239 including supply and fixing of required galvanized iron specials at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (preferred makes TC/Jindal/Prakash/ zinith/	10.000	RM	158.62	1,586.20



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		QST) c) 25 mm dia nominal bore				
10	310001994	Supplying and fixing of medium duty Galvanized Iron tested pipes conforming to IS: 1239 including supply and fixing of required galvanized iron specials at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (preferred makes TC/Jindal/Prakash/ zinith/ QST) d) 32 mm dia nominal bore	50.000	RM	172.21	8,610.50
11	310001995	Supplying and fixing of medium duty Galvanized Iron tested pipes conforming to IS: 1239 including supply and fixing of required galvanized iron specials at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (preferred makes TC/Jindal/Prakash/ zinith/ QST) e) 40 mm dia nominal bore	10.000	RM	198.93	1,989.30
12	310001996	Supplying and fixing of medium duty Galvanized Iron tested pipes conforming to IS: 1239 including supply and fixing of required galvanized iron specials at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (preferred makes TC/Jindal/Prakash/ zinith/ QST) f) 50 mm dia nominal bore	10.000	RM	189.32	1,893.20
13	310001997	Laying of GI pipes including aligning and matching with the existing water supply lines at all levels including GI specials, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Only GI pipes will be issued free of cost from Town Maintenance stores/Site) a) 15 mm dia	200.000	RM	21.74	4,348.00
14	310001998	Laying of GI pipes including aligning and matching with the existing water supply lines at all levels including GI specials, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Only GI pipes will be issued free of cost from Town Maintenance stores/Site) b) 20 mm dia	50.000	RM	25.96	1,298.00
15	310001999	Laying of GI pipes including aligning and matching with the existing water supply lines at all levels including GI specials, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Only GI pipes will be issued free of cost from Town Maintenance stores/Site) c) 25/32 mm dia	20.000	RM	38.97	779.40
16	310002000	Laying of GI pipes including aligning and matching with the existing water supply lines at all levels including GI specials, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Only GI pipes will be issued free of cost from Town Maintenance stores/Site) d) 40/50 mm dia	10.000	RM	46.70	467.00
17	310002001	Laying of GI pipes including aligning and matching with the existing water supply lines at all levels including GI specials, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Only GI pipes will be issued free of cost from Town Maintenance stores/Site) e) 65 mm dia	10.000	RM	43.71	437.10
18	310002002	Laying of GI pipes including aligning and matching with the existing water supply lines at all levels including GI specials, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Only GI pipes will be issued free of cost from Town Maintenance stores/Site) f) 80 mm dia	10.000	RM	42.73	427.30
19	310002003	Removing existing G.I pipes from the pipe lines for cleaning the internal chokages, removing the chokage and relaying/refixing the	500.000	RM	19.96	9,980.00



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		pipes, matching with existing G.I lines and testing the pipes including supplying of required specials for jointing including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 15 mm dia				
20	310002004	Removing existing G.I pipes from the pipe lines for cleaning the internal chokages, removing the chokage and relaying/refixing the pipes, matching with existing G.I lines and testing the pipes including supplying of required specials for jointing including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 20 mm dia	3,000.000	RM	32.86	98,580.00
21	310002005	Removing existing G.I pipes from the pipe lines for cleaning the internal chokages, removing the chokage and relaying/refixing the pipes, matching with existing G.I lines and testing the pipes including supplying of required specials for jointing including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 25/32 mm dia	600.000	RM	43.42	26,052.00
22	310002006	Removing existing G.I pipes from the pipe lines for cleaning the internal chokages, removing the chokage and relaying/refixing the pipes, matching with existing G.I lines and testing the pipes including supplying of required specials for jointing including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 40/50 mm dia	20.000	RM	49.39	987.80
23	310002007	Removing existing G.I pipes from the pipe lines for cleaning the internal chokages, removing the chokage and relaying/refixing the pipes, matching with existing G.I lines and testing the pipes including supplying of required specials for jointing including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 65 mm dia	50.000	RM	57.33	2,866.50
24	310002008	Removing existing G.I pipes from the pipe lines for cleaning the internal chokages, removing the chokage and relaying/refixing the pipes, matching with existing G.I lines and testing the pipes including supplying of required specials for jointing including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 80 mm dia	10.000	RM	67.25	672.50
25	310002009	Supplying, laying and fixing of medium duty galvanized iron tested pipes conforming to IS: 1239 of approved make and removal of damaged/rusted GI pipes, specials and dismantling of masonry/ concrete pedestals, walls as necessary and making good after laying in the pipe line at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 15mm dia	500.000	RM	127.64	63,820.00
26	310002010	Supplying, laying and fixing of medium duty galvanized iron tested pipes conforming to IS: 1239 of approved make and removal of damaged/rusted GI pipes, specials and dismantling of masonry/ concrete pedestals, walls as necessary and making good after laying in the pipe line at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 20mm dia	2,000.000	RM	179.80	359,600.00
27	310002011	Supplying, laying and fixing of medium duty galvanized iron tested pipes conforming to IS: 1239 of approved make and removal of damaged/rusted GI pipes, specials and dismantling of	200.000	RM	188.15	37,630.00



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		masonry/ concrete pedestals, walls as necessary and making good after laying in the pipe line at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 25mm dia				
28	310002012	Supplying, laying and fixing of medium duty galvanized iron tested pipes conforming to IS: 1239 of approved make and removal of damaged/rusted GI pipes, specials and dismantling of masonry/ concrete pedestals, walls as necessary and making good after laying in the pipe line at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 32mm dia	20.000	RM	253.67	5,073.40
29	310002013	Supplying, laying and fixing of medium duty galvanized iron tested pipes conforming to IS: 1239 of approved make and removal of damaged/rusted GI pipes, specials and dismantling of masonry/ concrete pedestals, walls as necessary and making good after laying in the pipe line at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 40mm dia	20.000	RM	262.85	5,257.00
30	310002014	Supplying, laying and fixing of medium duty galvanized iron tested pipes conforming to IS: 1239 of approved make and removal of damaged/rusted GI pipes, specials and dismantling of masonry/ concrete pedestals, walls as necessary and making good after laying in the pipe line at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 50mm dia	10.000	RM	292.46	2,924.60
31	310002015	Supplying and fixing of approved make PVC pipe of 3.5mm thick either as replacement of old GI pipe or as sleeves for embedded portion G.I pipes in the pedestals, walls etc., at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 20 mm	5.000	RM	29.65	148.25
32	310002016	Supplying and fixing of approved make PVC pipe of 3.5mm thick either as replacement of old GI pipe or as sleeves for embedded portion G.I pipes in the pedestals, walls etc., at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 25 mm	5.000	RM	36.46	182.30
33	310002017	Supplying and fixing of approved make PVC pipe of 3.5mm thick either as replacement of old GI pipe or as sleeves for embedded portion G.I pipes in the pedestals, walls etc., at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 32 mm	5.000	RM	44.15	220.75
34	310002018	Supplying and fixing of approved make PVC pipe of 3.5mm thick either as replacement of old GI pipe or as sleeves for embedded portion G.I pipes in the pedestals, walls etc., at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 40 mm	5.000	RM	57.56	287.80
35	310002019	Supplying and fixing of approved make PVC pipe of 3.5mm thick either as replacement of old GI pipe or as sleeves for embedded portion G.I pipes in the pedestals, walls etc., at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 50 mm	5.000	RM	68.06	340.30
36	310002020	Supplying and fixing of approved make PVC pipe of 3.5mm thick	5.000	RM	76.19	380.95



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		either as replacement of old GI pipe or as sleeves for embedded portion G.I pipes in the pedestals, walls etc., at all levels including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 65 mm				
37	310002021	Providing and fixing 6mm thick M S flanges, with GI socket of 50mm/80mm/100mm dia suitable for 50mm/80mm/100mm dia CI flanged tail pieces including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	5.000	EA	229.03	1,145.15
38	310002022	Supplying and fixing of Gun Metal Gate valves conforming to ISI approved make to old/new GI lines including cutting, threading, aligning pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 15 mm	20.000	EA	413.13	8,262.60
39	310002023	Supplying and fixing of Gun Metal Gate valves conforming to ISI approved make to old/new GI lines including cutting, threading, aligning pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 20 mm	100.000	EA	520.71	52,071.00
40	310002024	Supplying and fixing of Gun Metal Gate valves conforming to ISI approved make to old/new GI lines including cutting, threading, aligning pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 25 mm	100.000	EA	574.31	57,431.00
41	310002025	Supplying and fixing of Gun Metal Gate valves conforming to ISI approved make to old/new GI lines including cutting, threading, aligning pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 32 mm	5.000	EA	703.34	3,516.70
42	310002026	Supplying and fixing of Gun Metal Gate valves conforming to ISI approved make to old/new GI lines including cutting, threading, aligning pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 40 mm	5.000	EA	867.08	4,335.40
43	310002027	Supplying and fixing of Gun Metal Gate valves conforming to ISI approved make to old/new GI lines including cutting, threading, aligning pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 50 mm	5.000	EA	1,079.62	5,398.10
44	310002028	Providing painting with ready mixed synthetic enamel paint of approved brand and manufacture of required shade to give an even shade in one or more coats over one coat of primer including cleaning, scrubbing the pipe surface all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) New pipe work (15mm dia to 65mm dia)	5.000	RM	12.08	60.40
45	310002029	Providing painting with ready mixed synthetic enamel paint of approved brand and manufacture of required shade to give an even shade in one or more coats over one coat of primer including cleaning, scrubbing the pipe surface all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) As item 14.a above but excluding primer for existing pipes	5.000	RM	13.00	65.00



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46	310002030	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 15mm dia GI pipe	5.000	RM	2.41	12.05
47	310002031	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 20mm dia GI pipe	5.000	RM	2.88	14.40
48	310002032	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 25mm dia GI pipe	5.000	RM	2.80	14.00
49	310002033	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 32mm dia GI pipe	5.000	RM	3.85	19.25
50	310002034	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 40mm dia GI pipe	5.000	RM	5.69	28.45
51	310002035	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 50mm dia GI pipe	5.000	RM	5.81	29.05
52	310002036	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. g) 65mm dia GI pipe	5.000	RM	7.40	37.00
53	310002682	Providing painting with two coats of anti-corrosive bit mastic paint of approved quality including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. g) 80mm dia GI pipe	5.000	RM	8.24	41.20
54	310002037	Supplying and fixing of float valve sets ball made of polypropylene/synthetic metal (Symet) and rods of polypropylene /Aluminium of approved quality to the existing inlet pipe by necessary cutting, threading the pipe, fixing reducers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) for full set 20mm dia	1,500.000	EA	254.62	381,930.00
55	310002038	Supplying and fixing of float valve sets ball made of polypropylene/synthetic metal (Symet) and rods of polypropylene /Aluminium of approved quality to the existing inlet pipe by necessary cutting, threading the pipe, fixing reducers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) for full set 25mm dia	10.000	EA	347.34	3,473.40
56	310002039	Supplying and fixing of float valve sets ball made of polypropylene/synthetic metal (Symet) and rods of polypropylene /Aluminium of approved quality to the existing inlet pipe by necessary cutting, threading the pipe, fixing reducers etc.,	2.000	EA	373.30	746.60



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		including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) for full set 32 mm dia				
57	310002040	Supplying and fixing of float valve sets ball made of polypropylene/synthetic metal (Symet) and rods of polypropylene /Aluminium of approved quality to the existing inlet pipe by necessary cutting, threading the pipe, fixing reducers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) for full set 40mm dia	2.000	EA	377.99	755.98
58	310002041	Supplying and fixing of float valve sets ball made of polypropylene/synthetic metal (Symet) and rods of polypropylene /Aluminium of approved quality to the existing inlet pipe by necessary cutting, threading the pipe, fixing reducers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) only ball for 20 mm dia Float Set	20.000	EA	55.55	1,111.00
59	310002042	Supplying and fixing of float valve sets ball made of polypropylene/synthetic metal (Symet) and rods of polypropylene /Aluminium of approved quality to the existing inlet pipe by necessary cutting, threading the pipe, fixing reducers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) only ball for 25 mm dia Float Set	5.000	EA	55.83	279.15
60	310002043	Supplying and fixing of G.I washers to the existing inlet pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 20mm dia	5.000	EA	12.06	60.30
61	310002044	Supplying and fixing of G.I washers to the existing inlet pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 25mm dia	5.000	EA	9.96	49.80
62	310002045	Supplying and fixing of G.I washers to the existing inlet pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 32mm dia	5.000	EA	15.50	77.50
63	310002046	Supplying and fixing of G.I washers to the existing inlet pipes including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 40mm dia	5.000	EA	18.69	93.45
64	310002047	Removing the muck, mud and cleaning of over head tanks, using required quantity of bleaching powder including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) For residential buildings	50.000	EA	20.06	1,003.00
65	310002048	Removing the muck, mud and cleaning of over head tanks, using required quantity of bleaching powder including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) For public buildings	10.000	EA	54.91	549.10
66	310002051	Removing the muck, mud and cleaning of over head tanks, using required quantity of bleaching powder including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 100 Cum capacity Sump at PH-24	2.000	EA	417.06	834.12
67	310002052	Removing the muck, mud and cleaning of over head tanks, using required quantity of bleaching powder including all material, labour, tools, tackles etc. complete as per specifications and/or as	2.000	EA	347.07	694.14



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		directed by the Engineer. f) 50 Cum capacity Sump at HTGH				
68	310002053	Removing the muck, mud and cleaning of over head tanks, using required quantity of bleaching powder including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. g) 1300 Cum capacity OH tanks (SR-II)	4.000	EA	4,964.06	19,856.24
69	310002054	Cleaning of jungle including uprooting of rank vegetation grass, bush, wood, trees and saplings of girth upto 30 cms measured at a height of 1 mtr. above ground level and removal of rubbish upto a distance of 500 mtrs outside the periphery of the area including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	50.000	M2	1.37	68.50
70	310002055	Surface dressing in all types of soil including removing vegetation and inequalities not exceeding 15 cm deep and disposal of soil, rubbish upto 50 mtrs. and lift upto 1.5 mtrs. etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	50.000	M2	2.65	132.50
71	310002056	Dismantling/removing the existing valve pits/ roof cover slabs/plinth protection including disposal of debris etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) Roof cover slab/walls with reinforcement	5.000	M3	378.83	1,894.15
72	310002057	Dismantling/removing the existing valve pits/ roof cover slabs/plinth protection including disposal of debris etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) Brick work/Randam rubbles masonry work	5.000	M3	318.99	1,594.95
73	310002058	Dismantling/removing the existing valve pits/ roof cover slabs/plinth protection including disposal of debris etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) Plain Cement Concrete	5.000	M3	302.80	1,514.00
74	310002059	Transporting of debris, surplus earth and dismantled material like concrete, stones, brickbats etc., loading, unloading and levelling the areas as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) Upto a lead of 2 KM	5.000	M3	128.31	641.55
75	310002060	Construction of valve pits or alteration to the existing valve pits, roof cover slabs,walls & repair of sinks etc. including all material, labour, tools, tackles and curing etc. complete as per specifications and/or as directed by the Engineer. b) Brick work in Cement Mortar 1:5 (1 Cement, 5 sand) using M-50 bricks for walls, foundations, pedestals etc., in all heights) .	20.000	M3	1,876.09	37,521.80
76	310002061	Construction of valve pits or alteration to the existing valve pits, roof cover slabs,walls & repair of sinks etc. including all material, labour, tools, tackles and curing etc. complete as per specifications and/or as directed by the Engineer. c) Plastering 15mm thick with Cement Mortar 1:4 (1 cement, 4 sand) for the walls at all heights	600.000	M2	96.25	57,750.00
77	310002062	Construction of valve pits or alteration to the existing valve pits, roof cover slabs,walls & repair of sinks etc. including all material, labour, tools, tackles and curing etc. complete as per specifications and/or as directed by the Engineer. d) Plain Cement Concrete	10.000	M3	3,401.93	34,019.30



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		1:2:4 (1 cement, 2 sand and 4 stone aggregate 20mm and down) for foundation, pathways, anchors, encasements etc.,				
78	310002063	Construction of valve pits or alteration to the existing valve pits, roof cover slabs,walls & repair of sinks etc. including all material, labour, tools, tackles and curing etc. complete as per specifications and/or as directed by the Engineer. e) Plain cement concrete 1:4:8 (1 cement, 4 sand and 8 stone aggregate 40mm and down) for pathways, foundations etc.,	2.000	M3	2,445.92	4,891.84
79	310002064	Random rubble masonry with hard stone in cement mortar 1:6 (1 cement, 6 sand) at all levels complete all material, labour, tools, tackles, curing etc. complete as per specifications and/or as directed by the Engineer.	2.000	M3	1,949.18	3,898.36
80	310002065	Removing the muck, mud and cleaning of C I sluice/butterfly valve chambers of all sizes including disposal of debris removed from the valve chambers within a lead of 50 mtrs. and including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	2.000	EA	28.43	56.86
81	310002066	Removing of damaged asbestos greased graphite gland packing from gate valves, supplying and fixing new gland packing gasket, bolts and nuts etc., wherever necessary including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm to 300mm dia	2.000	EA	40.37	80.74
82	310002067	Removing of damaged asbestos greased graphite gland packing from gate valves, supplying and fixing new gland packing gasket, bolts and nuts etc., wherever necessary including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 350mm to 600mm dia	2.000	EA	51.04	102.08
83	310002068	Supplying and fixing of C.I gland caps to the existing sluice valves with necessary nuts and bolts etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm dia	2.000	EA	145.42	290.84
84	310002069	Supplying and fixing of C.I gland caps to the existing sluice valves with necessary nuts and bolts etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 100mm dia	2.000	EA	161.29	322.58
85	310002070	Supplying and fixing of C.I gland caps to the existing sluice valves with necessary nuts and bolts etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 150mm dia	2.000	EA	161.28	322.56
86	310002071	Supplying and fixing of C.I gland caps to the existing sluice valves with necessary nuts and bolts etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 200mm dia	2.000	EA	128.28	256.56
87	310002072	Supplying and fixing of C.I gland caps to the existing sluice valves with necessary nuts and bolts etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 250mm dia	2.000	EA	216.49	432.98
88	310002073	Supplying and fixing of C.I gland caps to the existing sluice valves with necessary nuts and bolts etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 300mm dia	2.000	EA	241.36	482.72



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89	310002074	Removing the sluice / butterfly valve bodies for servicing of valves, refixing the valves, aligning and matching with the existing water supply line including providing required rubber gasket, bolts and nuts all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm dia	2.000	EA	150.77	301.54
90	310002075	Removing the sluice / butterfly valve bodies for servicing of valves, refixing the valves, aligning and matching with the existing water supply line including providing required rubber gasket, bolts and nuts all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 100mm dia	2.000	EA	223.44	446.88
91	310002076	Removing the sluice / butterfly valve bodies for servicing of valves, refixing the valves, aligning and matching with the existing water supply line including providing required rubber gasket, bolts and nuts all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 150mm dia	2.000	EA	233.16	466.32
92	310002077	Removing the sluice / butterfly valve bodies for servicing of valves, refixing the valves, aligning and matching with the existing water supply line including providing required rubber gasket, bolts and nuts all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 200mm dia	2.000	EA	265.98	531.96
93	310002078	Removing the sluice / butterfly valve bodies for servicing of valves, refixing the valves, aligning and matching with the existing water supply line including providing required rubber gasket, bolts and nuts all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 250mm dia	2.000	EA	284.31	568.62
94	310002079	Removing the sluice / butterfly valve bodies for servicing of valves, refixing the valves, aligning and matching with the existing water supply line including providing required rubber gasket, bolts and nuts all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 300mm dia & above	2.000	EA	338.50	677.00
95	310002080	Removing existing damaged valves (sluice, butterfly) returning to Town Maintenance stores and taking delivery of new/repared valves from stores, transporting to site and providing and fixing with lead, nuts, bolts and rubber gasket as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm to 150mm dia	2.000	EA	346.96	693.92
96	310002081	Removing existing damaged valves (sluice, butterfly) returning to Town Maintenance stores and taking delivery of new/repared valves from stores, transporting to site and providing and fixing with lead, nuts, bolts and rubber gasket as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 200mm to 300mm dia	2.000	EA	461.93	923.86
97	310002082	Removing existing damaged valves (sluice, butterfly) returning to Town Maintenance stores and taking delivery of new/repared valves from stores, transporting to site and providing and fixing	2.000	EA	662.89	1,325.78



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		with lead, nuts, bolts and rubber gasket as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 350mm to 600mm dia				
98	310002083	Laying of cast iron specials in position, aligning and matching with the existing line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (C.I specials will be issued free of cost from VSP Stores).	2.000	KG	18.55	37.10
99	310002084	Providing and laying of cast iron standard specials suchas tees, bends, collars, tapers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) Upto 300mm dia	2.000	KG	49.19	98.38
100	310002085	Providing and laying of cast iron standard specials suchas tees, bends, collars, tapers etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) Over 300mm dia	2.000	KG	56.88	113.76
101	310002086	Dismantling lead jointing in the existing CI lines, removing lead, lifting the pipes from the trenches, transporting the damaged CI pipes to VSP Town Maintenance Stores (with removed lead if any) including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm to 300mm dia	2.000	RM	74.49	148.98
102	310002087	Dismantling lead jointing in the existing CI lines, removing lead, lifting the pipes from the trenches, transporting the damaged CI pipes to VSP Town Maintenance Stores (with removed lead if any) including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 350mm to 400mm dia	2.000	RM	122.81	245.62
103	310002088	Dismantling lead jointing in the existing CI lines, removing lead, lifting the pipes from the trenches, transporting the damaged CI pipes to VSP Town Maintenance Stores (with removed lead if any) including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 450mm to 600mm dia	2.000	RM	150.10	300.20
104	310002089	Cutting the Cast Iron pipes by chiseling including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm dia to 250mm dia	2.000	EA	78.95	157.90
105	310002090	Cutting the Cast Iron pipes by chiseling including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 300mm dia to 500mm dia	2.000	EA	106.20	212.40
106	310002091	Cutting the Cast Iron pipes by chiseling including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 600mm dia	2.000	EA	132.26	264.52
107	310002092	Laying of Cast Iron pipes including aligning and matching with the existing CI line including transportation from VSP stores to site and supplying and jointing with lead, spun yard etc., with all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (CI pipes will be issued free of cost from VSP Stores). a) 80mm dia to 250mm dia	2.000	RM	102.03	204.06
108	310002093	Laying of Cast Iron pipes including aligning and matching with the existing CI line including transportation from VSP stores to	2.000	RM	124.14	248.28



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		site and supplying and jointing with lead, spun yard etc., with all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (CI pipes will be issued free of cost from VSP Stores). b) 300mm dia to 450mm dia				
109	310002094	Laying of Cast Iron pipes including aligning and matching with the existing CI line including transportation from VSP stores to site and supplying and jointing with lead, spun yard etc., with all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (CI pipes will be issued free of cost from VSP Stores). c) 500mm dia to 600mm dia	2.000	RM	149.33	298.66
110	310002095	Providing, Laying S&S centrifugally Cast (Spun) iron pipe (class LA) of approved manufacture, with jointing, caulking, testing the line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Payment for lead jointing shall be made separately under relevant item) a) 80mm dia	2.000	RM	407.32	814.64
111	310002096	Providing, Laying S&S centrifugally Cast (Spun) iron pipe (class LA) of approved manufacture, with jointing, caulking, testing the line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Payment for lead jointing shall be made separately under relevant item) b) 100mm dia	2.000	RM	526.76	1,053.52
112	310002097	Providing, Laying S&S centrifugally Cast (Spun) iron pipe (class LA) of approved manufacture, with jointing, caulking, testing the line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Payment for lead jointing shall be made separately under relevant item) c) 150mm dia	2.000	RM	851.13	1,702.26
113	310002098	Providing, Laying S&S centrifugally Cast (Spun) iron pipe (class LA) of approved manufacture, with jointing, caulking, testing the line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Payment for lead jointing shall be made separately under relevant item) d) 200mm dia	2.000	RM	1,023.73	2,047.46
114	310002099	Providing, Laying S&S centrifugally Cast (Spun) iron pipe (class LA) of approved manufacture, with jointing, caulking, testing the line including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Payment for lead jointing shall be made separately under relevant item) e) 300mm dia	2.000	RM	1,513.58	3,027.16
115	310002100	Removing the lead and spun yarn etc. from the damaged lead jointing and jointing the CI pipes and specials with molten lead using the lead obtained from the damaged joints and adding the extra quantity of lead and yarn and as required caulking and testing the joint for any leakage etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm dia to 250mm dia	2.000	EA	455.09	910.18
116	310002101	Removing the lead and spun yarn etc. from the damaged lead jointing and jointing the CI pipes and specials with molten lead using the lead obtained from the damaged joints and adding the extra quantity of lead and yarn and as required caulking and	2.000	EA	815.12	1,630.24



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		testing the joint for any leakage etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 300mm dia to 500mm dia				
117	310002102	Removing the lead and spun yarn etc. from the damaged lead jointing and jointing the CI pipes and specials with molten lead using the lead obtained from the damaged joints and adding the extra quantity of lead and yarn and as required caulking and testing the joint for any leakage etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 600mm dia	2.000	EA	692.44	1,384.88
118	310002103	Cutting and removing C I pipes of following diameters relaying after cleaning the pipes and matching with the existing line, jointing with lead, testing the joint for any leakages etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 80mm dia	2.000	RM	76.62	153.24
119	310002104	Cutting and removing C I pipes of following diameters relaying after cleaning the pipes and matching with the existing line, jointing with lead, testing the joint for any leakages etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 100mm dia	2.000	RM	110.52	221.04
120	310002105	Cutting and removing C I pipes of following diameters relaying after cleaning the pipes and matching with the existing line, jointing with lead, testing the joint for any leakages etc. including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 150mm dia & above	2.000	RM	131.47	262.94
121	310002106	Cutting water bound macadam road and making good the same including supply of extra quantities of aggregate moorum etc. as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Cement free issue by VSP).	2.000	M2	154.29	308.58
122	310002107	Cutting bituminous premix carpet roads and making good the road after laying of pipes etc with P C C 1:2:4 (1 cement, 2 sand and 4 stone aggregate 20mm and down) grade concrete including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. (Payment for PCC will be made against item No.23(d).	2.000	M2	158.52	317.04
123	310002108	Providing steel putty (two parts of epoxy resin system filled with one part of steel powder used as cold welding process and applying over pipe joints or cavitated areas for permanent repairs to leakages including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	2.000	KG	7,061.31	14,122.62
124	310002109	Lifting and lowering of GI pipes of all diameters in all types of bore well including repair of jet valve etc., if required as per the directions of Engineer including the cost of materials, tools and labour required for repairs. Depth of the bore well is 80mtrs. approx.(Pipes/specials required will be issued free of cost by VSP)	2.000	EA	3,935.59	7,871.18
125	310002110	Flushing of existing bore wells with DTH/rig with compressor. The approximate depth of the bore well will be upto 80 Mtrs.	2.000	EA	7,476.24	14,952.48
126	310002111	Replacement of damaged jet/foot valve in the existing bore well, supply and fixing new foot valve, including the cost of tools,	2.000	EA	1,066.47	2,132.94



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		labour and material required for repair complete. (Payment for lifting and lowering will be made against item No.48).				
127	310002112	Providing and fixing the following of approved make and brand including removing existing ones as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) PVC Low level Dual Cistern with internal kit and suitable bend pipe (complete set)	2.000	EA	1,680.17	3,360.34
128	310002113	Providing and fixing the following of approved make and brand including removing existing ones as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) Internal kit for 10 ltrs. Low level cistern.	50.000	EA	740.87	37,043.50
129	310002114	Providing and fixing the following of approved make and brand including removing existing ones as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) CI 10 ltrs automatic flushing cistern with internal kit (complete set)	2.000	EA	786.14	1,572.28
130	310002115	Providing and fixing the following of approved make and brand including removing existing ones as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) PVC Low level 10 ltrs. Cistern with internal kit and suitable bend pipe (complete set)	400.000	EA	1,286.08	514,432.00
131	310002116	Providing, fixing and connecting approved make white vitreous China wash basin of size 550 x 400mm with one pair of concealed brackets including removing the existing one, connecting the newly fixed wash basin with existing pipe, pillar trap including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	300.000	EA	828.45	248,535.00
132	310002117	Providing, fixing and connecting approved make white vitreous China wash basin of size 465mm with one pair of concealed brackets including removing the existing one, connecting the newly fixed wash basin with existing pipe, pillar trap including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	2.000	EA	1,020.86	2,041.72
133	310002118	Providing and fixing the following of approved make and brand including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) PVC flush bend 32mm dia for High level/low level flush tanks)	300.000	EA	118.13	35,439.00
134	310002119	Providing and fixing the following of approved make and brand including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) Plastic EWC seat cover with lid, CP brass hinges, rubber buffers etc., complete set	100.000	EA	298.87	29,887.00
135	310002120	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 15mm PVC inlet connections (Upto 450mm long)	1,000.000	EA	79.81	79,810.00



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136	310002121	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 32mm dia PVC waste pipe with union for wash basins	1,200.000	EA	62.62	75,144.00
137	310002122	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 40mm dia PVC pipe with union for kitchen sinks	500.000	EA	69.34	34,670.00
138	310002123	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 32mm dia CP waste for wash basins	1,200.000	EA	96.00	115,200.00
139	310002124	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 40mm dia CP waste for kitchen sink and wash basins	200.000	EA	95.11	19,022.00
140	310002125	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 32mm dia CP bottle trap	2.000	EA	359.04	718.08
141	310002126	Providing and fixing the following fittings of approved make and brand for wash basins/sinks including removing existing ones and refixing connections as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. g) CI brackets for wash basin & flush tanks	100.000	SET	93.43	9,343.00
142	310002127	Providing and fixing following fittings including screws etc. including removing existing as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. CP brass shower rose 100mm dia with GI nipple	200.000	EA	138.27	27,654.00
143	310002128	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 15mm Bib cocks/Stopcock	200.000	EA	300.03	60,006.00
144	310002129	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 15mm long body bib cock	10.000	EA	359.93	3,599.30
145	310002130	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete	700.000	EA	370.79	259,553.00



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		as per specifications and/or as directed by the Engineer. c) 15mm CP brass pillar cock				
146	310002131	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) 32mm dia CP brass flush cock	2.000	EA	1,503.69	3,007.38
147	310002132	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) 15mm PVC bib cocks	800.000	EA	92.92	74,336.00
148	310002133	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. f) 15mm hexagonal spindles	800.000	EA	105.77	84,616.00
149	310002134	Providing and fixing the following heavy duty specials/fittings of approved make for water lines including removing existing one as required including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. g) Repair of old bib cocks by providing new fabricated spindle	50.000	EA	105.44	5,272.00
150	310002135	Supply of bib cocks 15mm short body 400 grams weight as per ISI to VSP Town Admn.stores/site as directed by the Engineer.	20.000	EA	155.63	3,112.60
151	310002136	Providing and fixing the following clamps and dummies for GI pipes including removing existing ones including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) Dummy 32/40mm for OH tank by cutting existing and welding GI pipe piece and socket etc.,	20.000	EA	177.16	3,543.20
152	310002137	Providing and fixing the following clamps and dummies for GI pipes including removing existing ones including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) Dummy 32/40mm for OH tanks to existing pipe/socket	200.000	EA	52.18	10,436.00
153	310002138	Providing and fixing the following clamps and dummies for GI pipes including removing existing ones including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) Clamps for GI pipes upto 40mm dia	100.000	EA	7.35	735.00
154	310002139	Providing and fixing vitirus fittings. a) Urinal basin size: 440mm	2.000	EA	778.17	1,556.34
155	310002140	Providing and fixing vitirus fittings. b) Urinal basin size: 630mm	2.000	EA	1,093.27	2,186.54
156	310002683	Fabricating M S specials like bends, tees, reducers, flanges from MS pipes and plates issued free by VSP including transportation of pipes /plates from employer's stores to work site all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	0.500	TO	12,977.31	6,488.66
157	310002684	Supplying, erecting, fabracating and testing of DN 100MS pipe (IS:1239) including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer.	10.000	RM	1,317.24	13,172.40



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158	310002141	Providing and fixing of sintex or other approved equivalent tank with float valve on roofs making necessary connections etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. a) 750 Ltrs capacity	2.000	EA	4,681.11	9,362.22
159	310002142	Providing and fixing of sintex or other approved equivalent tank with float valve on roofs making necessary connections etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. b) 1000 Ltrs capacity	2.000	EA	5,594.86	11,189.72
160	310002143	Providing and fixing of sintex or other approved equivalent tank with float valve on roofs making necessary connections etc., including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. c) 2000 Ltrs capacity	2.000	EA	10,323.91	20,647.82
161	310002144	Providing and fixing the following of approved make including removing and refixing the existing connections to new one including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. d) Cuddapha sink 600x450x250mm	500.000	EA	557.94	278,970.00
162	310002145	Providing and fixing the following of approved make including removing and refixing the existing connections to new one including all material, labour, tools, tackles etc. complete as per specifications and/or as directed by the Engineer. e) Cuddapha slab 25mm thick	100.000	M2	526.40	52,640.00
163	310002146	Taking delivery from TA stores and fixing the flush tanks with suitable bend pipe, in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only flush tank will be issued free of cost from Town maintenance stores).Low Level Flush tanks	20.000	EA	349.16	6,983.20
164	310002147	Taking delivery from TA stores and fixing the wash basins in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only wash basins will be issued free of cost from Town maintenance stores).	5.000	EA	252.23	1,261.15
165	310002148	Taking delivery from TA stores and fixing the PVC water tanks in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only PVC water tanks will be issued free of cost from Town maintenance stores). a) 750 Ltrs. Capacity	5.000	EA	1,489.68	7,448.40
166	310002149	Taking delivery from TA stores and fixing the PVC water tanks in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only PVC water tanks will be issued free of cost from Town maintenance stores). b)1000 Ltrs.	5.000	EA	1,778.19	8,890.95



RAHSTRIYA ISPAT NIGAM LIMITED
VISAKHAPATNAM STEEL PLANT
VISAKHAPATNAM - 530031

BILL OF QUANTITIES

Sl.No	Service Number	Description of the item	Qty	UOM	Rate	Amount
		Capacity				
167	310002150	Taking delivery from TA stores and fixing the PVC water tanks in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only PVC water tanks will be issued free of cost from Town maintenance stores). c) 2000 Ltrs. Capacity	5.000	EA	3,059.01	15,295.05
168	310002151	Taking delivery from TA stores and fixing the porcelain sinks in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only porcelain sinks will be issued free of cost from Town maintenance stores).	5.000	EA	378.45	1,892.25
169	310002152	Taking delivery from TA stores and fixing the drain board in position at the locations directed by the Engineer including removing and re-fixing the existing connections to the new one with all labour, tools, tackles etc., Complete as per specifications and/or as directed by the Engineer (Only boards will be issued free of cost from Town maintenance stores).	5.000	EA	178.21	891.05
170	310002153	Supplying and fixing of 25 mm dia. Nominal bore HDPE pipe conforming to ISI, at all levels including all materials ,labour,tools, tackles etc. complete as per specification and/ or as directed by the Engineer.	20.000	RM	79.92	1,598.40
171	310002154	Supplying and fixing of 32 mm dia. Nominal bore HDPE pipe conforming to ISI, at all levels including all materials ,labour,tools, tackles etc. complete as per specification and/ or as directed by the Engineer.	20.000	RM	112.44	2,248.80
172	310002155	Providing and fixing of 15 mm dia. PTMT push cocks of approved make for water lines including removing existing one as required including all materials, labour, tools & tackles etc.,complete as per specifications and or as directed by the Engineer.	20.000	EA	179.80	3,596.00
173	310002156	Providing and fixing of 15 mm dia. PTMT Urinal cocks of approved make for water lines including removing existing one as required including all materials, labour, tools & tackles etc.,complete as per specifications and or as directed by the Engineer.	10.000	EA	167.16	1,671.60
174	310003182	"Providing and fixing GI pipe specials such as bends / Tees / sockets / reducer /dummy etc. including cost of all materials, tools and labour complete. #:15 mm dia"	200.000	EA	20.08	4,016.00
175	310003183	"Providing and fixing GI pipe specials such as bends / Tees / sockets / reducer /dummy etc. including cost of all materials, tools and labour complete. #:20 mm dia"	200.000	EA	27.97	5,594.00
176	310003184	"Providing and fixing GI pipe specials such as bends / Tees / sockets / reducer /dummy etc. including cost of all materials, tools and labour complete. #:25 mm dia"	200.000	EA	37.24	7,448.00
177	310003185	"Providing and fixing GI pipe specials such as bends / Tees / sockets / reducer /dummy etc. including cost of all materials, tools and labour complete. #:32 mm dia"	200.000	EA	51.04	10,208.00
178	310003186	"Providing and fixing GI pipe specials such as bends / Tees /	200.000	EA	66.73	13,346.00



**RAHSTRIYA ISPAT NIGAM LIMITED
VISAKHAPATNAM STEEL PLANT
VISAKHAPATNAM - 530031**

BILL OF QUANTITIES

Sl.No	Service Number	Description of the item	Qty	UOM	Rate	Amount
		sockets / reducer /dummy etc. including cost of all materials, tools and labour complete.#:40 mm dia"				
179	310003187	"Providing and fixing GI pipe specials such as bends / Tees / sockets / reducer /dummy etc. including cost of all materials, tools and labour complete.#:50 mm dia"	200.000	EA	101.45	20,290.00
180	310003188	"Providing and fixing GI union in existing GI pipeline#including cutting and threading the pipe, cost of#all materials, tools and labour complete.#:15 mm dia"	200.000	EA	77.83	15,566.00
181	310003189	"Providing and fixing GI union in existing GI pipeline#including cutting and threading the pipe, cost of#all materials, tools and labour complete.#:20 mm dia"	200.000	EA	96.29	19,258.00
182	310003190	"Providing and fixing GI union in existing GI pipeline#including cutting and threading the pipe, cost of#all materials, tools and labour complete.#:25 mm dia"	200.000	EA	118.35	23,670.00
183	310003191	"Providing and fixing GI union in existing GI pipeline#including cutting and threading the pipe, cost of#all materials, tools and labour complete.#:32 mm dia"	200.000	EA	153.16	30,632.00
184	310003192	"Providing and fixing GI union in existing GI ipelineincluding cutting and threading the pipe, cost of all materials, tools and labour complete.#:40 mm dia"	200.000	EA	179.89	35,978.00
185	310003193	"Providing and fixing GI union in existing GI pipeline#including cutting and threading the pipe, cost of#all materials, tools and labour complete.#:50 mm dia"	200.000	EA	267.37	53,474.00
Total Value: In words : thirty eight lakh fifty three thousand two hundred fourteen rupees seventy four paise						3,853,214.74

Signature of the Tendere