CHAPTER NO. 28

WATER SUPPLY

Notes:-

- (i) (For labour rate items only) The rates for stringingout cast iron,A.C., P.V.C. and H.D.P.E. pipes and their specials etc. provided under this chapter which are in the wider sense labour rates in case of which the material is generally issued to the contractors free of cost from the stores of the Engineerin-Charge or the nearest railway station, include the carriage of material within a redius of 5km of the site of works.
- (ii) The rates for excavation are applicable for excavation both manually as well as by mechanical means.
- (iii) The rates taken in the CSR are for above 80mm i/d water supply lines where department shall furnish excise duty certificate to the contractor. In case of works other than water supply, where these pipes are used and department does not furnish any excise duty exemption certificate, applicable excise duty will be paid extra.

Sr.	Description.	Unit	Pla	ins	Sub-mou	ntainous
No.			Labour	Through	Labour	Through
			Rate	Rate	Rate	Rate
1	2	3	4	5	6	7
28.1	Excavation for pipe lines in trenches an pits including trimming and dressin sides levelling of beds of trenches to correct grade, cutting joint holes, refilling consolidation and watering of refill in 15cm layers and restoration of unmettaled or unpaved surface to it original condition including the cost of necessary shoring, timbering dewatering of rain water, diversion for traffic, night signals, providing & fixing caution boards, crossing over trenches for access to the houses, watching fencing, etc. and removal of surplus spoll out side/inside the town involving lead upto one kilometer.					
(a)	Earth work upto 1.5 m Depth for					
	: All also as of sail account made.	1				
	i All classes of soil except rocky.	cum	177.10		194.81	
	ii For ordinary gravel soil involvin pick work.	cum	208.75		229.63	
	iii For Semi Conglomerate or soil of the nature of pick jumper work.	f cum	240.40		264.44	
(b)	Exceeding 1.5 m depth but no exceeding 2.25 m depth for	t				
	i All classes of soil except rocky.	cum	180.29		198.32	

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Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	ii	For ordinary gravel soil involving pick work.	cum	218.62		240.48	
	iii	For Semi Conglomerate or soil of the nature of pick jumper work.	cum	264.44		290.88	
(c)	Excee	eding 2.25 m depth upto 3.00 m for					
	i	All classes of soil except rocky.	cum	187.78		206.56	
	ii	For ordinary gravel soil involving pick work.	cum	226.11		248.72	
	iii	For Semi Conglomerate or soil of the nature of pick jumper work.	cum	279.43		307.37	
(d)	Excee	eding 2.25 m depth upto 3.00 m					
	i	All classes of soil except rocky.	cum	197.61		217.37	
	ii	For ordinary gravel soil involving pick work.	cum	235.94		259.53	
	iii	For Semi Conglomerate or soil of the nature of pick jumper work.	cum	296.75		326.43	
(e)	Exce	eding 4.5 m depth upto 6.0 m depth					
	i	All classes of soil except rocky.	cum	207.43		228.17	
	ii	For ordinary gravel soil involving pick work.	cum	245.14		269.65	
	iii	For Semi Conglomerate or soil of the nature of pick jumper work.	cum	314.07		345.48	
(f)	Exce	Exceeding 6.0m depth upto7.5 m depth for					
	i	All classes of soil except rocky.	cum	217.25		238.98	

Sr.		Description.	Unit	Pla	ins	Sub-mountainous		
No.		·		Labour	Through	Labour	Through	
				Rate	Rate	Rate	Rate	
1		2	3	4	5	6	7	
	ii	For ordinary gravel soil involving pick work.	cum	255.58		281.14		
		pick work.	cum	255.56		201.14		
	iii	For Semi Conglomerate or soil of						
		the nature of pick jumper work.						
			cum	331.38		364.52		
28.2	Excavation for Pipe lines in trenches and Pits upto 1.5m Depth including trimming and dressing sides, levelling of beds of trenches to correct grade, cutting joint holes, refilling, consolidation and watering of refill in 15cm layers and Restoration of unmatalled or unpaved surface to its original condition, excluding cost of shoring timbering but including the cost of dewatering of rain water, diversion for traffic, night signals, providing & fixing caution boards, crossing over trenches for access to the houses, watching, fencing, etc., and removal of surplus soil out side/ inside the town involving lead upto one km.							
	(a)	In classes of soil except rocky.	cum	98.10		107.91		
	(b)	In ordinary gravel-soil involving pick work.	cum	129.75		142.73		
	(c)	In Semi Conglomerate or soil of the nature of pick jumper work.	cum	161.40		177.54		
28.3	pits ir surplu alignm dressi trench holes, in refil unmer origina cost co of rain signal	ration for pipe lines in trenches and a open areas whrere disposal of its earth is done along the nent including trimming and ang sides, levelling of beds of ites to correct grade, cutting joint consolidation and watering of refill ling 15cm layers and restoration of talled or unpaved surface to its al condition. The rate includes the of necessary timbering dewatering in water diversion for traffice night is, providing & fixing caution is, watching fencing etc.						
(a)	Upto 1	1.5m depth						

Sr.		Description.	Unit	Pla	ins	Sub-mountainous	
No.		•		Labour Rate	Through Rate	Labour Rate	Through Rate
1	1	2	3	4	5	6	7
	(i)	All classes of soil except rocky.	cum	157.11	-	172.82	
	(ii)	In ordinary gravel soil involving pick work.	cum	188.46		207.31	
	(iii)	In Semi Conglomerate or soil of the nature of pick jumper work.	cum	219.80		241.78	
(b)	Excee for	eding 1.5m depth upto2.25 m depth					
	(i)	All classes of soil except rocky.	cum	160.86		176.95	
	(ii)	In ordinary gravel soil involving pick work.	cum	199.19		219.11	
	(iii)	In Semi Conglomerate or soil of the nature of pick jumper work.	cum	245.01		269.51	
(c)	Excee	eding 2.25m depth upto3.0 m depth					
	(i)	All classes of soil except rocky.	cum	168.35		185.19	
	(ii)	In ordinary gravel soil involving pick work.	cum	206.68		227.35	
	(iii)	In Semi Conglomerate or soil of the nature of pick jumper work.	cum	260.00		286.00	
(d)	Excee	eding 3.0m depth upto 4.50 m for					
	(i)	All classes of soil except rocky.	cum	178.18		196.00	
	(ii)	In ordinary gravel soil involving pick work.	cum	216.51		238.16	
	(iii)	In Semi Conglomerate or soil of the nature of pick jumper work.	cum	277.32		305.05	
(e)	Excee	eding 4.50 m depth upto 6.0 m for					

Sr.		Description.	Unit	Pla	ins	Sub-mountainous	
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	(i)	All classes of soil except rocky.	cum	188.00		206.80	
	(")	1					
	(ii)	In ordinary gravel soil involving pick work.	cum	226.33		248.96	
	(iii)	In Semi Conglomerate or soil of					
	(111)	the nature of pick jumper work.					
		the nature of pick jumper work.	01100	204 62		224.00	
			cum	294.63		324.09	
(£)	Ir	dia a CO as death water 7.50 as					
(f)		eding 6.0 m depth upto 7.50 m					
	depth	TOF					
	1 (1)	TAIL C 11					
	(i)	All classes of soil except rocky.					
			cum	197.82		217.60	
	(ii)	In ordinary gravel soil involving					
		pick work.	cum	236.15		259.77	
	(iii)	In Semi Conglomerate or soil of					
		the nature of pick jumper work.					
			cum	311.95		343.15	
	1=						
28.4		vation for Pipe Lines in trenches					
		its upto 1.5m Depth in open area					
		e disposal of surplus earth is done					
		with alignment, including trimming					
		rsessing sides, levelling of beds of					
		nes to correct grade, cutting joint					
	holes,	·					
		ing of refill in 15cm layers and					
	Resto	ration of unmetalled or unpaved					
	surfac	ce to its original condition excluding					
	cost	of shoring and timbering but					
	includ	ing the cost of dewatering of rain					
	water	, diversion for traffic, night signals,					
	provid	ling & fixing caution boards,					
	watch	ing, fencing etc.					
	(-)	In all alongon of call average realist					
	(a)	In all classes of soil except rocky.					
			cum	78.11		85.92	
	(b)	In ordinary gravel-soil involving					
		pick work.	cum	109.46		120.41	
	(c)	In Semi Conglomerate or soil of					
		the nature of pick jumper work.					
			cum	140.80		154.88	
28.5		for disposal of surplus soil on Item					
	No. 28	8.1 and 28.2 beyond one km.		Rate for this	s item will be	given as pe	Chapter 5
					rriage.	-	
	-						

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
28.6	Concr includi at the	for cutting Through Cement ete Roads and their foundations ing sorting and stacking the soling site of work as ordered by the eer-in-charge.		Rate for this		e given as pe antling.	r Chapter 8
28.7	and to	for cutting through metalled Roads heir foundation including sorting hing and stacking the soling stone bad metal at the site of work as ed by the Engineer-in-charge.		Rate for this		given as per d work.	Chapter 24
28.8	(a)	Consolidation of road cuts with hammers, hand rollers and laying of flat brick soling/pavement (at formation level) complete so as to allow unobstructed traffic (with dismantled material at site).		4.75		5.23	
			Sqiii	4.75		5.25	
	(b)	Recondition road cuts with hammers, hand rollers and laying of stone metal / bajri in soling / base coarse confirming to WBM specifications (at formation level) complete so as to allow unobstructed traffic (with dismantled material at site).					
			cum	196.08		215.69	
28.9 A	and to Class-same and g	ling, Stringing out, cutting, Jointing esting of ISI Marked C.I. Pipes LA per IS:1536 and laying the in trenches to correct alignment radients, jointed with rubber tyton fitted complete including all e.					
	(-)	00mm i/d nino lino laid agreentate	Г				
	(a)	80mm i/d pipe line laid complete.	m	62.16	1022.66	68.38	1028.88
	(b)	100mm i/d pipe line laid complete.	m	80.79	1293.74	88.87	1301.82
	(c)	125mm i/d pipe line laid complete.	m	Deleted a	as this size is	s not in use n	nowadays

Rate	Sr.		Des	scrip	tion.			Unit	Plains		Sub-mountainous	
This is a complete	No.									_		Through
(d) 150mm i/d pipe line laid complete. (e) 200mm i/d pipe line laid m 108.78 1931.27 119.66 1942.1 (e) 200mm i/d pipe line laid m 148.90 3085.83 163.79 3100.7 (f) 250mm i/d pipe line laid complete. (g) 300mm i/d pipe line laid m 291.17 5401.54 320.29 5430.6 (h) 350mm i/d pipe line laid m 343.66 7069.64 378.03 7104.0 (i) 400mm i/d pipe line laid m 397.95 8402.14 437.75 8441.5 (j) 450mm i/d pipe line laid m 493.81 9975.69 543.19 10025.0 (k) 500mm i/d pipe line laid complete. (k) 500mm i/d pipe line laid complete. (ii) 600mm i/d pipe line laid complete. (iii) In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. (b) 100mm i/d pipe line laid complete. (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 100mm i/d pipe line laid complete. (e) 100mm i/d pipe line laid complete. (f) 100mm i/d pipe line laid complete. (g) 100mm i/d pipe line laid complete. (h) 100mm i/d pipe line laid complete. (iii) Deleted as this size is not in use nowadays												
(e) 200mm i/d pipe line laid m 148.90 3085.83 163.79 3100.7 (f) 250mm i/d pipe line laid m 190.18 4056.82 209.20 4075.8 (g) 300mm i/d pipe line laid complete. m 291.17 5401.54 320.29 5430.6 (h) 350mm i/d pipe line laid complete. m 343.66 7069.64 378.03 7104.0 (i) 400mm i/d pipe line laid complete. m 397.95 8402.14 437.75 8441.5 (j) 450mm i/d pipe line laid m 397.95 8402.14 437.75 8441.5 (k) 500mm i/d pipe line laid m 493.81 9975.69 543.19 10025.0 (k) 500mm i/d pipe line laid complete. m 577.56 11996.46 635.32 12054.2 (l) 600mm i/d pipe line laid complete. m 739.19 15955.77 813.11 16029.6 Note In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing B and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.5 (b) 100mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1	1	(4)	150mm		nino	lino	laid	3	4	5	6	7
(e) 200mm i/d pipe line laid m 148.90 3085.83 163.79 3100.7 (f) 250mm i/d pipe line laid m 190.18 4056.82 209.20 4075.8 (g) 300mm i/d pipe line laid m 291.17 5401.54 320.29 5430.6 (h) 350mm i/d pipe line laid m 343.66 7069.64 378.03 7104.0 (i) 400mm i/d pipe line laid m 397.95 8402.14 437.75 8441.5 (j) 450mm i/d pipe line laid complete. (ii) 450mm i/d pipe line laid m 397.95 11996.46 635.32 12054.2 (li) 600mm i/d pipe line laid complete. m 739.19 15955.77 813.11 16029.6 Note In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing B and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.9 (b) 100mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1		(u)			pipe	iine	iaiu	m	108.78	1931.27	119.66	1942.15
Complete.			100									
(f) 250mm i/d pipe line laid m 190.18 4056.82 209.20 4075.8 (g) 300mm i/d pipe line laid m 291.17 5401.54 320.29 5430.6 (h) 350mm i/d pipe line laid complete. m 343.66 7069.64 378.03 7104.0 (i) 400mm i/d pipe line laid m 397.95 8402.14 437.75 8441.9 (i) 450mm i/d pipe line laid m 493.81 9975.69 543.19 10025.0 (k) 500mm i/d pipe line laid complete. m 577.56 11996.46 635.32 12054.2 (l) 600mm i/d pipe line laid m 739.19 15955.77 813.11 16029.6 Note lin case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints littled complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.9 (b) 100mm i/d pipe line laid m 80.79 997.06 88.87 1005.1		(e)			pipe	line	laid		4 40 00	2225 22	400 70	0400 70
Complete.			complete.					m	148.90	3085.83	163.79	3100.72
Complete.		(f)	250mm	i/d	pipe	line	laid					
Complete.		()						m	190.18	4056.82	209.20	4075.84
Complete.		()	1000	•/ •								
(h) 350mm i/d pipe line laid m 343.66 7069.64 378.03 7104.0 (i) 400mm i/d pipe line laid m 397.95 8402.14 437.75 8441.9 (j) 450mm i/d pipe line laid m 493.81 9975.69 543.19 10025.0 (k) 500mm i/d pipe line laid m 577.56 11996.46 635.32 12054.2 (l) 600mm i/d pipe line laid complete. m 739.19 15955.77 813.11 16029.6 Note complete. m 739.19 15955.77 813.11 16029.6 Note line case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.9 (b) 100mm i/d pipe line laid m 80.79 997.06 88.87 1005.1 (c) 125mm i/d pipe line laid complete. m Deleted as this size is not in use nowadays		(g)			pipe	line	laid	m	201 17	5401 54	320.20	5430.66
Complete.			complete.						251.17	3401.34	320.23	0400.00
(i) 400mm i/d pipe line laid complete. (ii) 450mm i/d pipe line laid complete. (iv) 450mm i/d pipe line laid complete. (iv) 500mm i/d pipe line laid complete. (iv) 600mm i/d pipe line laid complete. (v) 600mm i/d pipe line laid c		(h)	350mm	i/d	pipe	line	laid					
Complete. m 397.95 8402.14 437.75 8441.5			complete.					m	343.66	7069.64	378.03	7104.01
Complete. m 397.95 8402.14 437.75 8441.5		/:\	100	:/-1		lin a	la lal				1	
(i) 450mm i/d pipe line laid m 493.81 9975.69 543.19 10025.0 (k) 500mm i/d pipe line laid complete. m 577.56 11996.46 635.32 12054.2 (l) 600mm i/d pipe line laid complete. m 739.19 15955.77 813.11 16029.6 Note In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. (b) 100mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.9 (c) 125mm i/d pipe line laid complete. m B0.79 997.06 88.87 1005.1		(1)	1		pipe	line	iaid	m	397 95	8402 14	437 75	8441 94
(k) 500mm i/d pipe line laid complete. m 493.81 9975.69 543.19 10025.00 (k) 500mm i/d pipe line laid complete. m 577.56 11996.46 635.32 12054.20 (l) 600mm i/d pipe line laid complete. m 739.19 15955.77 813.11 16029.60 Note (i) In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.90 (b) 100mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.10 (c) 125mm i/d pipe line laid complete. m Deleted as this size is not in use nowadays			Toompioto.						007.00	0 102.11	107.70	0111.01
(k) 500mm i/d pipe line laid m 577.56 11996.46 635.32 12054.2 (l) 600mm i/d pipe line laid m 739.19 15955.77 813.11 16029.6 Note In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.5 (b) 100mm i/d pipe line laid m 80.79 997.06 88.87 1005.1 (c) 125mm i/d pipe line laid m Deleted as this size is not in use nowadays		(j)	1		pipe	line	laid					
Complete. m 577.56 11996.46 635.32 12054.2			complete.					m	493.81	9975.69	543.19	10025.07
Complete. m 577.56 11996.46 635.32 12054.2		(k)	500mm	i/d	nine	line	laid					
Note (i) In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete as this size is not in use nowadays		(14)	1		pipo		iaia	m	577.56	11996.46	635.32	12054.22
Note (i) In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete as this size is not in use nowadays		(1)				г	1 - 1 - 1					
Note (i) In case ISI marked CI pipe class-A as per IS 7181 is used, the through rate will be increased by 10% in item no 28.9-A (ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. m B0.79 997.06 88.87 1005.1		(1)	1		pipe	line	laid		700.40	45055 77	040.44	40000.00
(ii) 10% in item no 28.9-A (iii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1			John Pioto.					m	739.19	15955.77	813.11	16029.69
(ii) In case ISI marked CI pipe class-B as per IS 7181 is used, the through rate will be increased by 20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1	Note	In cas	e ISI marke	ed CI	pipe cl	ass-A	as pei	IS 7181	is used, the t	hrough rate	will be increa	sed by
20% in item no 28.9-A 28.9 Providing, Stringing out, cutting, Jointing and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1												
28.9 Providing, Stringing out, cutting, Jointing B and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 125mm i/d pipe line laid complete. (e) 125mm i/d pipe line laid complete. (f) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid complete. (h) 100mm i/d pipe line laid pipe line laid complete. (h) 100mm i/d pipe line laid pipe line laid complete. (h) 100mm i/d pipe line laid pipe line laid complete. (h) 125mm i/d pipe line laid pipe line laid complete.	(ii)	1				ass-B	as pei	' IS 7181	is used, the t	hrough rate	will be increa	ised by
B and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.9 (b) 100mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1		20% 1	n item no 28	8.9-	١							
B and testing of ISI marked D.I. Pipe as per IS 8329 and laying the same in trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 125mm i/d pipe line laid complete. (e) 125mm i/d pipe line laid complete. (f) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid pipe line laid complete. (g) 125mm i/d pipe line laid pipe line	28.9	Provid	⊥ lina. Strinai	na o	ut. cutti	na. Jo	intina					
trenches to correct alignment and gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 125mm i/d pipe line laid complete. (e) 125mm i/d pipe line laid complete. (f) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid complete. (h) 100mm i/d pipe line laid complete. (h) 100mm i/d pipe line laid complete. (h) 100mm i/d pipe line laid pipe line laid complete.			-	_		-	-					
gradients, jointed with rubber tyton joints fitted complete including all cartage. A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. m 62.16 959.75 68.38 965.9 (b) 100mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1		1.5										
A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 125mm i/d pipe line laid complete. (e) 125mm i/d pipe line laid complete. (f) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid complete. (h) Deleted as this size is not in use nowadays					_							
A D.I. Pipe as per IS 8329 DI-K7 (a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1												
(a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 105.1 (e) 125mm i/d pipe line laid complete. (f) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid complete. (h) Deleted as this size is not in use nowadays												
(a) 80mm i/d pipe line laid complete. (b) 100mm i/d pipe line laid complete. (c) 125mm i/d pipe line laid complete. (d) 105.1 (e) 125mm i/d pipe line laid complete. (f) 125mm i/d pipe line laid complete. (g) 125mm i/d pipe line laid complete. (h) Deleted as this size is not in use nowadays		D.I. P	pe as per l	IS 83	29 DI-k	(7						
(b) 100mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1							lete					
(c) 125mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1		(α)		pipc	iiio iaic	COMP	noto.	m	62.16	959.75	68.38	965.97
(c) 125mm i/d pipe line laid complete. m 80.79 997.06 88.87 1005.1												
(c) 125mm i/d pipe line laid complete. m Deleted as this size is not in use nowadays		(b)	1		pipe	line	laid		00.70	007.00	00.07	4005.44
complete. m Deleted as this size is not in use nowadays				m	80.79	997.06	88.87	1005.14				
complete. m Deleted as this size is not in use nowadays			pipe	line	laid							
			1									
(d) 150mm i/d pipe line laid								m	Deleted a	as this size is	s not in use n	owadays
(a) 100111111 /a pipe IIIe a a		(4)	150mm	i/d	nine	line	Jaid				1	
complete. m 108.78 1423.07 119.66 1433.9		(u)	1		hihe	11116	iaiu	m	108.78	1423.07	119.66	1433.95
											'	

Sr.	Description.						Unit	Plains		Sub-mountainous	
No.								Labour Rate	Through Rate	Labour Rate	Through Rate
1	()	laa.	2				3	4	5	6	7
	(e)	200mm complete.	i/d	pipe	line	laid	m	148.90	1767.83	163.79	1782.72
	(f)	250mm	i/d	pipe	line	laid					
	(.,	complete.	., G	P.P0			m	190.18	2278.33	209.20	2297.35
	(g)	300mm complete.	i/d	pipe	line	laid	m	291.17	2934.92	320.29	2964.04
	(h)	350mm complete.	i/d	pipe	line	laid	m	343.66	3673.73	378.03	3708.10
	(:)	100	:/-1		1:	الدادا					
	(i)	400mm complete.	i/d	pipe	line	laid	m	397.95	4357.15	437.75	4396.95
	(j)	450mm complete.	i/d	pipe	line	laid	m	493.81	5190.69	543.19	5240.07
	T (1)	I=									
	(k)	500mm complete.	i/d	pipe	line	laid	m	577.56	6082.15	635.32	6139.91
	(I)	600mm complete.	i/d	pipe	line	laid	m	739.19	7987.61	813.11	8061.53
В	D.I. P	ipe as per	IS 83	329 DI-K	(9						
	(a)	80mm i/d	pipe	line laid	d comp	lete.	m	62.16	1072.97	68.38	1079.19
	(b)	100mm complete.	i/d	pipe	line	laid	m	80.79	1112.61	88.87	1120.69
	(0)	125mm	i/d	nine	lino	laid					
	(c)	complete.		pipe	line	iaiu	m	Deleted a	as this size is	not in use n	owadays
	(d)	150mm complete.	i/d	pipe	line	laid	m	108.78	1571.30	119.66	1582.18
	(e)	200mm complete.	i/d	pipe	line	laid	m	148.90	1979.10	163.79	1993.99
	(f)	250mm complete.	i/d	pipe	line	laid	m	190.18	2649.51	209.20	2668.53
	(g)	300mm complete.	i/d	pipe	line	laid	m	291.17	3393.63	320.29	3422.75
	(h)	350mm complete.	i/d	pipe	line	laid	m	343.66	4215.32	378.03	4249.69
	(i)	400mm complete.	i/d	pipe	line	laid	m	397.95	5088.99	437.75	5128.79
	(j)	450mm complete.	i/d	pipe	line	laid	m	493.81	6040.42	543.19	6089.80

Sr.		De	scrip	tion.			Unit	Pla	ins	Sub-mountainous	
No.			•					Labour	Through	Labour	Through
								Rate	Rate	Rate	Rate
1			2				3	4	5	6	7
,								<u>, , , , , , , , , , , , , , , , , , , </u>			,
	(k)	500mm	i/d	pipe	line	laid					
	` ′	complete.					m	577.56	7134.98	635.32	7192.74
	(I)	600mm	i/d	pipe	line	laid					
		complete.					m	739.19	9161.83	813.11	9235.75
	1_										
28.10		for fixing of									
		al position									
		nd pipes, so tools and									
		lete as d									
	Charg		CSIIC	u by i	Liigiiie	61-111-					
	Onlarg										
		100 :::				1 / 1					
	(a)	80mm i/d	pipe	line laid	d comp	iete.					
							m	35.05		38.55	
	-										
	(b)	100mm	i/d	pipe	line	laid					
		complete.						44.96		40.46	
							m	44.96		49.46	
	(c)	125mm	i/d	pipe	line	laid					
		complete.					m	58.59		64.45	
								00.00		0 1. 10	
	(d)	150mm	i/d	pipe	line	laid					
		complete.									
		·					m	73.63		80.99	
	(0)	2000	i/d		ادما	ام:ما		I I	I	I	
	(e)	200mm complete.		pipe	line	laid					
		complete.					m	106.38		117.02	
	(f)	250mm	i/d	pipe	line	laid					
		complete.					m	144.79		159.27	
								111.70		100.27	
	(a)	300mm	i/d	pipe	line	laid					
	(g)	complete.		pipe	IIIIE	lalu		400.45		200.07	
		complete.					m	188.15		206.97	
	4.5	050	.,.			1					
	(h)	350mm	i/d	pipe	line	laid					
		complete.					m	202.67		222.94	
	/n	100	.,.			1			1	1	
	(i)	400mm	i/d	pipe	line	laid					
		complete.					m	246.92		271.61	
	(j)	450mm	i/d	pipe	line	laid					
		complete.					m	299.13		329.04	
	(k)	500mm	i/d	pipe	line	laid					
	` ′	complete.		• •			m	348.16		382.98	

l '		Description.	Unit	Plai	ins	Sub-mountainous		
No.				Labour	Through	Labour	Through	
				Rate	Rate	Rate	Rate	
1		2	3	4	5	6	7	
	(I)	600mm i/d pipe line laid						
		complete.	m	467.10		513.81		
28.11	Provid	ling, Stringing out, cutting Jointing						
		ing A.C. Pipes ISI marked as per						
		92-2003 class-15 with suitable A C						
		ng or CI D-joints along the	1					
		es and laying the same into						
	Trencl	nes to correct alignment and						
	gradie							
	compl	ete.						
			<u> </u>					
	(a)	80mm i/d pipe	m	16.95	100.19	18.65	101.89	
	(b)	100mm i/d pipe	m	21.64	129.78	23.80	131.94	
	(c)	150mm i/d pipe	m m	30.02	242.80	33.02	245.80	
	(d)	200mm i/d pipe	m	44.68	436.38	49.15	440.85	
					1			
	(e)	250mm i/d pipe	m	59.34	810.31	65.27	816.24	
	correc	aying the same in Trenches to it alignment and gradients, cutting, g and testing including cost of als complete as per specifications.						
	i	63mm o/d pipe of 10 Kgf. / sqcm	m	5.44	102.77	5.98	103.31	
	ii	75mm o/d pipe of 10 Kgf. / sqcm						
			m	6.56	143.54	7.22	144.20	
	iii	90mm o/d pipe of 10 Kgf. / sqcm		7.85	206.11	8.64	206.00	
	iv	110mm o/d pipe of 10 Kgf. /	m	7.65	200.11	0.04	206.90	
	''	sqcm	m	9.84	299.41	10.82	300.39	
	V	160mm o/d pipe of 10 Kgf. /		0.0 .				
		sqcm	m	13.11	618.69	14.42	620.00	
	vi	200mm o/d pipe of 10 Kgf. /						
		sqcm	m	18.65	1280.27	20.52	1282.14	
	vii	250mm o/d pipe of 10 Kgf. /						
		sqcm	m	23.46	2114.15	25.81	2116.50	
	viii	63mm o/d pipe of 8 Kgf. / sqcm		Deleted As	Rates for the	is size are no	t available	
	:	75mm old nine of 0 Met / see:	m	Doloto - A -	Dotos for 41.	io ol a o o	t ovellette	
	ix	75mm o/d pipe of 8 Kgf. / sqcm 90mm o/d pipe of 8 Kgf. / sqcm	m			is size are no is size are no		
	X	Sommore pipe of 6 kgr. / Sqcm	_ m	Deleted AS	ivales ioi (ii	is size ale 110	avallable	
	xi	110mm o/d pipe of 8 Kgf. / sqcm	m		1	I		
	_ ^i		m	9.84	254.96	10.82	255.94	

Sr.		Description.	Unit	Pla	ins	Sub-mountainous		
No.				Labour Rate	Through Rate	Labour Rate	Through Rate	
1		2	3	4	5	6	7	
	xii	160mm o/d pipe of 8 Kgf. / sqcm	m	13.11	529.78	14.42	531.09	
	xiii	200mm o/d pipe of 8 Kgf. / sqcm	m	18.65	1057.99	20.52	1059.86	
	xiv	250mm o/d pipe of 8 Kgf. / sqcm	m	23.46	1714.04	25.81	1716.39	
	ΧV	63mm o/d pipe of 6 Kgf. / sqcm	m	5.44	70.32	5.98	70.86	
	xvi	75mm o/d pipe of 6 Kgf. / sqcm	m	6.56	95.47	7.22	96.13	
	xvii	90mm o/d pipe of 6 Kgf. / sqcm				8.64		
	xviii	110mm o/d pipe of 6 Kgf. / sqcm	m m	7.85 9.84	135.21 193.68	10.82	136.00 194.66	
	xix	160mm o/d pipe of 6 Kgf. / sqcm						
	XX	200mm o/d pipe of 6 Kgf. / sqcm	m	13.11	404.81	14.42	406.12	
	xxi	250mm o/d pipe of 6 Kgf. / sqcm	m	18.65	769.62	20.52	771.49	
	xxii	63mm o/d pipe of 4 Kgf. / sqcm	m	23.46	1237.02	25.81	1239.37	
		., .	m	5.44	49.90	5.98	50.44	
	xxiii	75mm o/d pipe of 4 Kgf. / sqcm	m	6.56	69.04	7.22	69.70	
	xxiv	90mm o/d pipe of 4 Kgf. / sqcm	m	7.85	95.56	8.64	96.35	
	XXV	110mm o/d pipe of 4 Kgf. / sqcm	m	9.84	136.00	10.82	136.98	
	xxvi	160mm o/d pipe of 4 Kgf. / sqcm	m	13.11	283.46	14.42	284.77	
	xxvii	200mm o/d pipe of 4 Kgf. / sqcm	m	18.65	530.51	20.52	532.38	
	xxviii	250mm o/d pipe of 4 Kgf. / sqcm	m	23.46	846.52	25.81	848.87	
	xxix	90mm o/d pipe of 2.50 Kgf. / sqcm	m	7.85	63.12	8.64	63.91	
	xxx	110mm o/d pipe of 2.50 Kgf. / sqcm	m	9.84	91.55	10.82	92.53	
	xxxi	160mm o/d pipe of 2.50 Kgf. / sqcm	 m	13.11	184.93	14.42	186.24	
	xxxii	200mm o/d pipe of 2.50 Kgf. / sqcm		18.65	352.68	20.52	354.55	
	xxxiii	250mm o/d pipe of 2.50 Kgf. /	m					
		sqcm	m	23.46	566.56	25.81	568.91	
28.13	as pe Trench Trench gradie includi	ing, Stringing out H.D.P.E. Pipes or ISI - 4984 casting along the nes and laying the same in nes to correct alignment and nts, cutting, jointing and testing ng cost of specials complete as ecifications.						

Sr.		Description.	Unit	Pla	ins	Sub-mountainous	
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	:	One managed with a left Class DE CO		10.45	440.04	12.70	4E4 0C
	i	90mm o/d pipe of 6 kg PE-63	m	12.45	449.81	13.70	451.06
	ii	110mm o/d pipe of 6 kg PE-63	m	15.77	664.61	17.35	666.19
		, , , , , , , , , , , , , , , , , , , ,					
	iii	90mm o/d pipe of 4 kg PE-63	m	12.45	321.25	13.70	322.50
		140 44 55 00 1		45 77	477.40	47.05	470.74
	iv	110mm o/d pipe of 4 kg PE-63	m	15.77	477.16	17.35	478.74
28.14	and t 11722 trench gradie	ding, Stringing out, cutting, Jointing esting of Quick Coupling pipe IS 2/86 and laying the same in nes to correct alignment and ents, jointed with coupler fitted ling cost of specials and all cartage lete.					
	11722						
	а	50.80mm o/d pipe lines laid complete	m	6.68	345.87	7.35	346.54
	b	63.50mm o/d pipe lines laid complete	m	6.85	449.69	7.54	450.38
	С	76.20mm o/d pipe lines laid complete	m	7.07	498.92	7.78	499.63
	d	101.60mm o/d pipe lines laid complete	m	8.24	656.91	9.06	657.73
	е	127.00mm o/d pipe lines laid	m	7.77	966.29	8.55	967.07
	f	complete 152.40mm o/d pipe lines laid	1111	1.11	900.29	0.55	907.07
		complete	m	10.56	1000.06	11.62	1001.12
	g	203.40mm o/d pipe lines laid					
		complete	m	14.67	1796.80	16.14	1798.27
	h	254.00mm o/d pipe lines laid	m	19.49	2856.26	21.44	2858.21
	i	complete 304.80mm o/d pipe lines laid	m	19.49	2000.20	∠1.44	2000.21
		complete	m	25.75	3829.18	28.33	3831.76
28.15	speci Engir	lying, fixing and jointing PVC als complete as desired by neer-in-Charge (for pipe lines nside habitation only)	m	5% Extra v	vill be taken f pipe in item	•	ctive i/d of

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Sr.		Description.	Unit	Plains		Sub-mou	ntainous
No.				Labour	Through	Labour	Through
				Rate	Rate	Rate	Rate
1		2	3	4	5	6	7
28.16	CONC	EALED IN WALL:Providing &					
		CPVC (Chlorinate Polyvinyl					
		de) FlowGuard CTS SDR 11 pipes					
		ming to IS 15778, for Hot & Cold					
		Supply including jointing of all					
		uard Plain & brass threaded					
		with FlowGuard Solvent Cement,					
		of joints, also cutting chases and					
	1	g good the same including testing its complete as per direction of					
		eer in Charge. (Chases rates as					
	_	SR item No 30.85 to be added)					
	po. 00	or nomine object to be added,					
		SDR -11 Pipe, 16mm o/d	m	38.91	141.04	42.80	144.93
	a b	SDR -11 Pipe, 16mm o/d	m	38.91	163.07	42.80	166.96
	С	SDR -11 Pipe, 25mm o/d	m	38.91	203.12	42.80	207.01
	d	SDR -11 Pipe,32mm o/d	m	38.91	277.22	42.80	281.11
	е	SDR -11 Pipe,40mm o/d	m	38.91	385.36	42.80	389.25
	f	SDR -11 Pipe,50mm o/d	m	38.91	601.64	42.80	605.53
28.17	1	RNAL / EXPOSED:Providing &					
	fixing	CPVC (Chlorinate Polyvinyl de) FlowGuard CTS SDR 11 pipes					
		ming to IS 15778 & SDR 11					
		upto 50mm, & Schd 40 pipes as					
		F 441 & CPVC Schd 80 fittings					
		50 mm for Hot & Cold Water					
	Supply	including jointing of all					
	FlowG	uard Plain & brass threaded					
	fittings	with FlowGuard Solvent Cement					
		of joints on walls, terrrace,					
	1	shafts, ringline on terrace with all					
		clamps complete as per direction					
	of Eng	ineer in Charge.					
	а	SDR -11 Pipe, 16mm o/d	m	38.91	111.86	42.80	115.74
	b	SDR -11 Pipe, 20mm o/d	m	38.91	127.60	42.80	131.50
	С	SDR -11 Pipe, 25mm o/d	m	38.91	156.20	42.80	160.09
	d	SDR -11 Pipe, 32mm o/d	m	38.91	209.13	42.80	213.02
	e	SDR -11 Pipe, 40mm o/d	m	38.91	286.37 440.86	42.80	290.26
	f	SDR -11 Pipe, 50mm o/d Schd 40 pipe, 62.5mm i/d	m m	38.91 49.98	1065.57	42.80 54.98	444.75 1070.57
	g h	Schd 40 pipe, 62.5mm i/d	m	49.98	1370.25	54.98	1375.25
	I	Schd 40 pipe , 100mm i/d	m	49.98	1926.68	54.98	1931.68
	j	Schd 40 pipe , 150mm i/d	m	49.98	3939.27	54.98	3944.27
28.18	Provid	ing, Stringing out, cutting, Jointing					
	and te	sting of C.I. Double Flanged pipes					
		casted flanged as per IS:7181,					
	Class-	B and laying the same in trenches					
	to	correct alignment and					
	_	nts,jointed with nut bolts and					
		insertion fitted complete including					
	all cart	.aye.					

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour	Through	Labour	Through
				Rate	Rate	Rate	Rate
1		2	3	4	5	6	7
	a	80mm i/d pipe lines laid complete	m	264.82	1722.81	291.30	1749.29
	b	100mm i/d pipe lines laid complete	m	339.62	2173.20	373.58	2207.16
	С	125mm i/d pipe lines laid complete	m	408.81	2806.38	449.69	2847.26
	d	150mm i/d pipe lines laid complete	m	492.63	3358.14	541.89	3407.40
	е	200mm i/d pipe lines laid complete	m	665.45	4784.53	732.00	4851.08
	f	250mm i/d pipe lines laid complete	m	879.43	6454.04	967.37	6541.98
	g	300mm i/d pipe lines laid complete	m	1094.23	8280.76	1203.65	8390.18
	h	350mm i/d pipe lines laid complete	m	1271.17	10611.45	1398.29	10738.57
	i	400mm i/d pipe lines laid complete	m	1447.13	12838.94	1591.84	12983.65
	j	450mm i/d pipe lines laid complete	m	1883.48	16332.89	2071.83	16521.24
	k	500mm i/d pipe lines laid complete	m	2181.14	19087.22	2399.25	19305.33
	I	600mm i/d pipe lines laid complete	m	2710.61	26017.58	2981.67	26288.64
28.19	and to with sclass-trench gradie	ding, Stringing out, cutting, Jointing esting of C.I. Double Flanged pipes screwed flanged as per IS:1536, LA and laying the same in nes to correct alignment and ents, jointed with nut bolts and r insertion fitted complete including trage.					
	а	80mm i/d pipe lines laid complete	m	264.82	1493.77	291.30	1520.25
	b	100mm i/d pipe lines laid complete	m	337.85	1779.84	371.64	1813.63
	С	125mm i/d pipe lines laid complete	m	408.81	2295.34	449.69	2336.22
	d	150mm i/d pipe lines laid complete	m	492.63	2806.46	541.89	2855.72
	е	200mm i/d pipe lines laid complete	m	665.45	4022.28	732.00	4088.83
	f	250mm i/d pipe lines laid complete	m	879.43	5369.16	967.37	5457.10
	g	300mm i/d pipe lines laid complete	m	1094.23	6860.95	1203.65	6970.37
	h	350mm i/d pipe lines laid complete	m	1271.17	8703.98	1398.29	8831.10

Sr.	Description.		Unit	Pla	ins	Sub-mountainous	
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1	:	2	3	4 4 4 7 4 2	5	6	7
	i 	400mm i/d pipe lines laid complete	m	1447.13	10681.51	1591.84	10826.22
	j	450mm i/d pipe lines laid complete	m	1883.48	13269.13	2071.83	13457.48
	k	500mm i/d pipe lines laid complete	m	2181.14	15631.88	2399.25	15849.99
	I	600mm i/d pipe lines laid complete	m	2710.61	20697.87	2981.67	20968.93
28.20	and to with s 2000, trench gradio rubbe	ding, Stringing out, cutting, Jointing esting of D.I. Double Flanged pipes screwed flanged as per IS:8329-Class-K9 and laying the same in nes to correct alignment and ents, jointed with nut bolts and er insertion joints fitted complete ling all cartage.					
	a	80mm i/d pipe lines laid complete	m	264.82	1800.40	291.30	1826.88
	b	100mm i/d pipe lines laid complete	m	339.62	1957.70	373.58	1991.66
	С	125mm i/d pipe lines laid complete	m	408.81	2556.49	449.69	2597.37
	d	150mm i/d pipe lines laid complete	m	492.63	2893.89	541.89	2943.15
	е	200mm i/d pipe lines laid complete	m	665.45	3764.92	732.00	3831.47
	f	250mm i/d pipe lines laid complete	m	879.43	5077.32	967.37	5165.26
	g	300mm i/d pipe lines laid complete	m	1094.23	6496.45	1203.65	6605.87
	h	350mm i/d pipe lines laid complete	m	1271.17	8052.57	1398.29	8179.69
	i	400mm i/d pipe lines laid complete	m	1447.13	9620.03	1591.84	9764.74
	j	450mm i/d pipe lines laid complete	m	1883.48	11633.81	2071.83	11822.16
	k	500mm i/d pipe lines laid complete	m	2181.14	12702.43	2399.25	12920.54
	I	600mm i/d pipe lines laid complete	m	2710.61	13233.07	2981.67	13504.13
28.21		ying and laying C.I. specials lete as desired by Engineer-inge conforming to ISI specifications					
	а	C.I. specials upto 300mm i/d	kg	2.36	53.06	2.60	53.30
	b	C.I. specials upto 300mm i/d	kg	2.36	65.14	2.60	65.38

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.		·		Labour	Through	Labour	Through
				Rate	Rate	Rate	Rate
1		2	3	4	5	6	7
28.22	Supply						
		als/fittings as per IS:9527-2000,					
		K-12 suitable for tyten joint with					
		al bitumen coating and inside					
	cemer	nt mortar lining, scaffolding, ss, Jim poles, tools and plants,					
		guys, etc. Complete.					
	Гороо,	gayo, oto. Complete.					
		D.L. are a sigle timbe 200 mars i/d	ka	2.36	104.99	2.60	105.23
	a b	D.I. specials upto 300mm i/d D.I. specials above 300mm i/d	kg kg	2.36	171.37	2.60	171.61
	ט	D.i. specials above 300mm //d	l kg	2.50	171.37	2.00	17 1.01
28.23	Provid	ling & fixing CPVC (Chlorinate					
		nyl Chloride) FlowGuard CTS					
	SDR 1	11 pipes conforming to IS 15778					
	& SDF	R 11 fittings upto 50mm, & Schd 40					
		as ASTM F 441 & CPVC Schd 80					
		above 50 mm for Hot & cold					
		supply including laying in ring					
		trenching, refilling (as per PWD					
	compl	ications) & testing of joints all ete as per manufacturers					
		ications and approved practices					
	эрссііі	ications and approved practices					
	а	SDR -11 Pipe, 16mm o/d	m	31.61	107.48	34.77	110.64
	b	SDR -11 Pipe, 20mm o/d	m	31.61	123.84	34.77	127.00
	С	SDR -11 Pipe, 25mm o/d	m	31.61	154.49	34.77	156.76
	d	SDR -11 Pipe, 32mm o/d SDR -11 Pipe, 40mm o/d	m	31.61 31.61	208.64 288.97	34.77 34.77	211.80 292.13
	e f	SDR -11 Pipe, 40mm o/d	m m	31.61	449.18	34.77	452.79
	g	Schd 40 pipe, 62.5mm i/d	m	40.86	1097.08	44.94	1101.16
	h	Schd 40pipe, 75mm i/d	m	40.86	1413.94	44.94	1418.02
	I	Schd 40 pipe , 100mm i/d	m	40.86	1992.63	44.94	1996.71
	j	Schd 40 pipe , 150mm i/d	m	40.86	4085.72	44.94	4089.80
28.24	Provid	ing & fixing sluice valves ISI					
	marke	•					
	flange						
		ng all carriage complete.					
A	Class	PN-1 as per ISI					
	а	80mm i/d Sluice Valves					
		Socketted or Flanged	each	159.54	2324.61	175.49	2340.56
	b	100mm i/d Sluice Valves					
		Socketted or Flanged	each	184.98	3028.64	203.48	3047.14
	С	125mm i/d Sluice Valves					
		Socketted or Flanged	each	Deleted a	as this size is	not in use n	owadays
	d	150mm i/d Sluice Valves					
		Socketted or Flanged	each	240.34	4703.23	264.37	4727.26
	е	200mm i/d Sluice Valves					
		Socketted or Flanged	each	298.48	7685.13	328.33	7714.98
	f	250mm i/d Sluice Valves					
		Socketted or Flanged	each	378.39	11981.90	416.23	12019.74
	g	300mm i/d Sluice Valves					
		Socketted or Flanged	each	540.92	14581.85	595.01	14635.94

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	h	350mm i/d Sluice Valves Socketted or Flanged	each	540.92	21396.33	595.01	21450.42
	İ	400mm i/d Sluice Valves Socketted or Flanged	each	644.16	37134.56	708.58	37198.98
	j	450mm i/d Sluice Valves Socketted or Flanged	each	669.77	65934.34	736.75	66001.32
	k	500mm i/d Sluice Valves Socketted or Flanged	each	690.95		760.05	
	Т	600mm i/d Sluice Valves Socketted or Flanged	each	856.19		941.81	
В		ial quality make such as sker or equivalent as approved ngineer-in-Charge.					
	а	80mm i/d Sluice Valves Socketted or Flanged	each	159.54	7965.02	175.49	7980.97
	b	100mm i/d Sluice Valves Socketted or Flanged	each	184.98	11978.45	203.48	11996.95
	С	125mm i/d Sluice Valves Socketted or Flanged	each	201.91	16524.63	222.10	16544.82
	d	150mm i/d Sluice Valves Socketted or Flanged	each	240.34	19606.98	264.37	19631.01
	е	200mm i/d Sluice Valves Socketted or Flanged	each	298.48	32676.15	328.33	32706.00
	f	250mm i/d Sluice Valves Socketted or Flanged	each	378.39	41486.16	416.23	41524.00
	g	300mm i/d Sluice Valves Socketted or Flanged	each	540.92	59262.21	595.01	59316.30
	h	350mm i/d Sluice Valves Socketted or Flanged	each	540.92	90740.44	595.01	90794.53
	i	400mm i/d Sluice Valves Socketted or Flanged	each	644.16	107891.91	708.58	107956.33
	j	450mm i/d Sluice Valves Socketted or Flanged	each	669.77	141651.23	736.75	141718.21
	k	500mm i/d Sluice Valves Socketted or Flanged	each	690.95	191038.80	760.05	191107.90
	I	600mm i/d Sluice Valves Socketted or Flanged	each	856.19		941.81	
28.25	with f	ding & fixing Fire Hydrants jointing flanged joint including all carriages lete.(without Fire Hydrant surface					
	а	Fire Hydrants SV type as per IS- 909	each	123.41	6537.38	135.75	6549.72
	b	Fire Hydrants Ordinary type as per IS	each	123.41	4271.61	135.75	4283.95

Sr.	•		Unit	Pla	Plains		Sub-mountainous	
No.		•		Labour Rate	Through Rate	Labour Rate	Through Rate	
1		2	3	4	5	6	7	
	IS-148	ling & fixing Single air valve as per 345 jointing with tyten joint ing all carriages complete.	each	430.53	4578.73	473.58	4621.78	
28.27	jointir	ding & fixing double air valve ng with tyten joint including all ges complete.	each	170.56	4387.42	187.62	4404.48	
	lines j	for fixing Non-return valves in pipe ointing with tyten joint including all ges complete.						
Α	Class seat	PN-1.6 as per ISI with rubber						
	а	80mm i/d Non-return valve	each	159.54	2373.82	175.49	2389.77	
	b	100mm i/d Non-return valve	each	184.98	3021.77	203.48	3040.27	
	С	125mm i/d Non-return valve	each	201.91	4237.96	222.10	4258.15	
	d	150mm i/d Non-return valve	each	240.34	4982.44	264.37	5006.47	
	е	200mm i/d Non-return valve	each	298.48	7972.36	328.33	8002.21	
	f	250mm i/d Non-return valve	each	378.39	13264.69	416.23	13302.53	
	g	300mm i/d Non-return valve	each	540.92	15798.27	595.01	15852.36	
	h	350mm i/d Non-return valve	each	540.92	41291.66	595.01	41345.75	
	i	400mm i/d Non-return valve	each	644.16	59802.59	708.58	59867.01	
	j	450mm i/d Non-return valve	each	669.77	83748.13	736.75	83815.11	
	k	500mm i/d Non-return valve	each	690.95	111373.98	760.05	111443.08	
В	seat	PN-1.6 as per ISI with gun metal						
	а	80mm i/d Non-return valve	each	159.54	4021.65	175.49	4037.60	
	b	100mm i/d Non-return valve	each	184.98	4974.00	203.48	4992.50	
	С	125mm i/d Non-return valve	each	201.91	6713.15	222.10	6733.34	
	d	150mm i/d Non-return valve	each	240.34	7907.35	264.37	7931.38	
	е	200mm i/d Non-return valve	each	298.48	14848.64	328.33	14878.49	
	f	250mm i/d Non-return valve	each	378.39	21971.90	416.23	22009.74	

Rate Rate	Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
1	No.							Through Rate
g 300mm i/d Non-return valve each 540.92 28840.20 595.01 28894.21 h 350mm i/d Non-return valve each 540.92 52888.30 595.01 52942.31 i 400mm i/d Non-return valve each 644.16 61013.29 708.58 61077.71 j 450mm i/d Non-return valve each 669.77 75348.75 736.75 75415.73 k 500mm i/d Non-return valve each 669.95 109711.27 760.05 109780.33 28.29 Providing, fixing and jointing Cast Iron surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. kg 2.35 53.85 2.59 54.00 28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.40 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 359.38 80.63 366.70	1		2	3				
h 350mm i/d Non-return valve each 540.92 52888.30 595.01 52942.33 i 400mm i/d Non-return valve each 644.16 61013.29 708.58 61077.7 j 450mm i/d Non-return valve each 669.77 75348.75 736.75 75415.7 k 500mm i/d Non-return valve each 669.95 109711.27 760.05 109780.3 28.29 Providing, fixing and jointing Cast Iron surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. 8		g	-		-			28894.29
i 400mm i/d Non-return valve								
j 450mm i/d Non-return valve each 669.77 75348.75 736.75 75415.73 k 500mm i/d Non-return valve each 690.95 109711.27 760.05 109780.33 28.29 Providing, fixing and jointing Cast Iron surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. 28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.71		h	350mm i/d Non-return valve	each	540.92	52888.30	595.01	52942.39
j 450mm i/d Non-return valve each 669.77 75348.75 736.75 75415.73 k 500mm i/d Non-return valve each 690.95 109711.27 760.05 109780.33 28.29 Providing, fixing and jointing Cast Iron surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. kg 2.35 53.85 2.59 54.00 28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.70								
R		i	400mm i/d Non-return valve	each	644.16	61013.29	708.58	61077.71
R			150 1/111		000 77	75040.75	700 75	75 44 5 70
28.29 Providing, fixing and jointing Cast Iron surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. 28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.48 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.44 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.56			450mm i/d Non-return valve	eacn	669.77	75348.75	/36./5	75415.73
28.29 Providing, fixing and jointing Cast Iron surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. 28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.48 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.44 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.56		l _e	500mm i/d Non return valvo	oach	600.05	100711 27	760.05	100780 37
Surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. kg 2.35 53.85 2.59 54.05		K	500mm /d Non-return valve	eacii	090.93	109711.27	700.03	109700.37
surface box for Sluice valve, Air valve, Fire hydrant etc. including all carriages complete. 8	28.29	Provid	ling, fixing and jointing Cast Iron					
complete. kg 2.35 53.85 2.59 54.09 28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.45 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7		surfac	e box for Sluice valve, Air valve,					
28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7								
28.30 Boring with 100 mm diametre casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7		compl	ete.	kg	2.35	53.85	2.59	54.09
pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth.								
except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested. a Upto 6 ms depth. m 199.02 218.92 b Beyond 6 ms and upto 12 ms depth. m 237.18 260.90 c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.42 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7	28.30	1 -	9					
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c Beyond 12 ms and upto 18 ms depth. m 277.08 304.79 28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. m 55.59 398.89 61.15 404.49 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. m 24.93 251.93 27.42 254.49 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7		b	Beyond 6 ms and upto 12 ms					
depth.			depth.	m	237.18		260.90	
28.31 Providing and placing in position filters of 40 mm diametre G.I. pipe with brass strainer of approved quality. 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. 28.36 Providing ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.70		С						
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40 mm diametre G.I. pipe with brass strainer of approved quality. 28.32 Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7								
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to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well. 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.75	20 22	Drovio	ling and fixing to filter and lowering					
well including cleaning and priming the tube well. 28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.70	20.32							
28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7			• • •					
28.33 Providing ferrule, drilling and tapping cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.76		tube v	vell.	m	24 93	251 93	27 42	254 42
cast iron pipe lines of all diametres and screwing in Ferrule and connections complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7					2 1100	201100		201112
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complete in all respect. a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7								
a 10mm i/d Ferrule medium each 64.02 270.00 70.42 276.40 b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7			<u> </u>					
b 15mm i/d Ferrule medium each 73.30 302.17 80.63 309.50 c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7			·					
c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7		а	10mm i/d Ferrule medium	each	64.02	270.00	70.42	276.40
c 15mm i/d Ferrule heavy duty each 73.30 359.38 80.63 366.7		h	15mm i/d Forrula madium		70.00	200.47	00.00	200.50
		D	romm wa remale mediam	eacn	/3.30	302.17	80.63	309.50
		С	15mm i/d Ferrule heavy duty	each	73 30	350 38	80 E3	366 71
d 20mm i/d Ferrule heavy duty each 151.84 552.36 167.02 567.54				Cacii	7 3.30	553.50	00.03	300.7 1
		d	20mm i/d Ferrule heavy duty	each	151.84	552.36	167.02	567.54
e 25mm i/d Ferrule heavy duty each 205.68 1063.93 226.25 1084.50		е	25mm i/d Ferrule heavy duty	each	205.68	1063.93	226.25	1084.50

Sr.		Description.	Description. Unit Plains		Sub-mountainous		
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
28.34	testin cost socke	ding and laying, jointing fixing and g G.I. Pipe lines B-Class including of specials such as tees, bends ets, elbows etc. testing, cutting ding Inside building complete.	,				
	а	15mm i/d	m	45.14	151.56	49.65	156.07
	b	20mm i/d	m	50.75	186.93	55.83	192.01
	С	25mm i/d	m	60.62	253.33	66.68	259.39
	d	32mm i/d	m	69.69	311.49	76.66	318.46
	е	40mm i/d	m	71.82	352.30	79.00	359.48
	f	50mm i/d	m	85.38	449.16	93.92	457.70
	testin G.I. socke buildi	ding, laying, jointing, fixing and g H.D.P.E. / PVC Pipe lines, with specials such as tees, bends ets, elbows etc. testing insideing complete.	,				
Α	-	P.E. / PVC pipe 10 Kgf/m		24.22	- 1.00	07.40	
	a	20mm i/d	m	31.93	71.98	35.12	75.17
	b	25mm i/d	m	39.33	107.99	43.26	111.92
	С	32mm i/d	m	46.14	149.13	50.75	153.74
	d	40mm i/d	m	47.74	205.09	52.51	209.86
	е	50mm i/d	m	57.91	301.08	63.70	306.87
В	H.D.F	P.E. / PVC pipe 6 Kgf/m					
	а	32mm i/d	m	46.14	114.80	50.75	119.41
	b	40mm i/d	m	47.74	152.16	52.51	156.93
	С	50mm i/d	m	57.91	219.55	63.70	225.34
С	H.D.F	P.E. / PVC pipe 4 Kgf/m 40mm i/d	m	47.74	124.98	52.51	129.75
	b	50mm i/d	m	57.91	173.77	63.70	179.56

aying, jointing, fixing, he Lines B- Class, Specials such as tees, elbow etc., cutting, ting in trenches in the	m	Labour Rate	Through Rate 5	Labour Rate 6	Through Rate 7
aying, jointing, fixing, be Lines B- Class, Specials such as tees, elbow etc., cutting,		4	5		
aying, jointing, fixing, be Lines B- Class, Specials such as tees, elbow etc., cutting,				6	7
	m	13.00	404.04		
			104.64	14.30	105.94
	m	16.31	134.13	17.94	135.76
	m	20.40	187.97	22.44	190.01
	m	30.67	241.44	33.74	244.51
	m	31.85	276.65	35.04	279.84
	m	33.02	351.13	36.32	354.43
	m	33.02	433.61	36.32	436.91
	m	35.38	557.72	38.92	561.26
	m	41.60	800.89	45.76	805.05
ng, jointing, fixing and PVC Pipe Lines as per es, bends, sockets, , testing including cost trenches in the ground					
pe 10 Kgf/m					
	m	10.87	44.51	11.96	45.60
	m	13.60	71.27	14.96	72.63
	m	20.45	106.96	22.50	109.01
	m	21.23	153.40	23.35	155.52
	m	22.02	226.28	24.22	228.48
pe 6 Kgf/m					
	m	20.45	78.12	22.50	80.17
	m	24.22	400.01		111.06
t	PVC Pipe Lines as per es, bends, sockets, testing including cost renches in the ground	ng, jointing, fixing and PVC Pipe Lines as per es, bends, sockets, testing including cost trenches in the ground m m m m m m m m m m m m m	ng, jointing, fixing and PVC Pipe Lines as per es, bends, sockets, testing including cost trenches in the ground m 10.87 m 13.60 m 20.45 m 22.02 ce 6 Kgf/m m 20.45	mg, jointing, fixing and PVC Pipe Lines as per es, bends, sockets, testing including cost trenches in the ground m 10.87 44.51 m 13.60 71.27 m 20.45 106.96 m 21.23 153.40 m 22.02 226.28 m 20.45 78.12	mg, jointing, fixing and PVC Pipe Lines as per es, bends, sockets, testing including cost trenches in the ground m 10.87 44.51 11.96 m 13.60 71.27 14.96 m 20.45 106.96 22.50 m 21.23 153.40 23.35 m 22.02 226.28 24.22 m 20.45 78.12 22.50

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	С	50mm i/d	m	22.02	157.79	24.22	159.99
С	H.D.P	P.E. / PVC pipe 4 Kgf/m					
	а	40mm i/d	m	21.23	86.11	23.35	88.23
	b	50mm i/d	m	22.02	119.35	24.22	121.55
28.38	Alumi Comp to IS - black cold v tempe specia (engir insert tees, etc. w includ per di Conce	ding and fixing Polyethelene- nium-Polyethelene (PE-AL-PE) posite Pressure Pipes conforming - 15450 U.V. stabilised with carbon having thermal stability for hot & water supply, capable to withstand erature up to 80°C including all al fittings of composite material neering plastic blend and brass is wherever required) e.g. elbows, reducers, couplers & connectors with clamps at 1.00 m spacing. This les the costs of cutting chases and ling testing of joints complete as rection of the engineer in charge. ealed work including cutting chases haking goo/d the wall etc.					
	а	1216 (16 mm o/d) pipe	m	38.91	213.14	42.80	217.03
	b	1620 (20 mm o/d) pipe	m	38.91	253.19	42.80	257.08
	С	2025 (25 mm o/d) pipe	m	38.91	317.27	42.80	321.16
	d	2532 (32 mm o/d) pipe	m	38.91	417.40	42.80	421.29
	е	3240 (40 mm o/d) pipe	m	38.91	539.56	42.80	543.45
	f	4050 (50 mm o/d) pipe	m	38.91	709.77	42.80	713.66

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Sr.	Description.		Unit	Plains		Sub-mountainous	
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
28.39	Comp to IS - carbon hot & withstainclud mater brass elbow conne and to directi	ling and fixing Polyethelene- nium-Polyethelene (PE-AL-PE) osite Pressure Pipes conforming 15450 - 2004 U.V. stabilised with n black having thermal stability for cold water supply, capable to and temperature up to 80° C ing all special fittings of composite ial (engineering plastic blend and inserts wherever required) e.g. s ,tees ,reducers, couplers & actors etc. with trenching, refilling esting of joints complete as per on of the engineer in charge. hal work					
	а	1216 (16 mm o/d) pipe	m	31.61	161.03	34.77	164.19
	b	1620 (20 mm o/d) pipe	m	31.61	190.79	34.77	193.95
	С	2025 (25 mm o/d) pipe	m	31.61	238.39	34.77	241.55
	d	2532 (32 mm o/d) pipe	m	31.61	312.77	34.77	315.93
	е	3240 (40 mm o/d) pipe	m	35.15	407.06	38.67	410.58
	f	4050 (50 mm o/d) pipe	m	35.15	533.51	38.67	537.03
28.40 A	propyl SDR 7 fusion for ho PP-R polypr the pil This ii and n testing directii (Conc	ling and fixing 3 layer PP-R (Poly ene Random copolymer) pipes 7.4 U V stabilized & anti - microbial welded, having thermal stability t & cold water supply including all plain & brass threaded opylene random fittings i/c fixing be with clamps at 1.00 m spacing. Includes the cost of cutting chases making goo/d the same including goof joints complete as per on of Engineer in Chajge. ealed work including cutting s and making goo/d the walls etc.).					
	а	PN - 16 Pipe, 16mm o/d	m	38.91	102.99	42.80	106.88
	b	PN - 16 Pipe, 20mm o/d	m	38.91	135.03	42.80	138.92
	С	PN - 16 Pipe, 25mm o/d	m	38.91	189.10	42.80	192.99

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	d	PN - 16 Pipe, 32mm o/d	m	38.91	283.23	42.80	287.12
	е	PN - 16 Pipe, 40mm o/d	m	38.91	427.41	42.80	431.30
	f	PN - 16 Pipe, 50mm o/d	m	38.91	605.64	42.80	609.53
28.40 B	propyl SDR 7 fusion for ho PP-R polypr trench compl Charg	ling and fixing 3 layer PP-R (Poly ene Random copolymer) pipes 7.4 U V stabilized & anti - microbial welded, having thermal stability t & cold water supply including all plain & brass threaded opylene random fittings i/c ling .refilling & testing of joints ete as per direction of Engineer in e. all work					
	а	PN - 16 Pipe, 16mm o/d	m	31.61	79.21	34.77	82.37
	b	PN - 16 Pipe, 20mm o/d	m	31.61	103.02	34.77	106.18
	С	PN - 16 Pipe, 25mm o/d	m	31.61	143.18	34.77	146.34
	d	PN - 16 Pipe, 32mm o/d	m	31.61	213.10	34.77	216.26
	е	PN - 16 Pipe, 40mm o/d	m	31.61	320.21	34.77	323.37
	f	PN - 16 Pipe, 50mm o/d	m	31.61	452.61	34.77	455.77
28.41		ling, fixing and jointing Union ings in G.I. Pipe lines.					
	а	15mm i/d G.I. Union	each	7.06	72.29	7.77	73.00
	b	20mm i/d G.I. Union	each	9.32	121.46	10.25	122.39
	С	25mm i/d G.I. Union	each	9.32	152.36	10.25	153.29
	d	32mm i/d G.I. Union	each	11.29	165.78	12.42	166.91
	е	40mm i/d G.I. Union	each	11.29	184.08	12.42	185.21
	f	50mm i/d G.I. Union	each	11.29	231.00	12.42	232.13
	g	65mm i/d G.I. Union	each	14.12	430.66	15.53	432.07
	h	80mm i/d G.I. Union	each	14.12	638.92	15.53	640.33

Sr.		Description.	Unit	Pla	ins	Sub-mountainous		
No.				Labour Rate	Through Rate	Labour Rate	Through Rate	
1		2	3	4	5	6	7	
<u>'</u>	ļ	<u>-</u>		<u>, , , , , , , , , , , , , , , , , , , </u>			,	
	i	100mm i/d G.I. Union	each	14.12	918.14	15.53	919.55	
28.42		ding and placing in position hand						
	1.	of approved quality for 40 mm						
		etre G.I. pipe complete with all sories.		40.05	649.83	F2 06	CE 4.74	
	acces	solies.	each	49.05	049.03	53.96	654.74	
28.43	Provid	ding water connection with grooved						
		er and service coupler in Quick						
		ing pipe line complete in all						
	respe							
	а	In 50.80mm outside diametre	aaab	E4 00	600.00	FC 24	605.33	
	b	pipe line In 63.50mm outside diametre	each	51.22	680.20	56.34	685.32	
		pipe line	each	51.22	788.29	56.34	793.41	
	С	In 76.20mm outside diametre						
	<u> </u>	pipe line	each	64.02	848.18	70.42	854.58	
	d	In 101.60mm outside diametre pipe line	each	64.02	1017.37	70.42	1023.77	
	е	In 152.40mm outside diametre	Gacii	04.02	1017.37	70.42	1023.77	
		pipe line	each	64.02	1437.61	70.42	1444.01	
	peet wheel groun	/ding, fixing and jointing gun-metal valves (Heavy Pattern) with hand s, on G.I. Pipe lines laid in the d or inside buildings including all ges complete.						
	а	15mm i/d Gun Metal peet valve						
	"	heavy pattern.	each	12.83	393.89	14.11	395.17	
				.2.00	000.00		333	
	b	20mm i/d Gun Metal peet valve						
		heavy pattern.	each	15.68	534.06	17.25	535.63	
	1	107 111 0 1111						
	С	25mm i/d Gun Metal peet valve heavy pattern.		47.05	047.54	10.40	040.04	
		neavy pattern.	each	17.65	817.54	19.42	819.31	
	d	32mm i/d Gun Metal peet valve						
		heavy pattern.	each	20.17	1163.36	22.19	1165.38	
	е	40mm i/d Gun Metal peet valve						
		heavy pattern.	each	23.53	1540.91	25.88	1543.26	
	f	50mm i/d Gun Metal peet valve			I	Т		
	'	heavy pattern.	each	31.37	2381.82	34.51	2384.96	
		, , ,	Cacii	51.57	2001.02	J -1 .J I	2004.30	
	g	65mm i/d Gun Metal peet valve						
		heavy pattern.	each	40.33	4080.96	44.36	4084.99	

Sr.		Description.	Unit	Pla	ins	Sub-moui	ntainous
No.		·		Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	h	80mm i/d Gun Metal peet valve					
		heavy pattern.	each	47.05	5590.19	51.76	5594.90
		100mm :/d Cum Matal maat value					
	i	100mm i/d Gun Metal peet valve heavy pattern.					
		neavy pattern.	each	47.05	11153.92	51.76	11158.63
28.45	Provid	ding, fixing & jointing screw down					
20.40		cocks of gun-metal or hard brass					
		I.Pipe lines laid in the ground or					
		buildings including all carriages					
	comp	lete.					
	а	15mm i/d Screw down stop cock					
		of gun metal or hard brass.					
			each	12.83	221.10	14.11	222.38
	b	20mm i/d Screw down stop cock					
		of gun metal or hard brass.					
		gan motal of many process	each	15.68	313.21	17.25	314.78
	С	25mm i/d Screw down stop cock					
	of gun metal or hard brass.		ooob	16.61	462.00	10.07	46.4 FG
			each	10.01	462.90	18.27	464.56
28.46	Blank						
28.47	Blank				I		
20.47	Dialik						
28.48	Blank				T		
20.40	Diarik						
00.40	N A m I sina	an annualism with the eviction O.I.					
28.49		ng connection with the existing G.I. h main up to 40mm size including					
		g and threading pipe etc. complete					
		ding cost of tee and ling screw, but					
		ling all carriages complete.					
			each	183.94	238.86	202.33	257.25
28.50	io Providing, fixing & jointing water meter i				T		
	G.I. pipe line including cutting an						
	threading pipe and making long screen						
	etc. complete including cost of G.I. Jar						
	nut complete.						
	0 45mm size						
	а	15mm size	each	192.07	907.28	211.28	926.49
	h	20mm sizo		400.0=	4000.05	044.00	4045.50
	b	20mm size	each	192.07	1296.35	211.28	1315.56

Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	С	25mm size	each	192.07	1686.57	211.28	1705.78
28.51	for Pe	ling & fixing Cast Iron suface box eet Valve, Stop Cock including all ges complete.		7.80	59.30	8.58	60.08
28.52	specif	ding and filling sand grading as per ications or fine grade around the is sizes of G.I. pipes in external		26.30	265.36	28.93	267.99
28.53	makin pipe and d alignm Engin Size d	g out water from the trenches for ig new connections in fully charged lines including cleaning trimming dressing the trenches to correct nent and grade as required by the eer-in-charge. of the main with which connection ie made.					
	а	Upto 200mm i/d	each connecti on.	832.64		915.90	
	b	Exceeding 200mm i/d but not exceeding 300mm i/d	each connecti on.	1040.81		1144.89	
	С	Exceeding 300mm i/d but not exceeding 450mm i/d	each connecti on.	1248.97		1373.87	
	d	Exceeding 450mm i/d but not exceeding 600mm i/d	each connecti on.	1561.23		1717.35	
28.54	Blank						
28.55	Disinfecting water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.						
	а	80mm i/d C.I. pipe.	m	3.66	3.82	4.03	4.19
	b	100mm i/d C.I. pipe.	m	4.80	5.03	5.28	5.51

d 150mm i/d C.I. pipe. m 7.10 7.63 7.8 e 200mm i/d C.I. pipe. m 9.39 10.30 10.33 f 250mm i/d C.I. pipe. m 11.69 13.13 12.8 g 300mm i/d C.I. pipe. m 12.83 14.89 14.1 h 350mm i/d C.I. pipe. m 13.97 16.77 15.3 i 400mm i/d C.I. pipe. m 15.12 18.80 16.6 j 450mm i/d C.I. pipe. m 16.25 20.90 17.8 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.6 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete.	Sr.		Description.	Unit	Pla	ins	Sub-mountainous		
C 125mm i/d C.I. pipe. m 5.96 6.31 6.5i	No.							Through Rate	
d 150mm i/d C.I. pipe. m 7.10 7.63 7.8 e 200mm i/d C.I. pipe. m 9.39 10.30 10.33 f 250mm i/d C.I. pipe. m 11.69 13.13 12.86 g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13.97 16.77 15.33 i 400mm i/d C.I. pipe. m 15.12 18.80 16.66 j 450mm i/d C.I. pipe. m 15.12 18.80 16.66 j 450mm i/d C.I. pipe. m 17.42 23.16 19.16 k 500mm i/d C.I. pipe. m 17.42 23.16 19.16 I 600mm i/d C.I. pipe. m 19.70 27.95 21.66 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.98 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-	1		2	3	4	5	6	7	
d 150mm i/d C.I. pipe. m 7.10 7.63 7.8 e 200mm i/d C.I. pipe. m 9.39 10.30 10.33 f 250mm i/d C.I. pipe. m 11.69 13.13 12.86 g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13.97 16.77 15.31 i 400mm i/d C.I. pipe. m 15.12 18.80 16.66 j 450mm i/d C.I. pipe. m 15.12 18.80 16.66 j 450mm i/d C.I. pipe. m 17.42 23.16 19.11 I 600mm i/d C.I. pipe. m 17.42 23.16 19.11 I 600mm i/d C.I. pipe. m 19.70 27.95 21.66 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.98 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-			100						
e 200mm i/d C.I. pipe. m 9,39 10,30 10,30 10,31 f 250mm i/d C.I. pipe. m 11.69 13,13 12.81 g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13,97 16,77 15,37 i 400mm i/d C.I. pipe. m 15,12 18.80 16,60 j 450mm i/d C.I. pipe. m 16,25 20,90 17,81 k 500mm i/d C.I. pipe. m 16,25 20,90 17,81 l 16,00mm i/d C.I. pipe. m 17,42 23,16 19,11 l 16,00mm i/d C.I. pipe. m 19,70 27,95 21,60 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42,68 799,65 46,91 150mm internal diametre m 42,68 799,65 46,91 160,00 170,41 186,61 70,41 186,		С	125mm i/d C.I. pipe.	m	5.96	6.31	6.56	6.91	
e 200mm i/d C.I. pipe. m 9,39 10,30 10,30 10,31 f 250mm i/d C.I. pipe. m 11.69 13,13 12.81 g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13,97 16,77 15,37 i 400mm i/d C.I. pipe. m 15,12 18.80 16,60 j 450mm i/d C.I. pipe. m 16,25 20,90 17,81 k 500mm i/d C.I. pipe. m 16,25 20,90 17,81 l 16,00mm i/d C.I. pipe. m 17,42 23,16 19,11 l 16,00mm i/d C.I. pipe. m 19,70 27,95 21,60 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42,68 799,65 46,91 150mm internal diametre m 42,68 799,65 46,91 160,00 170,41 186,61 70,41 186,		٨	150mm i/d C L nino		7.40	7.00	7.04	0.04	
f 250mm i/d C.I. pipe. m 11.69 13.13 12.80 g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13.97 16.77 15.33 i 400mm i/d C.I. pipe. m 15.12 18.80 16.60 j 450mm i/d C.I. pipe. m 16.25 20.90 17.80 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-		u	190mm /d C.i. pipe.	m	7.10	7.63	7.81	8.34	
f 250mm i/d C.I. pipe. m 11.69 13.13 12.80 g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13.97 16.77 15.33 i 400mm i/d C.I. pipe. m 15.12 18.80 16.60 j 450mm i/d C.I. pipe. m 16.25 20.90 17.80 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-		е	200mm i/d C.L. nine	m	0.30	10.30	10.33	11.24	
g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13.97 16.77 15.31 i 400mm i/d C.I. pipe. m 15.12 18.80 16.60 j 450mm i/d C.I. pipe. m 16.25 20.90 17.81 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 l 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.40 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-			Zoomin wa o.i. pipo.	111	9.59	10.50	10.55	11.24	
g 300mm i/d C.I. pipe. m 12.83 14.89 14.11 h 350mm i/d C.I. pipe. m 13.97 16.77 15.31 i 400mm i/d C.I. pipe. m 15.12 18.80 16.60 j 450mm i/d C.I. pipe. m 16.25 20.90 17.81 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 l 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.40 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-		f	250mm i/d C.I. pipe.	m	11.69	13.13	12.86	14.30	
h 350mm i/d C.I. pipe. m 13.97 16.77 15.31 i 400mm i/d C.I. pipe. m 15.12 18.80 16.63 j 450mm i/d C.I. pipe. m 16.25 20.90 17.83 k 500mm i/d C.I. pipe. m 17.42 23.16 19.16 l 600mm i/d C.I. pipe. m 19.70 27.95 21.65 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.95 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-					11100	10.10	12.00	1 1.00	
h 350mm i/d C.I. pipe. m 13.97 16.77 15.33 i 400mm i/d C.I. pipe. m 15.12 18.80 16.63 j 450mm i/d C.I. pipe. m 16.25 20.90 17.80 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.63 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-		g	300mm i/d C.I. pipe.	m	12.83	14.89	14.11	16.17	
i 400mm i/d C.I. pipe. m 15.12 18.80 16.60 j 450mm i/d C.I. pipe. m 16.25 20.90 17.80 k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.40 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-									
j 450mm i/d C.I. pipe. m 16.25 20.90 17.8i k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.6i 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.9i b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		h	350mm i/d C.I. pipe.	m	13.97	16.77	15.37	18.17	
j 450mm i/d C.I. pipe. m 16.25 20.90 17.8i k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.6i 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.9i b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or									
k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-		i	400mm i/d C.I. pipe.	m	15.12	18.80	16.63	20.31	
k 500mm i/d C.I. pipe. m 17.42 23.16 19.10 I 600mm i/d C.I. pipe. m 19.70 27.95 21.60 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.90 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:-									
I 600mm i/d C.I. pipe. m 19.70 27.95 21.6 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.99 b 150mm internal diametre m 64.02 1186.61 70.43 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer : Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		j	450mm i/d C.I. pipe.	m	16.25	20.90	17.88	22.53	
I 600mm i/d C.I. pipe. m 19.70 27.95 21.6 28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.99 b 150mm internal diametre m 64.02 1186.61 70.43 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer : Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or			1500 1/101						
28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.99 b 150mm internal diametre m 64.02 1186.61 70.43 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		k	500mm i/d C.I. pipe.	m	17.42	23.16	19.16	24.90	
28.56 Providing, laying, fixing and testing M.S. pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.99 b 150mm internal diametre m 64.02 1186.61 70.43 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or			600mm i/d C L ning		40.70	07.05	04.07	22.22	
pipe lines and specials tees, bends, sockets, elbows etc. in trenches in the ground cutting, threading and testing etc. as per IS-1239 complete. a 100mm internal diametre m 42.68 799.65 46.99 b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer : Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		1	600mm /a C.i. pipe.	m	19.70	27.95	21.67	29.92	
b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or	28.56	pipe socke groun	lines and specials tees, bends, ets, elbows etc. in trenches in the d cutting, threading and testing etc.						
b 150mm internal diametre m 64.02 1186.61 70.42 28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or			100 mayor into well diamentes				1		
28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		а	Toomm Internal diametre	m	42.68	799.65	46.95	803.92	
28.57 Providing and placing in horizontal layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer: Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or			AFO				1		
layers filtering mei/d screened, washed and cleaned as described below:- (a) Top layer : Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		D	150mm internal diametre	m	64.02	1186.61	70.42	1193.01	
screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or	28.57	layers filtering mei/d screened, washed and cleaned as described							
screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or		7.3	T				1		
		(a)	screened, cleaned and washed and graded (effective size 0.2 to 0.4mm with uniformity coefficient 2.00 to 3.00) from Pathankot or						
cum 323.95 610.88 356.38				cum	323.95	610.88	356.35	643.28	

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Sr. Description.	Unit	Pla	ins	Sub-mountainous		
No.		Labour Rate	Through Rate	Labour Rate	Through Rate	
(b) Second Layer : Coursed sand screened, cleaned and washed and graded from 3mm to 6mm (from Pathankot or approved equivalent quarry).		349.98	5 751.54	6 384.98	7 786.54	
(c) Third Layer : Bajri screened, cleaned and washed and graded from 6mm to 20mm (from Pathankot or approved equivalent quarry).		193.84	835.07	213.22	854.45	
(d) Fourth Layer : Bajri (Coursed) screened, cleaned and washed and graded from 20mm to 25mm (from Pathankot or approved equivalent quarry).						
	cum	193.84	816.41	213.22	835.79	
(e) Bottom Layer : Broken stone, screened, cleaned and washed and graded from 50mm to 75mm (from Pathankot or approved equivalent quarry).		193.84	802.09	213.22	821.47	
Painting G.I. Pipes and Specials with synthetic enamel Paint in all shades as per I.S.I. specification on existing or new work, two coats paints including cleaning rubbing surface, etc.						
a 15mm & 20mm i/d G.I. Pipe	m	1.01	3.32	1.11	3.42	
b 25mm & 32mm i/d G.I. Pipe	m	1.31	4.32	1.44	4.45	
c 40mm & 50mm i/d G.I. Pipe	m	2.05	6.75	2.26	6.96	
Repainting G.I. Pipes and Specials with synthetic enamel Paint in all shades as per I.S.I. specification on existing work, one coats paints including cleaning rubbing surface, etc.						

Sr.		Description.	Unit	Pla	ins	Sub-mountainous		
No.				Labour Rate	Through Rate	Labour Rate	Through Rate	
1		2	3	4	5	6	7	
	a	15mm & 20mm i/d G.I. Pipe	m	0.64	1.67	0.70	1.73	
				0.01	1101	0.7 0		
	b	25mm & 32mm i/d G.I. Pipe	m	0.83	2.18	0.91	2.26	
	С	40mm & 50mm i/d G.I. Pipe	m	1.30	3.41	1.43	3.54	
28.60	Painting G.I. Pipes and Specials with Aluminium Paint Paint in all shades as per I.S.I. specification on existing or new work, two coats paints including cleaning rubbing surface, etc.							
	а	15mm & 20mm i/d G.I. Pipe	m	1.23	2.67	1.35	2.79	
	b	25mm & 32mm i/d G.I. Pipe	m	1.60	3.48	1.76	3.64	
	С	40mm & 50mm i/d G.I. Pipe	m	2.50	5.43	2.75	5.68	
28.61	Repainting G.I. Pipes and Specials with Aluminium Paint Paint in all shades as per I.S.I. specification on existing work, one coats paints including cleaning rubbing surface, etc.							
	а	15mm & 20mm i/d G.I. Pipe	m	0.75	1.44	0.83	1.52	
	b	25mm & 32mm i/d G.I. Pipe	m	0.97	1.87	1.07	1.97	
	С	40mm & 50mm i/d G.I. Pipe	m	1.52	2.92	1.67	3.07	
28.62	B.B. in goo/d and fi	g holes upto 23cm square thorugh n mud walls for pipes, and making including repointing, replastering nishing according to existing finish required.						
	а	Through wall 11.43 cm thick	each	32.01		35.21		
	b	Through wall 22.86 cm thick	each	49.85		54.84		
	С	Through wall 34.29 cm thick	each	63.77		70.15		

Sr.		Description.	Unit	Plai	ins	Sub-mou	ntainous
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	d	Through wall 45.72 cm thick	each	83.85		92.24	
	е	Through wall 57.15 cm thick	each	102.85		113.14	
	f	Through wall 68.58 cm thick	each	122.12		134.33	
28.63	B.B. i wall i goo/d and f	ng holes upto 23cm square thorugh in cement walls or stone masonary in cement for pipes, and making including repointing, replastering inishing according to existing finish e required.					
	а	Through wall 11.43 cm thick	each	68.06		74.87	
	b	Through wall 22.86 cm thick	each	95.31		104.84	
	С	Through wall 34.29 cm thick	each	123.45		135.80	
	d	Through wall 45.72 cm thick	each	155.87		171.46	
	е	Through wall 57.15 cm thick	each	168.02		184.82	
	f	Through wall 68.58 cm thick	each	195.94		215.53	
28.64	pipes with and replas	ng holes upto 23cm square for in flooring and roofs of bricks, tiles lime concrete or cement concrete making good including repointing, stering and colour or white washing e required.					
	а	Through floor or roof 7.5cm thick	each	35.05		38.56	
	b	Through floor or roof 11.5cm thick	each	57.29		63.02	
	С	Through floor or roof 15.00cm thick	each	69.02		75.92	
	d	Through floor or roof 19.00cm thick	each	75.94		83.53	
	е	Through floor or roof 22.50cm thick	each	77.16		84.88	

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Sr.		Description.	Unit	Pla	ins	Sub-mou	ntainous
No.	2 Cutting holes upto 23cm square			Labour Rate	Through Rate	Labour Rate	Through Rate
28.65	Cuttin		3	4	5	6	7
	pipes	in floor and roofs of cement					
	concre	ete, reinforced concrete or rced brick work and making goo/d	l				
	includ						
		ing bitumen and colour or white					
	wasni	ng where required.					
	а	Through floor or roof 7.5cm thick					
		Third gir noon or room allow	each	32.95		36.25	
	b	Through floor or roof 11.5cm	I	44.00		45.40	
		thick	each	41.03		45.13	
	С	Through floor or roof 15.00cm thick	each	62.52		68.77	
				02.02		00.77	
	d	Through floor or roof 19.00cm thick	each	62.93		69.22	
	е	Through floor or roof 22.50cm					
		thick	each	64.15		70.57	
28.66	Disma	antling lead Caulked Joints of cast					
	iron	Socketted Pipes, Valves and					
		als by heating the Joints including ast of Labour, Fuel and tools, etc.,					
		ting the lead taken out from the					
	1.	and ride back the same to the					
	Engin	eer-in-charge.					
	(a)	50mm i/d of pipe, valve or special	l	04.00		04.44	
			each	21.92		24.11	
	(b)	65mm i/d of pipe, valve or special					
			each	21.92		24.11	
	(c)	80mm i/d of pipe, valve or special					
			each	34.80		38.28	
	(d)	100mm i/d of pipe, valve or					
		special	each	34.80		38.28	
	(e)	125mm i/d of pipe, valve or					
		special	each	47.53		52.28	
	(f)	150mm i/d of pipe, valve or					
		special	each	59.83		65.81	
	(g)	175mm i/d of pipe, valve or					
		special	each	70.42		77.46	

Sr.		D	esci	ripti	on.			Unit	Pla	ins	Sub-mou	ntainous
No.									Labour Rate	Rate Rate		Through Rate
1				2				3	4	5	6	7
	(h)	200mm	i/d	of	pipe.	valve	or					
	(,	special			F-F-,			each	85.12		93.63	
									33112			
	(i)	225mm	i/d	of	pipe,	valve	or					
		special						each	92.40		101.64	
	(j)	250mm	i/d	of	pipe.	valve	or					
	"	special			F-F-,			each	110.65		121.72	
	(k)	300mm special	i/d	of	pipe,	valve	or					
		Special						each	143.05		157.36	
	1 (1)	050	:/-1	- 4								
	(1)	350mm special	I/a	Οī	pipe,	vaive	or	each	169.75		186.73	
		opeoidi						Cacii	100.70		100.73	
	(m)	375mm	i/d	of	pipe,	valve	or					
		special						each	182.03		200.23	
	(n)	400mm	i/d	of	pipe,	valve	or					
		special						each	187.77		206.55	
	(0)	150mm	i/d	of	nino	volvo	or					
	(o)	450mm special	ı/u	OI	pipe,	vaive	Oi	each	270.85		297.94	
		<u> </u>						Cacii	210.00		201.04	
	(p)	500mm	i/d	of	pipe,	valve	or					
		special						each	304.93		335.42	
	(a)	FOEmm	:/പ	- f	nina	volvo	0.4					
	(q)	525mm special	ı/u	OI	pipe,	vaive	Oi	each	326.60		359.26	
		11, 11						Guorr	020.00		000.20	
	(r)	550mm	i/d	of	pipe,	valve	or					
		special						each	355.63		391.19	
	(a)	0000000	:/-1	- 4		l a						
	(s)	600mm special	I/a	OI	pipe,	vaive	or	each	391.92		431.11	
		op o o.o						eacm	391.92		431.11	
28.67		antling flai										
		, Valves a										
		of bolts, l eer-in-cha			ı wasn	iers to	tne					
		23 0.10	g o .									
	а	50mm,										
		internal or specia		ietre	o pi	pe, var	ves	each	7.86		8.65	
		15. SP 55K						Cacii	7.00		0.00	

Sr.		Description.	Unit	Pla	ins	Sub-mountainous	
No.		•		Labour Rate	Through Rate	Labour Rate	Through Rate
1	b	2 125mm, 150mm, 175mm, 200mm, 225mm and 250mm internal diametre of pipe, valves or special.	3 222b	16 17	5	17.70	7
		or special.	each	16.17		17.79	
	С	300mm, 350mm and 375mm internal diametre of pipe, valves or special.	each	49.05		53.96	
	d	400mm and 450mm internal diametre of pipe, valves or special.	each	54.44		59.88	
	е	500mm and 525mm internal diametre of pipe, valves or special.	each	61.32		67.45	
	f	550mm and 600mm internal diametre of pipe, valves or special.	each	75.12		82.63	
28.68	speciand S	out dismantled Cast Iron etted or Flanged Pipes valves and, als etc. out side from the trenches Stacking and ride back as desired e Engineeer-in-charge.					
	а	50mm internal diametre of pipe.	m	4.77		5.25	
	b	65mm internal diametre of pipe.	m	5.01		5.51	
	С	80mm internal diametre of pipe.	m	5.97		6.57	
	d	100mm internal diametre of pipe.	m	7.31		8.04	
	е	125mm internal diametre of pipe.	m	7.31		8.04	
	f	150mm internal diametre of pipe.	m	8.10		8.91	
	g	175mm internal diametre of pipe.	m	10.01		11.01	

Sr.		Description.	Unit	Pla	ins	Sub-mountainous		
No.				Labour Rate	Through Rate	Labour Rate	Through Rate	
1	h	2	3	4	5	6	7	
	h	200mm internal diametre of pipe.						
			m	10.80		11.88		
	i	225mm internal diametre of pipe.						
			m	12.71		13.98		
			m	12.71		13.90		
	j	250mm internal diametre of pipe.						
			m	15.24		16.76		
	k	300mm internal diametre of pipe.						
						40.00		
			m	18.11		19.92		
	I	350mm internal diametre of pipe.						
			m	21.42		23.56		
						20.00		
	m	375mm internal diametre of pipe.						
			m	24.74		27.21		
	n	400mm internal diametre of pipe.						
			m	28.57		31.43		
	0	450mm internal diametre of pipe.						
			m	29.74		32.71		
	р	500mm internal diametre of pipe.						
			m	34.97		38.47		
	q	525mm internal diametre of pipe.						
			m	39.02		42.92		
	r	550mm internal diametre of pipe.						
	'	occinin internal diametre of pipe.						
			m	39.02		42.92		
	s	600mm internal diametre of pipe.						
		pipe.	m	53.30		58.63		
			111	J3.30		50.03		
28.69		antling sluice valves socketted or						
	flanged including ride back as desired by							
	Engineer-in Charge.							
	а	50mm internal diametre of						
		valves	each	49.91		54.90		

Sr.		D	escriptior	١.		Unit	Pla	ins	Sub-mountainous	
No.							Labour Rate	Through Rate	Labour Rate	Through Rate
1			2			3	4	5	6	7
	b	65mm valves	internal	diametre	of	each	53.44		58.78	
	С	80mm valves	internal	diametre	of	each	56.97		62.67	
	d	100mm valves	internal	diametre	of	each	54.75		60.23	
	е	125mm valves	internal	diametre	of	each	61.81		67.99	
	f	150mm valves	internal	diametre	of	each	64.68		71.15	
	g	175mm valves.	internal	diametre	of	each	73.30		80.63	
	h	200mm valves.	internal	diametre	of	each	79.70		87.67	
	i	225mm valves	internal	diametre	of	each	79.70		87.67	
	j	250mm valves	internal	diametre	of	each	79.70		87.67	
	k	300mm valves	internal	diametre	of	each	79.70		87.67	
	I	350mm valves	internal	diametre	of	each	79.70		87.67	
	m	375mm valves.	internal	diametre	of	each	79.70		87.67	
	n	400mm valves.	internal	diametre	of	each	79.70		87.67	
	0	450mm valves.	internal	diametre	of	each	79.70		87.67	
	р	500mm valves.	internal	diametre	of	each	79.70		87.67	
	q	525mm valves	internal	diametre	of	each	79.70		87.67	
	r	550mm valves.	internal	diametre	of	each	79.70		87.67	
	S	600mm valves.	internal	diametre	of	each	79.70		87.67	

Sr.	Description.		Unit	Plains		Sub-mountainous	
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
28.70	includ	2 antling fire hydrants of all sizes, ling dismantling the joints including back as desired by Engineer-inge.	3	4	5	6	7
			each	54.27		59.70	
28.71	Dismantling single or double air valves, all sizes, including dismantling joints including ride back as desired by Engineer-in-Charge.						
			each	49.05		53.96	
28.72	sluice	antling cast Iron surface boxes for valves and fire hydrants including back as desired by Engineer-inge.					
	Onarg	,,,,	each	30.90		33.99	
28.73		antling cast Iron single air valve					
	surface boxes including ride back as desired by Engineer-in-Charge.						
		ara ay anginoon in onange.	each	32.83		36.11	
28.74	Dismantling cast Iron double air valve surface boxes including ride back as desired by Engineer-in-Charge.						
		,	each	82.06		90.27	
28.75	Dismantling, disjointing, removal of G.I. pipe lines, specials, valves and fittings including ride back as desired by Engineer-in-Charge.						
	a	15mm internal diametre pipe line.	m	9.91		10.90	
	b	20mm internal diametre pipe line.	m	11.72		12.89	
	С	25mm internal diametre pipe line.	m	15.17		16.69	
	d	32mm internal diametre pipe line.	m	19.82		21.80	
	е	40mm internal diametre pipe line.	m	22.64		24.90	
	f	50mm internal diametre pipe line.	m	22.64		24.90	

Sr.	Description.		Unit	Plains		Sub-mountainous	
No.				Labour Rate	Through Rate	Labour Rate	Through Rate
1		2	3	4	5	6	7
	g	65mm internal diametre pipe line.	m	24.52		26.97	
	h	80mm internal diametre pipe line.	m	26.57		29.23	
	i	100mm internal diametre pipe line.	m	30.66		33.73	
28.76	Construction of Gravel Pit outside the Pump Chamber.		each	3065.96	9045.71	3372.56	9352.31
28.77	Construction of V-Notch haudi.		each	3524.83	10245.95	3877.31	10598.43
28.78	Construction of masonary Sluice Valve Chamber complete in all respects as per standard drawing.						
	а	Size 0.6 m. x 0.6 m.	each	536.09	2868.98	589.70	2922.59
	b	Size 0.9 m. x 0.9 m.	each	767.39	3983.56	844.13	4060.30

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