

BILL OF QUANTITIES

FOR

MISCELLANEOUS WATER SUPPLY WORKS AND MAINTENANCE OF WATER SUPPLY SYSTEM IN SECTORS-1 TO5 OF VSP TOWNSHIP.

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
	<u>PART-A</u>				
1	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.	Cum.	400	47.75	19100.00
				(Rupees Forty Seven and Paise Seventy Five Only)	
2	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.	Cum	400	21.69	8676.00
				(Rupees Twenty One and Paise Sixty Nine Only)	
3	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.	Each	10	111.48	1114.80
				(Rupees One hundred Eleven and Paise Forty Eight Only)	
4	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.	Each	10	246.62	2466.20
				(Rupees Two hundred Forty Six and Paise Sixty Two Only)	
5	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.	Each	4	266.08	1064.32
				(Rupees Two hundred Sixty Six and Paise Eight Only)	
6	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.	Each	10	162.61	1626.10
				(Rupees One hundred Sixty Two and Paise Sixty One Only)	
7	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/Oswal)				
	a) 15mm dia nominal bore	RM	150	107.36	16104.00
				(Rupees One hundred Seven and Paise Thirty Six Only)	
	b) 20mm dia nominal bore	RM	600	117.08	70248.00
				(Rupees One hundred Seventeen and Paise Eight Only)	
	c) 25mm dia nominal bore	RM	150	158.62	23793.00
				(Rupees One hundred Fifty Eight and Paise Sixty Two Only)	

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
	d) 32mm dia nominal bore	RM	100	172.21	17221.00
				(Rupees One hundred Seventy Two and Paise Twenty One Only)	
	e) 40mm dia nominal bore	RM	50	198.93	9946.50
				(Rupees One hundred Ninety Eight and Paise Ninety Three Only)	
	f) 50mm dia nominal bore	RM	50	189.32	9466.00
				(Rupees One hundred Eighty Nine and Paise Thirty Two Only)	
8	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) 15mm dia	RM	100	21.74	2174.00
				(Rupees Twenty One and Paise Seventy Four Only)	
	b) 20mm dia	RM	100	25.96	2596.00
				(Rupees Twenty Five and Paise Ninety Six Only)	
	c) 25mm/32mm dia	"	100	38.97	3897.00
				(Rupees Thirty Eight and Paise Ninety Seven Only)	
	d) 40mm /50mmdia	"	100	46.70	4670.00
				(Rupees Forty Six and Paise Seventy Only)	
	e) 65mm dia	"	10	43.71	437.10
				(Rupees Forty Three and Paise Seventy One Only)	
	f) 80mm dia	RM	10	42.73	427.30
				(Rupees Forty Two and Paise Seventy Three Only)	
9	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.				
	a) 15mm dia	RM	1080	19.96	21556.80
				(Rupees Nineteen and Paise Ninety Six Only)	
	b) 20mm dia	"	2000	32.86	65720.00
				(Rupees Thirty Two and Paise Eighty Six Only)	
	c) 25mm/32mm dia	"	1000	43.42	43420.00
				(Rupees Forty Three and Paise Forty Two Only)	
	d) 40mm /50mmdia	"	1000	49.39	49390.00
				(Rupees Forty Nine and Paise Thirty Nine Only)	
	e) 65mm dia	"	20	57.33	1146.60
				(Rupees Fifty Seven and Paise Thirty Three Only)	
	f) 80mm dia	"	20	67.25	1345.00
				(Rupees Sixty Seven and Paise Twenty Five Only)	
10	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 nominal bore	RM	1000	127.64	127640.00
				(Rupees One hundred Twenty Seven and Paise Sixty Four Only)	

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
	b) 20mm dia nominal bore	"	1200	179.8	215760.00
				(Rupees One hundred Seventy Nine and Paise Eighty Only)	
	c) 25mm dia nominal bore	"	500	188.15	94075.00
				(Rupees One hundred Eighty Eight and Paise Fifteen Only)	
	d) 32mm dia nominal bore	RM	300	253.67	76101.00
				(Rupees Two hundred Fifty Three and Paise Sixty Seven Only)	
	e) 40mm dia nominal bore	"	300	262.85	78855.00
				(Rupees Two hundred Sixty Two and Paise Eighty Five Only)	
	f) 50mm dia nominal bore	"	50	292.46	14623.00
				(Rupees Two hundred Ninety Two and Paise Forty Six Only)	
11	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) 20mm	RM	8	29.65	237.20
				(Rupees Twenty Nine and Paise Sixty Five Only)	
	b) 25mm	"	8	36.46	291.68
				(Rupees Thirty Six and Paise Forty Six Only)	
	c) 32mm	"	8	44.15	353.20
				(Rupees Forty Four and Paise Fifteen Only)	
	d) 40mm	"	54	57.55	3107.70
				(Rupees Fifty Seven and Paise Fifty Five Only)	
	e) 50mm	"	8	68.06	544.48
				(Rupees Sixty Eight and Paise Six Only)	
	f) 65mm	"	8	76.19	609.52
				(Rupees Seventy Six and Paise Nineteen Only)	
12	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.	Each	10	229.03	2290.30
				(Rupees Two hundred Twenty Nine and Paise Three Only)	
13	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) 15mm	Each	20	413.13	8262.60
				(Rupees Four hundred Thirteen and Paise Thirteen Only)	
	b) 20mm	"	40	520.71	20828.40
				(Rupees Five hundred Twenty and Paise Seventy One Only)	
	c) 25mm	"	20	574.31	11486.20
				(Rupees Five hundred Seventy Four and Paise Thirty One Only)	
	d) 32mm	Each	64	703.34	45013.76
				(Rupees Seven hundred Three and Paise Thirty Four Only)	
	e) 40mm	"	20	867.08	17341.60
				(Rupees Eight hundred Sixty Seven and Paise Eight Only)	
	f) 50mm	Each	10	1079.62	10796.20
				(Rupees One thousand Seventy Nine and Paise Sixty Two Only)	

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
14	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)	RM	10	12.08	120.80
				(Rupees Twelve and Paise Eight Only)	
	b) As item 14.a above but excluding primer for existing pipes	"	30	13	390.00
				(Rupees Thirteen Only)	
15	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	RM	20	2.41	48.20
				(Rupees Two and Paise Forty One Only)	
	b) 20mm dia GI pipe	"	20	2.88	57.60
				(Rupees Two and Paise Eighty Eight Only)	
	c) 25mm dia GI pipe	"	20	2.80	56.00
				(Rupees Two and Paise Eighty Only)	
	d) 32mm dia GI pipe	"	20	3.85	77.00
				(Rupees Three and Paise Eighty Five Only)	
	e) 40mm dia GI pipe	"	20	5.69	113.80
				(Rupees Five and Paise Sixty Nine Only)	
	f) 50mm dia GI pipe	"	20	5.81	116.20
				(Rupees Five and Paise Eighty One Only)	
	g) 65mm dia GI pipe	"	20	7.4	148.00
				(Rupees Seven and Paise Forty Only)	
	h) 80mm dia GI pipe	"	20	8.24	164.80
				(Rupees Eight and Paise Twenty Four Only)	
16	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	Each	1500	254.62	381930.00
				(Rupees Two hundred Fifty Four and Paise Sixty Two Only)	
	b) for full set 25mm dia	"	20	347.34	6946.80
				(Rupees Three hundred Forty Seven and Paise Thirty Four Only)	
	c) for full set 32mm dia	"	4	373.30	1493.20
				(Rupees Three hundred Seventy Three and Paise Thirty Only)	
	d) for full set 40mm dia	"	10	377.99	3779.90
				(Rupees Three hundred Seventy Seven and Paise Ninety Nine Only)	
	e) Only ball for 20mm float set	"	190	55.55	10554.50
				(Rupees Fifty Five and Paise Fifty Five Only)	
	f) Only ball for 25mm float set	"	20	55.83	1116.60
				(Rupees Fifty Five and Paise Eighty Three Only)	

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
17	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	Each	10	12.06	120.60
		(Rupees Twelve and Paise Six Only)			
	b) 25mm dia	Each	10	9.96	99.60
		(Rupees Nine and Paise Ninety Six Only)			
	c) 32mm dia	"	10	15.50	155.00
		(Rupees Fifteen and Paise Fifty Only)			
	d) 40mm dia	"	10	18.69	186.90
		(Rupees Eighteen and Paise Sixty Nine Only)			
18	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	Each	100	20.06	2006.00
		(Rupees Twenty and Paise Six Only)			
19	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.				
		Sqm.	20	1.37	27.40
		(Rupees One and Paise Thirty Seven Only)			
20	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.				
		Sqm.	300	2.65	795.00
		(Rupees Two and Paise Sixty Five Only)			
21	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	Cum.	4	378.83	1515.32
		(Rupees Three hundred Seventy Eight and Paise Eighty Three Only)			
	b) Brick work/Randam rubbles masonry work	"	4	318.99	1275.96
		(Rupees Three hundred Eighteen and Paise Ninety Nine Only)			
	c) Plain Cement Concrete	Cum.	4	302.8	1211.20
		(Rupees Three hundred Two and Paise Eighty Only)			
22	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	Cum.	4	128.31	513.24
		(Rupees One hundred Twenty Eight and Paise Thirty One Only)			

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
23	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.(Cement is in agency's scope)				
	b) Brick work in Cement Mortar 1:5 (1 Cement, 5 sand) using M-50 bricks for walls, foundations, pedestals etc., in all heights) .	"	6	1876.09	11256.54
		(Rupees One thousand Eight hundred Seventy Six and Paise Nine Only)			
	c) Plastering 15mm thick with Cement Mortar 1:4 (1 cement, 4 sand) for the walls at all heights.	Sqm.	200	96.25	19250.00
		(Rupees Ninety Six and Paise Twenty Five Only)			
	d) Plain Cement Concrete 1:2:4 (1 cement, 2 sand and 4 stone aggregate 20mm and down) for foundation, pathways, anchors, encasements etc.,	Cum.	20	3401.93	68038.60
		(Rupees Three thousand Four hundred One and Paise Ninety Three Only)			
	e) Plain cement concrete 1:4:8 (1 cement, 4 sand and 8 stone aggregate 40mm and down) for pathways, foundations etc.,	Cum.	10	2445.92	24459.20
		(Rupees Two thousand Four hundred Forty Five and Paise Ninety Two Only)			
24	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.(Cement is in the scope of agency)	Cum.	6	1949.18	11695.08
		(Rupees One thousand Nine hundred Forty Nine and Paise Eighteen Only)			
25	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.	Nos.	60	28.43	1705.80
		(Rupees Twenty Eight and Paise Forty Three Only)			
26	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	Each	20	40.37	807.40
		(Rupees Forty and Paise Thirty Seven Only)			
	b) 350mm to 600mm dia	"	20	51.04	1020.80
		(Rupees Fifty One and Paise Four Only)			
27	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	Each	4	145.42	581.68
		(Rupees One hundred Forty Five and Paise Forty Two Only)			
	b) 100mm dia	"	4	161.29	645.16
		(Rupees One hundred Sixty One and Paise Twenty Nine Only)			
	c) 150mm dia	"	4	161.28	645.12
		(Rupees One hundred Sixty One and Paise Twenty Eight Only)			

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	d) 200mm dia	"	4	128.28	513.12
				(Rupees One hundred Twenty Eight and Paise Twenty Eight Only)	
	e) 250mm dia	"	4	216.49	865.96
				(Rupees Two hundred Sixteen and Paise Forty Nine Only)	
	f) 300mm dia	"	4	241.36	965.44
				(Rupees Two hundred Forty One and Paise Thirty Six Only)	
28	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	Each	4	150.77	603.08
				(Rupees One hundred Fifty and Paise Seventy Seven Only)	
	b) 100mm dia	"	4	223.44	893.76
				(Rupees Two hundred Twenty Three and Paise Forty Four Only)	
	c) 150mm dia	"	2	233.16	466.32
				(Rupees Two hundred Thirty Three and Paise Sixteen Only)	
	d) 200mm dia	"	2	265.98	531.96
				(Rupees Two hundred Sixty Five and Paise Ninety Eight Only)	
	e) 250mm dia	"	2	284.31	568.62
				(Rupees Two hundred Eighty Four and Paise Thirty One Only)	
	f) 300mm dia and above	"	2	338.5	677.00
				(Rupees Three hundred Thirty Eight and Paise Fifty Only)	
32	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	Each	2	346.96	693.92
				(Rupees Three hundred Forty Six and Paise Ninety Six Only)	
	b) 200mm to 300mm dia	"	2	461.93	923.86
				(Rupees Four hundred Sixty One and Paise Ninety Three Only)	
	c) 350mm to 600mm dia	Each	2	662.89	1325.78
				(Rupees Six hundred Sixty Two and Paise Eighty Nine Only)	
33	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).				
		Kgs.	20	18.55	371.00
				(Rupees Eighteen and Paise Fifty Five Only)	
34	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	Kgs.	48	49.19	2361.12
				(Rupees Forty Nine and Paise Nineteen Only)	
	b) Over 300mm dia	"	20	56.88	1137.60

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		(Rupees Fifty Six and Paise Eighty Eight Only)			
35	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	RM	4	74.49	297.96
		(Rupees Seventy Four and Paise Forty Nine Only)			
	b) 350mm dia to 400mm dia	"	4	122.81	491.24
		(Rupees One hundred Twenty Two and Paise Eighty One Only)			
	c) 450mm to 600mm dia	RM	4	150.1	600.40
		(Rupees One hundred Fifty and Paise Ten Only)			
36	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	Each	10	78.95	789.50
		(Rupees Seventy Eight and Paise Ninety Five Only)			
	b) 300mm dia to 500mm dia	"	10	106.2	1062.00
		(Rupees One hundred Six and Paise Twenty Only)			
	c) 600mm CI pipe	"	10	132.26	1322.60
		(Rupees One hundred Thirty Two and Paise Twenty Six Only)			
37	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	RM	10	102.03	1020.30
		(Rupees One hundred Two and Paise Three Only)			
	b) 300mm dia to 450mm dia	"	10	124.14	1241.40
		(Rupees One hundred Twenty Four and Paise Fourteen Only)			
	c) 500mm dia to 600mm dia	"	10	149.33	1493.30
		(Rupees One hundred Forty Nine and Paise Thirty Three Only)			
38	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	RM	10	407.32	4073.20
		(Rupees Four hundred Seven and Paise Thirty Two Only)			
	b) 100mm dia	"	8	526.76	4214.08
		(Rupees Five hundred Twenty Six and Paise Seventy Six Only)			
	c) 150mm dia	"	10	851.13	8511.30
		(Rupees Eight hundred Fifty One and Paise Thirteen Only)			
	d) 200mm dia	"	10	1023.73	10237.30
		(Rupees One thousand Twenty Three and Paise Seventy Three Only)			
	e) 300mm dia	RM	10	1513.58	15135.80

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				(Rupees One thousand Five hundred Thirteen and Paise Fifty Eight Only)	
39	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	Each	20	455.09	9101.80
				(Rupees Four hundred Fifty Five and Paise Nine Only)	
	b) 300mm dia to 500mm dia	Each	20	815.12	16302.40
				(Rupees Eight hundred Fifteen and Paise Twelve Only)	
	c) 600mm dia	"	20	692.44	13848.80
				(Rupees Six hundred Ninety Two and Paise Forty Four Only)	
40	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	RM	6	76.62	459.72
				(Rupees Seventy Six and Paise Sixty Two Only)	
	b) 100mm dia	"	6	110.52	663.12
				(Rupees One hundred Ten and Paise Fifty Two Only)	
	c) 150mm dia & above	"	10	131.47	1314.70
				(Rupees One hundred Thirty One and Paise Forty Seven Only)	
41	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).				
		Sqm.	10	154.29	1542.90
				(Rupees One hundred Fifty Four and Paise Twenty Nine Only)	
42	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) (Cement free issue by VSP)				
		Sqm.	10	158.52	1585.20
				(Rupees One hundred Fifty Eight and Paise Fifty Two Only)	
44	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.				
		Kgs.	2	7061.31	14122.62
				(Rupees Seven thousand Sixty One and Paise Thirty One Only)	

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
48	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)	Each	2	3935.59	7871.18
		(Rupees Three thousand Nine hundred Thirty Five and Paise Fifty Nine Only)			
49	Flushing of existing bore wells with DTH/rig with compressor. The approximate depth of the bore well will be upto 80 Mtrs.	Each	2	7476.24	14952.48
		(Rupees Seven thousand Four hundred Seventy Six and Paise Twenty Four Only)			
50	Replacement of damaged jet/foot valve in the existing bore well, supply and fixing new foot valve, including the cost of tools, labour and material required for repair complete. (Payment for lifting and lowering will be made against item No.48).	Nos.	2	1066.47	2132.94
		(Rupees One thousand Sixty Six and Paise Forty Seven Only)			
52	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 10 ltrs Dual System. Cistern with internal kit and suitable bend pipe (complete set)	Each	10	1680.17	16801.70
		(Rupees One thousand Six hundred Eighty and Paise Seventeen Only)			
	b) Internal kit for 10 ltrs. Low level cistern.	Each	250	740.87	185217.50
		(Rupees Seven hundred Forty and Paise Eighty Seven Only)			
	c) CI 10 ltrs automatic flushing cistern with internal kit (complete set)	"	2	786.14	1572.28
		(Rupees Seven hundred Eighty Six and Paise Fourteen Only)			
	d) PVC Low level 10 ltrs. Cistern with internal kit and suitable bend pipe (complete set)	Each	400	1286.08	514432.00
		(Rupees One thousand Two hundred Eighty Six and Paise Eight Only)			
53	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.	Each	150	828.45	124267.50
		(Rupees Eight hundred Twenty Eight and Paise Forty Five Only)			
54	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.	Each	20	1020.86	20417.20
		(Rupees One thousand Twenty and Paise Eighty Six Only)			
56	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.				

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
	a) PVC flush bend 32mm dia for High level/low level flush tanks)	Set	360	118.13	42526.80
		(Rupees One hundred Eighteen and Paise Thirteen Only)			
	b) Plastic EWC seat cover with lid, CP brass hinges, rubber buffers etc., complete set	"	100	298.87	29887.00
		(Rupees Two hundred Ninety Eight and Paise Eighty Seven Only)			
57	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)	Each	1400	79.81	111734.00
		(Rupees Seventy Nine and Paise Eighty One Only)			
	b) 32mm dia PVC waste pipe with union for wash basins	"	1640	62.62	102696.80
		(Rupees Sixty Two and Paise Sixty Two Only)			
	c) 40mm dia PVC pipe with union for kitchen sinks	"	420	69.34	29122.80
		(Rupees Sixty Nine and Paise Thirty Four Only)			
	d) 32mm dia CP waste for wash basins	"	1180	96.00	113280.00
		(Rupees Ninety Six Only)			
	e) 40mm dia CP waste for kitchen sink and wash basins	"	270	95.11	25679.70
		(Rupees Ninety Five and Paise Eleven Only)			
	f) 32mm dia CP bottle trap	"	2	359.04	718.08
		(Rupees Three hundred Fifty Nine and Paise Four Only)			
	g) CI brackets for wash basin & flush tanks	Pair	120	93.43	11211.60
		(Rupees Ninety Three and Paise Forty Three Only)			
58	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.				
	a) CP brass shower rose 100mm dia with GI nipple	Each	200	138.27	27654.00
		(Rupees One hundred Thirty Eight and Paise Twenty Seven Only)			
59	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	Each	500	300.03	150015.00
		(Rupees Three hundred and Paise Three Only)			
	b) 15mm long body bib cock	"	12	359.93	4319.16
		(Rupees Three hundred Fifty Nine and Paise Ninety Three Only)			
	c) 15mm CP brass pillar cock	"	1000	370.79	370790.00
		(Rupees Three hundred Seventy and Paise Seventy Nine Only)			
	d) 32mm dia CP brass flush cock	"	2	1503.69	3007.38
		(Rupees One thousand Five hundred Three and Paise Sixty Nine Only)			
	e) 15mm PVC bib cocks	Each	780	92.92	72477.60
		(Rupees Ninety Two and Paise Ninety Two Only)			
	f) 15mm hexagonal spindles	Each	400	105.77	42308.00
		(Rupees One hundred Five and Paise Seventy Seven Only)			

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
	g) Repair of old bib cocks by providing new fabricated spindle	"	200	105.44	21088.00
		(Rupees One hundred Five and Paise Forty Four Only)			
60	Supply of bib cocks 15mm short body 400 grams weight as per ISI to VSP Town Admn.stores/site as directed by the Engineer.	Each	20	155.63	3112.60
		(Rupees One hundred Fifty Five and Paise Sixty Three Only)			
61	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.,	Each	20	177.16	3543.20
		(Rupees One hundred Seventy Seven and Paise Sixteen Only)			
	b) Dummy 32/40mm for OH tanks to existing pipe/socket	Each	500	52.18	26090.00
		(Rupees Fifty Two and Paise Eighteen Only)			
	c) Clamps for GI pipes upto 40mm dia	Each	380	7.35	2793.00
		(Rupees Seven and Paise Thirty Five Only)			
62	Providing and fixing vitirus fittings.				
	a) Urinal basin size: 440mm	Each	2	778.17	1556.34
		(Rupees Seven hundred Seventy Eight and Paise Seventeen Only)			
	b) Urinal basin size: 630mm	Each	2	1093.27	2186.54
		(Rupees One thousand Ninety Three and Paise Twenty Seven Only)			
63	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.	Ton	2	12977.31	25954.62
		(Rupees Twelve thousand Nine hundred Seventy Seven and Paise Thirty One Only)			
64	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.	RM	2	1317.24	2634.48
		(Rupees One thousand Three hundred Seventeen and Paise Twenty Four Only)			
65	Providing and fixing of sintex or other approved equivalant 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	Each	10	4681.11	46811.10
		(Rupees Four thousand Six hundred Eighty One and Paise Eleven Only)			
	b) 1000 Ltrs capacity	Each	20	5594.86	111897.20
		(Rupees Five thousand Five hundred Ninety Four and Paise Eighty Six Only)			
	c) 2000 Ltrs capacity	Each	2	10323.91	20647.82
		(Rupees Ten thousand Three hundred Twenty Three and Paise Ninety One Only)			

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
66	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	"	400	557.94	223176.00
		(Rupees Five hundred Fifty Seven and Paise Ninety Four Only)			
	e) Cuddapha slab 25mm thick	Sqm.	100	526.40	52640.00
		(Rupees Five hundred Twenty Six and Paise Forty Only)			
67	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).				
	a) Low Level Flush tanks	Each	20	349.16	6983.20
		(Rupees Three hundred Forty Nine and Paise Sixteen Only)			
68	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).				
		Each	100	252.23	25223.00
		(Rupees Two hundred Fifty Two and Paise Twenty Three Only)			
69	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	Each	4	1489.68	5958.72
		(Rupees One thousand Four hundred Eighty Nine and Paise Sixty Eight Only)			
	b)1000 Ltrs. Capacity	Each	20	1778.19	35563.80
		(Rupees One thousand Seven hundred Seventy Eight and Paise Nineteen Only)			
	c) 2000 Ltrs. Capacity	Each	4	3059.01	12236.04
		(Rupees Three thousand Fifty Nine and Paise One Only)			
70	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).				
		Each	10	378.45	3784.50
		(Rupees Three hundred Seventy Eight and Paise Forty Five Only)			

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
71	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).	Each	2	178.21	356.42
(Rupees One hundred Seventy Eight and Paise Twenty One Only)					
72	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.	RM	1000	79.92	79920.00
(Rupees Seventy Nine and Paise Ninety Two Only)					
73	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.	RM	1000	112.44	112440.00
(Rupees One hundred Twelve and Paise Forty Four Only)					
74	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.	Each	100	179.8	17980.00
(Rupees One hundred Seventy Nine and Paise Eighty Only)					
75	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.	Each	100	167.16	16716.00
(Rupees One hundred Sixty Seven and Paise Sixteen Only)					
CE-1	Providing and fixing G.I.Pipe specials such as bends/Tees/Sockets/Reducers/Dummy Etc.including cost of all materials, tools and labour complete.				
	a) 15mm dia	Number	200	20.08	4016.00
(Rupees Twenty and Paise Eight Only)					
CE-2	b)20mm dia.	Number	200	27.97	5594.00
(Rupees Twenty Seven and Paise Ninety Seven Only)					
CE-3	c) 25 mm dia.	Number	200	37.24	7448.00
(Rupees Thirty Seven and Paise Twenty Four Only)					
CE-4	c) 32 mm dia.	Number	200	51.04	10208.00
(Rupees Fifty One and Paise Four Only)					
CE-5	c) 40 mm dia.	Number	200	66.73	13346.00
(Rupees Sixty Six and Paise Seventy Three Only)					
CE-6	c) 50 mm dia.	Number	200	101.45	20290.00
(Rupees One hundred One and Paise Forty Five Only)					
CE-7	Providing and fixing G.I.Union in existing G.I.Pipe line including cutting and threading the pipe, cost of all materials, tools and labour complete.				
	a) 15mm dia	Number	200	77.83	15566.00
(Rupees Seventy Seven and Paise Eighty Three Only)					
CE-8	b)20mm dia.	Number	200	96.29	19258.00
(Rupees Ninety Six and Paise Twenty Nine Only)					
CE-9	c) 25 mm dia.	Number	200	118.35	23670.00
(Rupees One hundred Eighteen and Paise Thirty Five Only)					

BOQ ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	RATE IN WORDS AND FIG.(Rs.Ps.)	AMOUNT (Rs.Ps.)
CE-10	c) 32 mm dia.	Number	200	153.16	30632.00
				(Rupees One hundred Fifty Three and Paise Sixteen Only)	
CE-11	c) 40 mm dia.	Number	200	179.89	35978.00
				(Rupees One hundred Seventy Nine and Paise Eighty Nine Only)	
CE-12	c) 50 mm dia.	Number	200	267.37	53474.00
				(Rupees Two hundred Sixty Seven and Paise Thirty Seven Only)	
	Total of Part-A			Rs.	4909143.02
	<u>PART-B</u>				
	<u>UN-MEASURABLE JOBS</u>				
	The rates mentioned herein shall remain firm until further revision by VSP, on the basis of minimum wages act, 1936 for contract labour (the rates indicated include the wages notified in the relevant gazettee, minimum wages including weekly-off, wages, P.F contribution from contractor, Labour licence and W.C. Insurance, GPA, Safety appliances, Minimum common tools & tackles, Annual Leave with wages, Holiday wages and Retrenchment Compensation and Contractor's Profit and Overheads). Any changes made in the rates by the tenderer shall not be taken into cognizance.				
	Whenever VSP notified revision in the rates for different categories of workers, the same shall be applicable for payment from the effective date as mentioned in the circular issued by VSP.				
1	Carrying out miscellaneous jobs of various trades through artisan staff and helpers along with necessary tools of the trades for working at all levels etc. complete as per specifications and/or as directed by the Engineer.				
	a) Skilled	Man day	20	599.40	11988.00
				(Rupees Five hundred Ninety Nine and Paise Forty Only)	
	(1st class mason, 1st class carpenter, 1st class painter, mechanic, stone dresser, piper, fitter, plumber, pot tile turner, mason or carpenter mastery, stone cutter, welder, electrician (Licensed mastery or works mastery) machinist, supervisor)				
	b) Semi-skilled	Man day	200	514.25	102850.00
				(Rupees Five hundred Fourteen and Paise Twenty Five Only)	
	(2nd class mason, 2nd class carpenter or assistant carpenter, 2nd class blacksmith, 2nd class painter, fitter for bending bars for reinforcement, tinker, sewer, glassier, brick molder, pot tile turner brick and lime kiln man, assistant fitter)				
	c) Un-skilled	Man day	500	458.50	229250.00
				(Rupees Four hundred Fifty Eight and Paise Fifty Only)	
	(Mazdoor, gang mazdoor, thatchar mukkadam, peon, sweeper, bhisthee, scavenger, watch man, security guard)				
	Total of Part-B			Rs.	344088.00
	TOTAL OF PART-A + PART-B			Rs.	5253231.02