LAYING RATE OF DIFFERENT SIZES OF G.I.PIPES

SI. No	Sizes	Present	Over Ground	50cm depth	100cm depth
1	20mm	136.00	51.00	105.00	142.00
2	25mm	158.00	89.00	127.00	166.00
3	32mm	173.00	102.00	142.00	183.00
4	40mm	189.00	115.00	158.00	201.00
5	50mm	218.00	148.00	192.00	235.00
6	65mm	242.00	174.00	220.00	264.00
7	80mm	282.00	222.00	266.00	315.00
8	100mm	379.00	324.00	381.00	420.00
9	125mm	456.00	409.00	469.00	510.00
10	150mm	532.00	497.00	556.00	597.00

Note : 20% of the pipe cost is included for GI Specials.

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
1	G.I Pipes and fitting for 20mm dia Fitting, fixing G.I pipes complete with all G.I fittings to over ground in all types of soil. 20mm dia G.I pipe Details of cost for 10m length. Material i) 20mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage Local handling of pipe 1.57x10=15.7 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I)	M Kg	2 15.70	105.08	210.16 36.11
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 	Each Each Each	0.10 0.20 0.75 Sub-Total: Say:	300 240 170	30.00 48.00 127.50 451.77 56.47 508.24 50.82 51.00
	Rupees (Seventy) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

(LALRAMMAWIA)	(C. LALREMSIAMA)	(R. LALFANLIANA)
Superintending Engineer (I),PHED	Chief Engineer (M&I), PHED	Engineer-in-Chief, PHED

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
2	G.I Pipes and fitting for 25mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	25mm dia G.I pipe				
	Details of cost for 10m length.				
	Material				
	i) 25mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	м	2	158.75	317.50
	Local handling of pipe				
	2.43x10=24.3 Kg	Kg	24.3	2.30	55.89
	iii) Laying and fitting	Ũ			
	a) Plumber/fitter- (Sk-I)	Each	0.15	300	45.00
	b) Asst.plumber/fitter-(Sk-II)	Each	0.25	240	60.00
	c) Coolie-(U/Sk)	Each	1.85	170	314.50
			Sub-Total:		792.89
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				00.11
	Total of v, vi, vii & vii = 12.50%				99.11 802.00
	Total cost of 10m				892.00 89.20
	Cost per meter		Say:		89.20 89.00
	Dunces (Fighty nine) only				
	Rupees (Eighty nine) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
3	G.I Pipes and fitting for 32mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	<u>32mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	Material				
	i) 32mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	201.85	403.70
	Local handling of pipe				
	3.13x10=31.3 Kg	Kg	31.3	2.30	71.99
	iii) Laying and fitting	U			
	a) Plumber/fitter- (Sk-I)	Each	0.15	300	45.00
	b) Asst.plumber/fitter-(Sk-II)	Each	0.25	240	60.00
	c) Coolie-(U/Sk)	Each	1.90	170	323.00
			Sub-Total:		903.60
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				112.05
	Total of v, vi, vii & vii = 12.50%				112.95
	Total cost of 10m				1016.55 101.59
	Cost per meter		Say:		101.59 102.00
			Sdy:		102.00
	Rupees (One hundred and two) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
4	G.I Pipes and fitting for 40mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	40mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u>				
	i) 40mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	232.22	464.44
	Local handling of pipe				
	3.60x10=36 Kg	Kg	36	2.3	82.80
	iii) Laying and fitting				
	a) Plumber/fitter- (Sk-I)	Each	0.20	300	60.00
	b) Asst.plumber/fitter-(Sk-II)	Each	0.30	240	72.00
	c) Coolie-(U/Sk)	Each	2.00	170	340.00
			Sub-Total:		1019.24
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				127.40
	Total of v, vi, vii & vii = 12.50%				1146.64
	Total cost of 10m				1140.04
	Cost per meter		Say:		115.00
	Rupees (One hundred and fifteen) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
5	G.I Pipes and fitting for 50mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	50mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u>				
	i) 50mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	326.95	653.90
	Local handling of pipe				
	5.10x10=51 Kg	Kg	51	2.3	117.30
	iii) Laying and fitting	Ũ			
	a) Plumber/fitter- (Sk-I)	Each	0.30	300	90.00
	b) Asst.plumber/fitter-(Sk-II)	Each	0.40	240	96.00
	c) Coolie-(U/Sk)	Each	2.10	170	357.00
			Sub-Total:		1314.20
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				164.27
	Total of v, vi, vii & vii = 12.50%				164.27
	Total cost of 10m				1478.47
	Cost per meter		Say:		147.84 148.00
	Rupees (One hundred and forty eight) only				
	hapees tone number and forty eight/ only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

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SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
6	G.I Pipes and fitting for 65mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	<u>65mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	Material				
	i) 65mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	419.53	839.06
	Local handling of pipe				
	6.54x10=65.4 Kg	Kg	65.4	2.30	150.42
	iii) Laying and fitting	Ũ			
	a) Plumber/fitter- (Sk-I)	Each	0.35	300	105.00
	b) Asst.plumber/fitter-(Sk-II)	Each	0.40	240	96.00
	c) Coolie-(U/Sk)	Each	2.10	170	357.00
			Sub-Total:		1547.48
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				193.43
	Total of v, vi, vii & vii = 12.50%				
	Total cost of 10m				1740.91 174.09
	Cost per meter		Say:		174.09 174.00
	Rupees (One hundred and seventy seven) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
7	G.I Pipes and fitting for 80mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	80mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u>				
	i) 80mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	543.97	1087.94
	Local handling of pipe				
	8.53x10=85.3 Kg	Kg	85.3	2.3	196.19
	iii) Laying and fitting				
	a) Plumber/fitter- (Sk-I)	Each	0.50	300	150.00
	b) Asst.plumber/fitter-(Sk-II)	Each	0.70	240	168.00
	c) Coolie-(U/Sk)	Each	2.20	170	374.00
			Sub-Total:		1976.13
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				247.01
	Total of v, vi, vii & vii = 12.50%				2223.14
	Total cost of 10m				222.31
	Cost per meter		Say:		222.00
	Rupees (Two hundred and twenty two) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
8	G.I Pipes and fitting for 100mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	<u>100mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	<u>Material</u>				
	i) 100mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	806.11	1612.22
	Local handling of pipe				
	12.50x10=125 Kg	Kg	125	2.30	287.50
	iii) Laying and fitting	_			
	a) Plumber/fitter- (Sk-I)	Each	1.00	300	300.00
	b) Asst.plumber/fitter-(Sk-II)	Each	1.20	240	288.00
	c) Coolie-(U/Sk)	Each	2.30	170	391.00
			Sub-Total:		2878.72
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				359.84
	Total of v, vi, vii & vii = 12.50%				3238.56
	Total cost of 10m				323.85
	Cost per meter		Say:		323.85 324.00
	Rupees (Three hundred and twenty four) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

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SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
9	G.I Pipes and fitting for 125mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	125mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u>				
	i) 125mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	1045.46	2090.92
	Local handling of pipe				
	16.40x10=164 Kg	Kg	164	2.30	377.20
	iii) Laying and fittinga) Plumber/fitter- (Sk-I)				
	b) Asst.plumber/fitter-(Sk-II)	Each	1.40	300	420.00
	c) Coolie-(U/Sk)	Each	1.50	240	360.00
		Each	2.30	170	391.00
			Sub-Total:		3639.12
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				454.89
	Total of v, vi, vii & vii = 12.50%				4094.01
	Total cost of 10m				409.40
	Cost per meter		Say:		409.00
	Rupees (Four hundred and nine) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(LALRAMMAWIA)(C. LALREMSIAMA)(R. LALFAISuperintending Engineer (I),PHEDChief Engineer (M&I), PHEDEngineer

SI.	Description	Unit	Qnty	Rate	Cost
No					
1	2	3	4	5	6
10	G.I Pipes and fitting for 150mm dia				
	Fitting, fixing G.I pipes complete with all G.I fittings to over				
	ground in all types of soil.				
	150mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u>				
	i) 150mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage	М	2	1270.41	2540.82
	Local handling of pipe				
	19.50x10=195 Kg iii) Laying and fitting	Kg	195	2.30	448.50
	a) Plumber/fitter- (Sk-I)				
	b) Asst.plumber/fitter-(Sk-II)	Each	1.85	300	555.00
	c) Coolie-(U/Sk)	Each	2.00	240	480.00
		Each	2.30	170	391.00
			Sub-Total:		4415.32
	v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2%				
	vi) Add for sundries including contingencies @ 3%				
	vii) Add for water charges and electricity @ 1.5%				
	vii) Add for overhead @6%				551.91
	Total of v, vi, vii & vii = 12.50%				4967.23
	Total cost of 10m				496.72
	Cost per meter		Say:		497.00
	Rupees (Four hundred and ninety seven) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

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SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	2	1	-	6
1	2 G.I Pipes and fitting for 20mm dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe	3	4	5	6
	should be added in the estimate) 20mm dia G.I pipe Details of cost for 10m length. Material i) 20mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage	Μ	2	105.08	210.16
	Local handling of pipe 1.57x10=15.7 Kg iii) Laying and fitting	Kg Each	15.70 0.10	2.30 300	36.11 30.00
	 a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling 	Each	0.20	240	48.00
	 a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk) 	Each Each Each Each	0.40 0.80 0.60 1.75 Sub-Total:	190 170 170 170	76.00 136.00 102.00 297.5 935.77
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		116.97 1052.74 105.27 105.00
	Rupees (Ninety six) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

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Approved by:

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(C. LALREMSIAMA)

SI.	Description	Unit	Qnty	Rate	Cost
No	2				6
1	2 C L Dinos and fitting for 25mm dia	3	4	5	6
2	G.I Pipes and fitting for 25mm dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	25mm dia G.I pipe				
	Details of cost for 10m length.				
	Material	м	2	158.75	317.50
	i) 25mm dia G.I pipe 10m.		2	130.75	517.50
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage				
	Local handling of pipe	Kg	24.3	2.30	55.89
	2.43x10=24.3 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling	Each Each	0.15 0.25	300 240	45.00 60.00
	a) Excavator- (S/Sk)	Each	0.45	190	85.5
	b) Breaking- (U/Sk)	Each Each	0.82 0.66	170 170	139.4 112.2
	c) Belldar-(U/Sk)	Each	1.85	170	314.50
	d) Coolie-(U/Sk)	Lach	Sub-Total:	170	1129.99
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		141.24 1271.23 127.12 127.00
	Rupees (One hundred and twenty seven) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	2	1	<u>с</u>	6
1 3	2 <u>G.I Pipes and fitting for 32mm dia</u> Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and dimetion of functions.	3	4	5	6
	 direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate) <u>32mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 32mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage 	М	2	201.85	403.70
	Local handling of pipe 3.13x10=31.3 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I)	Kg Each	31.3 0.15	2.30 300	71.99 45.00
	 b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) 	Each Each	0.25	240 190	60.00 85.50
	 b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk) 	Each Each Each	0.9 0.73 1.90 Sub-Total:	170 170 170	153.00 124.10 323.00 1266.29
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m 				158.28 1424.57 142.45
	Cost per meter Rupees (One hundred and forty two) only		Say:		142.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	3	4	5	6
4	G.I Pipes and fitting for 40mm dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	 <u>40mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 40mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage Local handling of pipe 	М	2	232.22	464.44
	3.60x10=36 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Kg Each Each Each Each Each Each	36 0.20 0.30 0.45 0.95 0.8 2.00 Sub-Total:	2.30 300 240 190 170 170 170	82.80 60.00 72.00 85.50 161.50 136.00 340.00 1402.24
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter Rupees (One hundred and fifty eight) only 		Say:		175.28 1577.52 157.75 158.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

SI.	Description	Unit	Qnty.	Rate	Cost
No 1	2	3	4	5	6
5	G.I Pipes and fitting for 50mm dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its	3	4	5	0
	original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate) 50mm dia G.1 pipe Details of cost for 10m length.				
	 <u>Material</u> i) 50mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage Local handling of pipe 	Μ	2	326.95	653.90
	5.10x10=51 Kg iii) Laying and fitting	Kg Each	51	2.30 300	117.30 90.00
	 a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) 	Each	0.40	240	96.00
	 iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk) 	Each Each Each Each	0.45 0.95 0.83 2.10 Sub-Total:	190 170 170 170	85.50 161.50 141.10 357.00 1702.30
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m 				212.78 1915.08 191.50
	Cost per meter Rupees (One hundred and ninety two) only		Say:		192.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

SI.	Description	Unit	Qnty.	Rate	Cost
No 1	2	3	4	5	6
6	G.I Pipes and fitting for 65 dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	 <u>65mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 65mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage 	М	2	419.53	839.06
	Local handling of pipe 6.54x10=65.4 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Kg Each Each Each Each Each Each	65.4 0.35 0.50 0.45 0.93 0.83 2.10 Sub-Total:	2.30 300 240 190 170 170 170	150.42 105.00 120.00 85.50 158.10 141.10 357.00 1956.18
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter Rupees (Two hundred and twenty) only 		Say:		244.52 2200.7 220.07 220.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(LALRAMMAWIA) Superintending Engineer (I), PHED Chief Engineer (M&I), PHED Engineer-in-Chief, PHED

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty.	Rate	Cost
No 1	2	3	4	5	6
7	G.I Pipes and fitting for 80 dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe		7		0
	should be added in the estimate) <u>80mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 80mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage	М	2	543.97	1087.94
	Local handling of pipe 8.53x10=85.3 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Kg Each Each Each Each Each Each	85.3 0.50 0.70 0.45 0.95 0.85 2.20 Sub-Total:	2.30 300 240 190 170 170 170	196.19 150.00 168.00 85.50 161.50 144.50 374.00 2367.63
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter Rupees (Three hundred and sixty six) only 		Say:		295.95 2663.58 266.38 266.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(LALRAMMAWIA) Superintending Engineer (I), PHED Chief Engineer (M&I), PHED Engineer-in-Chief, PHED

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty.	Rate	Cost
No 1	2	3	4	5	6
8	G.I Pipes and fitting for 100 dia	3	4	5	0
0	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	100mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u>	м	2	806.11	1612.22
	i) 100mm dia G.I pipe 10m.		-	000111	1012.22
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage				
	Local handling of pipe	Kg	125.00	2.30	287.50
	12.50x10=125 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II)	Each Each	1.00 1.20	300 240	300.00 288.00
	iv) Trenching and Refilling	Each	0.5	190	95.00
	a) Excavator- (S/Sk)	Each	1.1	170	187.00
	b) Breaking- (U/Sk)	Each	1.35	170	229.50
	c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Each	2.30	170	391.00
	u) coole-(0/3k)		Sub-Total:		3390.22
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m 				423.77 3813.99 381.39
	Cost per meter		Say:		381.00
	Rupees (Three hundred and eighty one) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty.	Rate	Cost
No	2	2		-	6
1	2 G.I Pipes and fitting for 125 dia	3	4	5	6
5	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	<u>125mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	Material	М	2	1045.46	2090.92
	 i) 125mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m 				
	ii) Carriage				
	Local handling of pipe	14 s	164	2.20	277.20
	16.40x10=164 Kg	Kg	164	2.30	377.20
	iii) Laying and fitting	Each	1.40	300	420.00
	a) Plumber/fitter- (Sk-I)	Each	1.50	240	360.00
	b) Asst.plumber/fitter-(Sk-II)	20011	1.00	2.10	500100
	iv) Trenching and Refilling	Each	0.6	190	114.00
	a) Excavator- (S/Sk)	Each	1.1	170	187.00
	b) Breaking- (U/Sk)	Each	1.35	170	229.50
	c) Belldar-(U/Sk)	Each	2.30	170	391.00
	d) Coolie-(U/Sk)		Sub-Total:		4169.62
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		521.20 4690.82 469.08 469.00
	Rupees (Four hundred and sixty nine) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty.	Rate	Cost
No	2	3	4	F	6
1 10	2 <u>G.I Pipes and fitting for 150 dia</u>	3	4	5	6
10	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 50cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	<u>150mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	Material	М	2	1270.41	2540.82
	i) 150mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage Local handling of pipe				
	19.50x10=195 Kg	Kg	195	2.30	448.50
	iii) Laying and fitting	Fash	1.05	200	
	a) Plumber/fitter- (Sk-I)	Each Each	1.85 2.00	300 240	555.00 480.00
	b) Asst.plumber/fitter-(Sk-II)	Each	2.00	240	460.00
	iv) Trenching and Refilling	Each	0.6	190	114.00
	a) Excavator- (S/Sk)	Each	1.1	170	187.00
	b) Breaking- (U/Sk)	Each	1.35	170	229.50
	c) Belldar-(U/Sk)	Each	2.30	170	391.00
	d) Coolie-(U/Sk)		Sub-Total:		4945.82
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m 				618.22 5564.04 556.40
	Cost per meter		Say:		556.40 556.00
	Rupees (Five hundred and fifty six) only		Suy.		230.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	3	4	5	6
1	G.I Pipes and fitting for 20mm dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	 <u>20mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 20mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage Local bandling of pipe 	М	2	105.08	210.16
	Local handling of pipe 1.57x10=15.7 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Kg Each Each Each Each Each Each	15.70 0.10 0.20 0.80 1.60 1.25 1.75 Sub-Total:	2.30 300 240 190 170 170 170	36.11 30.00 48.00 152.00 272.00 212.50 297.50 1258.27
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter Rupees (One hundred and forty two) only 		Say:		157.28 1415.55 141.55 142.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	3	4	5	6
2	G.I Pipes and fitting for 25mm dia	5	4	5	0
2	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	25mm dia G.I pipe				
	Details of cost for 10m length. Material				
	i) 25mm dia G.I pipe 10m.	М	2	158.75	317.50
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage				
	Local handling of pipe	Kg	24.3	2.30	55.89
	2.43x10=24.3 Kg	U			
	iii) Laying and fitting	Each	0.15	300	45.00
	a) Plumber/fitter- (Sk-I)	Each	0.25	240	60.00
	 b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling 				
	a) Excavator- (S/Sk)	Each	0.90	190	171.00
	b) Breaking- (U/Sk)	Each	1.65	170	280.50
	c) Belldar-(U/Sk)	Each	1.35	170	229.50
	d) Coolie-(U/Sk)	Each	1.85	170	314.50
			Sub-Total:		1473.89
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% 				
	Total of v, vi, vii & vii = 12.50%				184.23
	Total cost of 10m				1658.12
	Cost per meter		_		165.81
			Say:		166.00
	Rupees (One hundred and sixty six) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	3	4	5	6
3	G.I Pipes and fitting for 32mm dia	5	4	5	0
5	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	<u>32mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	Material	м	2	201.85	403.70
	i) 32mm dia G.I pipe 10m.	101	2	201.05	403.70
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage				
	Local handling of pipe	Kg	31.3	2.30	71.99
	3.13x10=31.3 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling	Each Each	0.15 0.25	300 240	45.00 60.00
	a) Excavator- (S/Sk)	Each	0.90	190	171.00
	b) Breaking- (U/Sk)	Each	1.80	170	306.00
	c) Belldar-(U/Sk)	Each	1.45 1.90	170	246.50
	d) Coolie-(U/Sk)	Each	Sub-Total:	170	323.00 1627.19
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		203.39 1830.58 183.05 183.00
	Rupees (One hundred and eighty three) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty	Rate	Cost
No 1	2	3	4	5	6
4	G.I Pipes and fitting for 40mm dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	 <u>40mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 40mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage 	м	2	232.22	464.44
	Local handling of pipe 3.60x10=36 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Kg Each Each Each Each Each Each	36 0.20 0.30 0.90 1.90 1.60 2.00 Sub-Total:	2.30 300 240 190 170 170 170	82.80 60.00 72.00 171.00 323.00 272.00 340.00 1785.24
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter Rupees (Two hundred and one) only 		Say:		223.15 2008.39 200.83 201.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

(C. LALREMSIAMA)

SI.	Description	Unit	Qnty.	Rate	Cost
No	-				
1	2 G.I Pipes and fitting for 50mm dia	3	4	5	6
5	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	50mm dia G.I pipe				
	Details of cost for 10m length.				
	Material	м	2	326.95	653.90
	i) 50mm dia G.I pipe 10m.		-	520.55	033.50
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage				
	Local handling of pipe 5.10x10=51 Kg	Kg	51	2.30	117.30
	 iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk) 	Each Each Each Each Each Each	0.30 0.40 0.90 1.90 1.65 2.10 Sub-Total:	300 240 190 170 170 170	90.00 96.00 171.00 323.00 280.50 357.00 2088.70
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		261.08 2349.78 234.97 235.00
	Rupees (Two hundred and thirty five) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty.	Rate	Cost
No 1	2	3	4	5	6
6	G.I Pipes and fitting for 65 dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	 <u>65mm dia G.I pipe</u> Details of cost for 10m length. <u>Material</u> i) 65mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage 	М	2	419.53	839.06
	Local handling of pipe 6.54x10=65.4 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Kg Each Each Each Each Each Each	65.4 0.35 0.50 0.90 1.90 1.65 2.10 Sub-Total:	2.30 300 240 190 170 170 170	150.42 105.00 120.00 171.00 323.00 280.50 357.00 2345.98
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter Rupees (Two hundred and sixty four) only 		Say:		293.24 2639.22 263.92 264.00

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty.	Rate	Cost
No 1	2	3	4	5	6
7	G.I Pipes and fitting for 80 dia	5	4	5	0
	Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	80mm dia G.I pipe				
	Details of cost for 10m length.				
	<u>Material</u> i) 80mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m	М	2	543.97	1087.94
	ii) Carriage				
	Local handling of pipe 8.53x10=85.3 Kg	Kg	102.36	2.30	235.43
	iii) Laying and fittinga) Plumber/fitter- (Sk-I)b) Asst.plumber/fitter-(Sk-II)	Each Each	0.50 0.70	300 240	150.00 168.00
	iv) Trenching and Refilling	Each	0.90	190	171.0
	a) Excavator- (S/Sk)	Each	1.90	170	323.00
	b) Breaking- (U/Sk) c) Belldar-(U/Sk)	Each	1.70	170	289.00
	d) Coolie-(U/Sk)	Each	2.20 Sub-Total:	170	374.00 2798.37
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% 				
	vii) Add for overhead @6%				349.79
	Total of v, vi, vii & vii = 12.50%				3148.16
	Total cost of 10m				314.82
	Cost per meter		Say:		315.00
	Rupees (Three hundred and eleven) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

Prepared by:

Reviewed by:

Approved by:

SI.	Description	Unit	Qnty.	Rate	Cost
No	2				
1 8	2 C L Dinos and fitting for 100 dia	3	4	5	6
0	G.I Pipes and fitting for 100 dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	100mm dia G.I pipe				
	Details of cost for 10m length.				
	Material	м	2	806.11	1612.22
	i) 100mm dia G.I pipe 10m.		-	000.11	1012.22
	Add @ 20% for fittings and wastage. i.e 2m				
	ii) Carriage				
	Local handling of pipe	Kg	125.00	2.30	287.50
	12.50x10=125 Kg iii) Laying and fitting a) Plumber/fitter- (Sk-I) b) Asst.plumber/fitter-(Sk-II) iv) Trenching and Refilling a) Excavator- (S/Sk)	Each Each Each Each Each	1.00 1.20 1.00 2.20	300 240 190 170	300.00 288.00 190.00 374.00
	b) Breaking- (U/Sk)	Each	1.70	170	289.00
	c) Belldar-(U/Sk) d) Coolie-(U/Sk)	Each	2.30 Sub-Total:	170	391.00 3731.72
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m 				466.46 4198.18 419.81
	Cost per meter		Say:		420.00
	Rupees (Four hundred and twenty) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

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SI.	Description	Unit	Qnty.	Rate	Cost
No					
1	2	3	4	5	6
9	G.I Pipes and fitting for 125 dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	 125mm dia G.I pipe Details of cost for 10m length. Material i) 125mm dia G.I pipe 10m. Add @ 20% for fittings and wastage. i.e 2m ii) Carriage Local handling of pipe 16.40x10=164 Kg iii) Laying and fitting 	M Kg	2	1045.46 2.30	2090.92 377.20
	a) Plumber/fitter- (Sk-I)b) Asst.plumber/fitter-(Sk-II)	Each Each	1.40 1.50	300 240	420.00 360.00
	 iv) Trenching and Refilling a) Excavator- (S/Sk) b) Breaking- (U/Sk) c) Belldar-(U/Sk) d) Coolie-(U/Sk) 	Each Each Each Each	1.20 2.20 1.70 2.30 Sub-Total:	190 170 170 170	228.00 374.00 289.00 391.00 4530.12
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		566.26 5096.38 509.63 510.00
	Rupees (Five hundred and ten) only				

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

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(C. LALREMSIAMA)

SI.	Description	Unit	Qnty.	Rate	Cost
No					-
1	2 C I Direct and fitting for 150 die	3	4	5	6
10	G.I Pipes and fitting for 150 dia Fitting, fixing G.I pipes complete with all G.I fittings including cutting threading, jointing and laying in trenches to a minimum depth of 100cm below ground level in all types of soil including trimmings, dressing, leveling in gradient, refilling of trenches in 20cm layers watering and ramming, removing surplus earth and brining back to its original position etc. all complete as per design and direction of Engineer-in-Chief (latest issue rate of pipe should be added in the estimate)				
	<u>150mm dia G.I pipe</u>				
	Details of cost for 10m length.				
	Material	м	2	1270.41	2540.82
	i) 150mm dia G.I pipe 10m.				
	Add @ 20% for fittings and wastage. i.e 2m ii) Carriage				
	Local handling of pipe				
	19.50x10=195 Kg	Kg	195	2.30	448.50
	iii) Laying and fitting	Each	1.85	300	555.00
	a) Plumber/fitter- (Sk-I)	Each	2.00	240	480.00
	b) Asst.plumber/fitter-(Sk-II)	Luch	2.00	240	400.00
	iv) Trenching and Refilling	Each	1.20	190	228.00
	a) Excavator- (S/Sk)	Each	2.20	170	374.00
	b) Breaking- (U/Sk)	Each	1.70	170	289.00
	c) Belldar-(U/Sk)	Each	2.30	170	391.00
	d) Coolie-(U/Sk)		Sub-Total:		5306.32
	 v) Add for lead, jute, point, cement, sand,gut,oil etc @ 2% vi) Add for sundries including contingencies @ 3% vii) Add for water charges and electricity @ 1.5% vii) Add for overhead @6% Total of v, vi, vii & vii = 12.50% Total cost of 10m Cost per meter 		Say:		663.29 5969.61 596.96 597.00
	Rupees (Five hundred and ninety seven) only		-		

NB: Due to difficult of working in hilly terrain 5% extra labourers have been provided in the analysis of rate

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Approved by:

(C. LALREMSIAMA)