# SUB HEAD: 2.0 EARTH WORK

#### **BUILDING WORK**

	<u>Z.</u>	<u>0 Earth V</u>			D-4-	Cost
ltem	Description	Unit	Qty	Rate	Rate Code.	Rs.
No.	1		- In slamb	h but ovcor		
.1-	Earth work in surface excavation not eas 10 sqm on plan including disposal of	xeeeaing 30	om in dept	50 m and l	ft unto 1.5 m dis	posed soil
		or excavated	earm upto	Ju m and i	it apto nom are	
.1.1	to be levelled and neatly dressed : All Kinds of soil Details of cost for 10	n				
	sqm and average depth 15cm	U				
	Labour:					
	Beldar	per day	7.20	306.00	(0114)	2203.20
	Coolies	per day	6.00	318.00	(0115)	1908.00
						4111.20
	Add for water charges @ 1 %				-	41.11
		otal				4152.31
	Add GST 12% on "X"( multiplying factor					583.40
	0.1405)					4735.71
		otal				710.36
	Add tor contractor's profit and over-head	ıs				, 10.00
	@ 15% on "Y"				-	4862.67
	Cost of 100 sqm					48.63
	Add labour cess @ 1%					4911.30
	Rate including labour cess		Say Rs	4911.30	per 100 sqm	4577.00
2	Earth work in rough excavation,banking	a excessed				
2.1	and rolling every 3rd and top-most laye embankments for roads, flood banks, i depressions, lead upto 50 m and lift up All Kinds of soil	marginal ban	r roller of m iks and gui	de banks o	onnes and dress r filling up groun	ing up in d
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift up All Kinds of soil  Details of cost for 10 cum	marginal ban	r roller of maks and gui	de banks o	onnes and dress r filling up groun	ing up in d
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift up All Kinds of soil Details of cost for 10 cum Labour:	marginal ban to 1.5 m.	ks and gui	de banks o	r filling up groun	d
.2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift up All Kinds of soil Details of cost for 10 cum Labour: Beldar	marginal ban to 1.5 m. per day	ks and gui	de banks o 306.00	r filling up groun (0114)	d 1805.40
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies	marginal ban to 1.5 m. per day per day	5.90 3.60	306.00 318.00	r filling up groun (0114) (0115)	1805.40 1144.80
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cumtabour: Beldar Coolies Bhishti	per day per day per day	5.90 3.60 0.40	306.00 318.00 332.00	(0114) (0115) (0101)	1805.40 1144.80 132.80
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar	per day	5.90 3.60	306.00 318.00	r filling up groun (0114) (0115)	1805.40 1144.80
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq	per day	5.90 3.60 0.40	306.00 318.00 332.00	(0114) (0115) (0101)	1805.40 1144.80 132.80
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day)	per day m of	5.90 3.60 0.40 0.01	306.00 318.00 332.00 322.00	(0114) (0115) (0101) (0113)	1805.40 1144.80 132.80 2.58
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges	per day	5.90 3.60 0.40 0.01	306.00 318.00 332.00 322.00	(0114) (0115) (0101) (0113)	1805.40 1144.80 132.80 2.58
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges Diesel	per day	5.90 3.60 0.40 0.01	306.00 318.00 332.00 322.00 3000.00 80.87	(0114) (0115) (0101) (0113) (0003) (1235)	1805.40 1144.80 132.80 2.58 24.00 11.65
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 squents consolidation per day) Hire charges Diesel Carriage of diesel	per day in of  Per day litre quintal	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 squents consolidation per day) Hire charges Diesel Carriage of diesel sundries	per day	5.90 3.60 0.40 0.01	306.00 318.00 332.00 322.00 3000.00 80.87	(0114) (0115) (0101) (0113) (0003) (1235)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges Diesel Carriage of diesel sundries Total	per day in of  Per day litre quintal	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %	per day per day per day per day per day per day in of  Per day litre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %	per day per day per day per day per day per day in of  Per day litre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31
2.1	embankments for roads, flood banks, indepressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %	per day per day per day per day per day per day in of  Per day litre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74
2.1	embankments for roads, flood banks, and depressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sq consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %  Add GST 12% on "X"( multiplying factor 0.1405)	per day per day per day per day per day per day in of  Per day litre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74
2.1	embankments for roads, flood banks, and depressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cumto Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 sque consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %  Add GST 12% on "X" (multiplying factor 0.1405)	per day per day per day per day per day per day Itre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74
2.1	embankments for roads, flood banks, and depressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 squents consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %  Total Add GST 12% on "X"(multiplying factor 0.1405)  Total Add for contractor's profit and over-heads @ 15% on "Y"	per day per day per day per day per day per day Itre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74
2.1	embankments for roads, flood banks, and depressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 squents consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %  Total Add GST 12% on "X"(multiplying factor 0.1405)  To Add for contractor's profit and over-heads @ 15% on "Y" Cost of 10 cum	per day per day per day per day per day per day Itre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74 3602.05 473.75
2.1	embankments for roads, flood banks, and depressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 squents consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %  Add GST 12% on "X"(multiplying factor 0.1405)  To Add for contractor's profit and over-heads @ 15% on "Y" Cost of 10 cum Cost of 1 cum	per day per day per day per day per day per day Itre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74 3602.05 473.75
2.1	embankments for roads, flood banks, and depressions, lead upto 50 m and lift upto All Kinds of soil Details of cost for 10 cum Labour: Beldar Coolies Bhishti Chowkidar Roller charges (one roller does 1850 squents consolidation per day) Hire charges Diesel Carriage of diesel sundries Total Add for water charges 1 %  Total Add GST 12% on "X"(multiplying factor 0.1405)  To Add for contractor's profit and over-heads @ 15% on "Y" Cost of 10 cum	per day per day per day per day per day per day Itre quintal LS	5.90 3.60 0.40 0.01 0.01 0.014 0.00144	306.00 318.00 332.00 322.00 3000.00 80.87 16.39	(0114) (0115) (0101) (0113) (0003) (1235) (2342)	1805.40 1144.80 132.80 2.58 24.00 11.65 0.02 5.79 3127.04 31.27 3158.31 443.74 3602.05 473.75

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
2.3	Banking excavated earth in layers n	ot exceeding 2	20 cm in	depth, brea		ring rolling
	each layer with 1/2 tonne roller, or wo					
	with power roller of minimum 8 tons					
	marginal banks, and guide banks etc				31.13 .31 .3223,	ou sams,
2.3.1	All Kinds of soil Details of cost for 10 cum			.,		
	Labour:					
	Beldar	nor day	2.2	200.00	(044.4)	672.00
	Coolies	per day <i>per</i> day	2.2 3.6	306.00 318.00	(0114) (0115)	673.20
	Bhishti	per day	0.4	332.00	(0101)	1144.80 132.80
	Roller charges (one roller does 1850 s		0.4	332.00	(0101)	132.00
	consolidation per day)	, , , , , , , , , , , , , , , , , , , ,				
	Hire charges	Per day	0.008	3000.00	(0003)	24.00
	Chowkidar	per day	0.008	322.00	(0113)	2.58
	Diesel	litre	0.144	80.87	(1235)	11.65
	Carrinage of diesel	quintal	0.00144	16.39	(2342)	0.02
	Sundries	LS	2.73	2.12	(9999)	5.79
	Total					1994.84
	Add for water charges @ 1 %					19.95
		Total				2014.79 X
	Add GST 12% on "X"( multiplying factor 0.1405)					283.08
		Total				2297.87 Y
	Add for contractor's profit and over-head @ 15% on Y	ads				344.68
	Cost of 10 cum					0050.17
	Cost of 1 cum					2359.47
	Add labour cess @ 1%					235.95
	Rate including labour cess					2.36 238.31
			Say Rs		238.30	Dor our
2.4	Deduct for not rolling with power roll not exceeding 20 cm in depth.	ller of minimur	n 8 tonne	s for banki	ng excavated ear	th in layers
	Details of cost for 10 cum					
	Labour:					
	Chowkidar	per day	0.008	322.00	(0113)	2.58
	Roller charges & hire charges	Per day	0.008	3000.00	(0003)	24.00
	Diesel	litre	0.144	80.87	(1235)	11.65
	Carriage of diesel	quintal	0.00144	16.39	(2342)	0.02
	Sundries	LS	1.820	2.12	(9999)	3.86
	Total				- y-3	42.11
	Add for water charges @ 1%					0.42
		Total			· · · · ·	42.53 X
	Add GST 12% on "X"( multiplying factor					
	0.1405)					5.98
		Total				48.51 Y
	Add for contractor's profit and over-head @ 15% on Y	IS .				7.28
	Cost of 10 cum					55.78
	Cost of 1 cum					5.58
	Add labour cess @ 1%					0.06
	Rate including labour cess					5,64
			Say Rs		5.70	per cum

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Item No.	Description	Unit	Qty	Rate	Rate	Cost
2.5	Deduct for not watering the excavated Details of cost for 10 cum	earth for b	anking.		Code.	Rs.
	Labour: Bhishti	per day	0.4	332.00	(0101)	132.80
	Add for water charges @ 1 %					132.80 1.33
	Tota Add GST 12% on "X"( multiplying factor 0.1405)	al				134.13 X 18.84
	, Tota	n!				152.97 Y
	Add for contractor's profit and over-heads @ 15% on Y					22.95
	Cost of 10 cum					475.00
	Cost of 1 cum					175.92 17.59
	Add labour cess @ 1%					0.18
	Rate including labour cess					17.77
			Say Rs		17.800	per cum
2.6	Earth work in excavation over areas (explan) including disposal of excavated ea	ceeding 30	cm in dep	oth. 1.5 m ir	width as well as	10 sqm on.
	levelled and neatly dressed.	,	p.c 00 111 0	and intapt	J 1.5 III, disposet	earin to be
2.6.1	All Kinds of soil					
	Details of cost for 10 cum					
	Labour:					
	Mate	per day	0.80	325.00	(0128)	260.00
	Beldar	per day	8.00	318.00	(0115)	2544.00
	Total				_	2804.00
	Add for water charges @ 1%					28.04
	Tota				_	2832.04 X
	Add GST 12% on "X"( multiplying factor					397.90
	0.1405)					
	Tota Add for contractor's profit and over-heads					3229.94 Y
	@ 15% in y cost of 10 cum					484.49
	Cost of 1 cum					3316.53
	Add labour cess @ 1% Rate including labour cess					331.65 3.32
	Nate including labour cess		Say Rs		225 000	334.97
2.7	Earth work in excavation over areas		Say Ks		335.000	per cum
	(exceeding 30 cm in depth, 1.5 in width					
. 1	as well as 10 sqm on plan ) including					
	disosal of excavated earth, lead upto 50					
	m and lift upto 1.5 m, disposed earth to					
0:7.4	be levelled and neatly dressed :					
2.7.1	Ordinary rock. Details of cost for 10 cum Excavators	per day	1.41	322.00	(0132)	454.02
	Breakers	per day	3.18	322.00	(0133)	1023.96
	Hole drillers	per day	0.71	322.00	(0134)	228.62
	Beldar	per day	2.83	306.00	(0114)	865.98
	Coolies Powder	per day	4.64	318.00	(0115)	1475.52
	Fowder Fuse	kilogram each	1.97	40.00	(0325)	78.80
	Sundnes	1 time	2.00 4.15	15.00 2.12	(0326)	30.00
•	Total	i unie	4,10	2.12	(9999) _	8.80 4165.70
						4105.70

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for water charges @ 1%					41.66
		Total				4207.36
	Add GST 12% on "X"( multiplying factor	r				591.13
	0.1405)					
		Total				4798.49
	Add tor conttactor's profit and over-he	eads				719.77
	@ 15%on Y					
	Ccst of 10 cum					4927.13
	Cost of 1 cum					492.71
	Add labour cess @ 1%					4.93
	Rate including labour cess					497.64
	Tate molading labour occo		Say Rs	497.60		per cum
2.7.2	Hard rock (requiring blasting ) Detail	s of cost for 10	cum			
	Excavators	per day	2.12	322.00	(0132)	682.64
	Breakers	per day	5.65	322.00	(0133)	1819.30
	Hole drillers	per day	1.77	322.00	(0134)	569.94
	Beldar	per day	2.65	306.00	(0114)	810.90
	Coolies	per day	4.64	318.00	(0115)	1475.52
	Powder	kilogram	3.93	40.00	(0325)	157.20
	Fuse	each	4.00	15.00	(0326)	60.00
	Sundres	1 time	6.20	2.12	(9999)	13.14
	Total				(2222)	5588.64
	Add for water charges @ 1 %					55.89
		Total				5644.53
	Add GST 12% on "X"( multiplying facto	The second of the second				793.06
	0.1405)					
	Add for contractor's profit and over-he @ 15% on " Y"	Total eads				6437.59 965.64
	Cost of 10 cum					7403.23
	Cost of 1 cum					740.32
	Add labour cess @ 1%					7.40
	Rate including labour cess					747.72
			Say Rs	747.70		per cum
2.7.3	Hard rock (blasting prohibited)					
	Details of cost for 10 cum					
					(0132)	1590.68
	Excavators	per day	4.94	322.0Q	(0102)	
	Breakers	per day per day	4.94 12.00	322.00 322.00	(0133)	3864.00
	Breakers Stone Chiseller	per day per day	12.00 2.12	322.00 325.00		3864.00 689.00
	Breakers Stone Chiseller Black smith II class	per day per day per day	12.00 2.12 0.35	322.00 325.00 369.00	(0133)	
	Breakers Stone Chiseller Black smith II class Beldar	per day per day per day per day	12.00 2.12 0.35 3.00	322.00 325.00 369.00 306.00	(0133) (0135) (0103) (0114)	689.00
	Breakers Stone Chiseller Black smith II class Beldar Coolies	per day per day per day per day per day	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15
	Breakers Stone Chiseller Black smith II class Beldar	per day per day per day per day per day 1 time	12.00 2.12 0.35 3.00	322.00 325.00 369.00 306.00	(0133) (0135) (0103) (0114)	689.00 129.15 918.00 1812.60 13.14
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries	per day per day per day per day per day	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries Add for water charges (a) 1 %	per day per day per day per day per day 1 time	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries  Add for water charges (a) 1 % Total	per day per day per day per day per day 1 time Total	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries Add for water charges (a) 1 %	per day per day per day per day per day 1 time	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries  Add for water charges (a) 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)	per day per day per day per day per day per day 1 time Total	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17 9106.74 1279.50
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries  Add for water charges (a) 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Add for contractor's profit and over-he	per day per day per day per day per day per day 1 time Total	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17 9106.74 1279.50
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries  Add for water charges (a) 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Add for contractor's profit and over-he @ 15% on "Y"	per day per day per day per day per day per day 1 time Total	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17 9106.74 1279.50 10386.23 1557.93
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries  Add for water charges (a) 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Add for contractor's profit and over-he @ 15% on " Y" Cost of 10 cum	per day per day per day per day per day per day 1 time Total	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17 9106.74 1279.50 10386.23 1557.93
	Breakers Stone Chiseller Black smith II class Beldar Coolies Sundries  Add for water charges (a) 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Add for contractor's profit and over-he @ 15% on "Y"	per day per day per day per day per day per day 1 time Total	12.00 2.12 0.35 3.00 5.70	322.00 325.00 369.00 306.00 318.00	(0133) (0135) (0103) (0114) (0115)	689.00 129.15 918.00 1812.60 13.14 9016.57 90.17 9106.74 1279.50 10386.23 1557.93

No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Rate including labour cess					1206.36
			Say Rs		1206.40	per cum
2.8	Earth work in excavation in foundation to	ronoboo or	draina/nat	ovecedine	. 1 E main width and	10
	plan) including dressing of sides and ra	mming of b	urains(not	exceeding	1.5 m in width or	o sqm on
	excavted soil and disposal of surplus ex	cavated so	ottoms, im	cupio 1.5 n	n . Including getting	g out the
	, , , , , , , , , , , , , , , , , , , ,	touvated 30	n as un ect	eu, within	a lead of 50 III.	
2.8.1	All Kinds of soil					
	Details of cost for 10 cum					
	Labour:					
	Mate	per day	0.80	325.00	(0128)	260.00
	Coolies	per day	8.20	318.00	(0115)	2607.60
	Total				_	2867.60
	Add for water charges (@ 1 %					28.68
	Total					2896.28
	Add GST 12% on "X"( multiplying factor 0.1405)					406.93
	-					
	Tota  Add for contractor's profit and over-heads	aı				3303.20
	@ 15% on "Y"					495.48
	Cost of 10 cum				_	
	Cost of 1 cum					3798.68
5 6	Add labour cess @ 1%					379.87
1	Rate including labour cess					3.80
	The motion of taboat 5550		Say Rs	383 70		383.67
2.9	Excavation work in foundation trenches	or drains n	oay its	ng 15 m in	width or 10 came	per cum
	including dressing of sides and ramming	of thattom	e lift unto 1	ing 1.5 m m	width of 10 Sq.m.c	on pian
	excavated soil and disposal of surplus e	y cavated se	s intapto i	-4-1	numg getting cut tr	ie
		Acavateu St	ons as dire	ctea, wittu	ii a lead of 50 m.	
2.9.1	Ordinary rock	Acavated St	ons as dire	ctea, wittu	ir a lead of 50 m.	
2.9.1	Ordinary rock Details of cost for 10cum	Acavated St	ons as dire	ctea, wittu	n a lead of 50 m.	
2.9.1	Ordinary rock Details of cost for 10cum Labour :					
2.9.1	Ordinary rock Details of cost for 10cum Labour : Excavators	Per day	1.770	322.00	(0132)	569.94
2.9.1	Ordinary rock Details of cost for 10cum Labour : Excavators Breakers	Per day Per day	1.770 3.530	322.00 322.00	(0132) (0133)	1136.66
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers	Per day Per day Per day	1.770 3.530 1.060	322.00 322.00 322.00	(0132) (0133) (0134)	1136.66 341.32
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar	Per day Per day Per day Per day	1.770 3.530 1.060 2.830	322.00 322.00 322.00 306.00	(0132) (0133) (0134) (0114)	1136.66 341.32 865.98
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies	Per day Per day Per day	1.770 3.530 1.060	322.00 322.00 322.00	(0132) (0133) (0134)	1136.66 341.32
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials:	Per day Per day Per day Per day Per day	1.770 3.530 1.060 2.830 4.820	322.00 322.00 322.00 306.00 318.00	(0132) (0133) (0134) (0114) (0115)	1136.66 341.32 865.98 1532.76
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse	Per day Per day Per day Per day Per day each	1.770 3.530 1.060 2.830 4.820 3.000	322.00 322.00 322.00 306.00 318.00	(0132) (0133) (0134) (0114) (0115) (0326)	1136.66 341.32 865.98 1532.76 45.00
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder	Per day Per day Per day Per day Per day each kilogram	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries	Per day Per day Per day Per day Per day each	1.770 3.530 1.060 2.830 4.820 3.000	322.00 322.00 322.00 306.00 318.00	(0132) (0133) (0134) (0114) (0115) (0326)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total	Per day Per day Per day Per day Per day each kilogram	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 %	Per day Per day Per day Per day Per day each kilogram	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total	Per day Per day Per day Per day Per day each kilogram	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor	Per day Per day Per day Per day Per day each kilogram	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405) Tota	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y"	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum Add labour cess @ 1%	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 5986.12 598.61 5.99
2.9.1	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250 5.200	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325) (9999)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 598.61 5.99 604.60
	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum Add labour cess @ 1% Rate including labour cess	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 5986.12 598.61 5.99
.9.2	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum Add labour cess @ 1% Rate including labour cess  Hard rock (requiring blastiong)	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250 5.200	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325) (9999)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 598.61 5.99 604.60
.9.2	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum Add labour cess @ 1% Rate including labour cess  Hard rock (requiring blastiong) Details of cost for 10cum	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250 5.200	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325) (9999)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 598.61 5.99 604.60
.9.2	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum Add labour cess @ 1% Rate including labour cess  Hard rock (requiring blastiong) Details of cost for 10cum Labour:	Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250 5.200	322.00 322.00 306.00 318.00 15.00 40.00 2.12	(0132) (0133) (0134) (0114) (0115) (0326) (0325) (9999)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 598.612 598.61 5.99 604.60 per cum
9.2	Ordinary rock Details of cost for 10cum Labour: Excavators Breakers Hole drillers Beldar Coolies Materials: Fuse Powder Subdries Total Add for water charges (@ 1 % Total Add GST 12% on "X"( multiplying factor 0.1405)  Tota Add for contractor's profit ard over-heads @15% on "Y" Cost of 10 cum Cost of 1 cum Add labour cess @ 1% Rate including labour cess  Hard rock (requiring blastiong) Details of cost for 10cum	Per day Per day Per day Per day Per day each kilogram 1time	1.770 3.530 1.060 2.830 4.820 3.000 2.250 5.200	322.00 322.00 322.00 306.00 318.00 15.00 40.00	(0132) (0133) (0134) (0114) (0115) (0326) (0325) (9999)	1136.66 341.32 865.98 1532.76 45.00 90.00 11.02 4592.68 45.93 4638.61 651.72 5290.33 695.79 598.61 5.99 604.60

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Hole drillers	Per day	2.120	322.00	(0134)	682.6
	Beldar	Per day	2.650	306.00	(0114)	810.9
	Coolies	Per day	4.820	318.00	(0115)	1532.7
	Materials:	. or day	1.020	310.00	(0113)	1332.7
	Powder	each	6.420	40.00	(0325)	256.8
	Fuse	kilogram	7.000	15.00	(0326)	
	Subdries	1time	7.000	2.12	(9999)	105.0 15.3
	Total	rume	7.230	2.12	(9999)	
	Add for water charges (@ 1 %					6134.0
	Total					61.3
						6195.3
	Add GST 12% on "X"( multiplying factor 0.1405)					870.4
	Tota	al				7065.8
	Add for contractor's profit and over-heads					1059.8
	@ 15% on "Y'					
	Cost of 10 cum					7255.2
	Cost of 1 cum					725.5
	Add labour cess @ 1%					7.2
	Rate including labour cess					732.7
	-		Say Rs	732.80		per cur
2.9.3	Hard rock (Blasting Prohibited)					
	Details of cost for 10cum					
	Labour:					
	Excavators	D-v-l-	<b>5</b> 0	000.00	(0.400)	19232
	Breakers	Per day	5.3	322.00	(0132)	1706.6
	Chisellers	Per day	12.35	322.00	(0133)	3976.7
	Clacksmith II class	Per day	2.12	325.00	(0135)	689.0
	Beldar	Per day	0.35	369.00	(0103)	129.1
		Per day	3	306.00	(0114)	918.0
	Coolies	Per day	5.88	318.00	(0115)	1869.8
	Subdries	1time	6.9	2.12	(9999)	14.6
	Total					9303.9
	Add for water charges (@ 1 %				10 d	93.0
	Total					9396.9
	Add GST 12% on "X"( multiplying factor					1320.2
	0.1405)					
	Tota Add for contractor's profit and over-heads	al .				10717.23
	@ 15% on "Y'					1607.58
	Cost of 10 cum					12324.82
	Cost of 1 cum					1232.48
	Add labour cess @ 1%					12.32.46
	Rate including labour cess					12.3.

2.10 Excavating trenches of required width for pipes cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil and then returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.

2.10.1 All kinds of soil

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Item	Description	Uni	t Qty	Rate	Rate	Cost
No. 2,10,1,1	Pipes, cables etc, not exceeding 80mm		- Gity	Natu	Code,	Rs.
	dia.Details of cost for 180 m length of a pipe					
	of an average dia. Say 40 mm. Slope					
	assumed 1 in 200 Edrth work and filling-					
	Minimum depth of trench 60 cm.					
	Average depth =(0.6 +1.5)/2=1.05					
	Width for this depth 0.4 5m					
	180x0.45x1.05=85.05cum	cum	85.05	502.59	(2.8.1 + 2.26)	42745.08
	Cost of 180 m					
	Cost of 1 m					42745.08
	Add labour cess @ 1%					237.47 2.37
	Rate including labour cess					239.84
			Say Rs	239.80		per cum
2.10.1.2	Pipes, cables etc. ecceeding 80 mm dia.					• 5000 500
	But not exceeding 300mm dia					
	Details of cost for 110 m length of a pipe of a	n				
	average dia say 200mm.	••				
	slope assumed 1 in 200					
	Earth work and filling-					
	Minimum depth ot trench 0.75+0.2=0.95 m					
	Average depth = 1.5+0.95/2=1.225 m					
	Width = 0.4+0.2=0.6 m 110x0.06.x 1.225= 8		- 112			
	cum 5% for collars=4.04 cum - 84 89 cum	cum	84.89	502.59	(2.8.1 + 2.26)	42664.67
	Cost of 11 0 m					42664.67 42664.67
	Cost of 1 m					387.86
	Add labour cess @ 1%					3.88
	Rate including labour cess					391.74
			Say Rs	391.70		per cum
2.10.1.3	Pipes . cables etc. exceedding 300m dia					
	to 600mm dia.					
	Details of cost for 60 m leng'n of a pipe of					
	an average dia say 4 50 mm Slope assumed 1 in 200 Earth					
	work and filling					
	Minimum depth of trench 0.75+ 0.45=1.20 m					
	Average depth = (1.5+1.2)/2=1.35 m					
	Width = 0.4+0 45=0 85m 60x0.85x1.35 =					
	68.85					
	cum 5% for collars =3.44 cum - 72.29	cum	72.29	502.59	(2.8.1 + 2.26)	36332.06
						36332.06
	Cost of 60 m					36332.06
	Cost of 1 m					605.53
	Add labour cess @ 1%					6.06
	Rate including labour cess		Say Rs	611 60		611.59 per cum
2.11	Extra for excavating trenches for pipes,		Juy 13	- 11100	-	per cuill
2.11	cables etc.in all kinds of soil for depth					
	exceeding 1.5 m , but not exceeding 3					
	m.(Rate is over coresponding basic item					
1	for depth upto 1.5 meater.) Details of cost					
1	for 300 m . Length of pipe of an average					
	dia . Say 200m.				40.04 . 0.00	400000
	Slope assumed 1 in 200	cum	362.25	502.59	(2.8.1 + 2.26)	182062.38
n 1	( ) ) - a - a -	40.4	0/1	- 3	BCD/SOR_11th E	dition 2000
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tem No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	100x0.6x1.75= 105.00 cum					
	200x0.6x2.00 <u>= 240.00 cum</u>					
	345.00 cum					
	collars 5% = 17.25 cum					
	362.25.cum 1/2x200x1.6x1 = 160 cum	011100	160.00	454.07	(2.6.1	70000 00
	172X200X1.0X1 = 160 CUM	cum	160.00	454.37	(2.6.1 + 2.26)	72699.60
	Extra for additional lift 1/2x200x0.6x1.5=135.			40.00	(0.07.4)	
	cum collars 5%=.75cum 141.75 cum Cost of 300 m	cum	141.75	48.89	(2.27.1)	6930.77 261692.75
	Cost of 1 m					872.3
	200.00.1111					0,2.0
	Extra over item 2.10.1.2 ie. cost for one <i>m</i> length	m	1.00	387.86	(2.10.1.2)	387.86
	Extra cost per metre=B-A=C Percentage increase					484.45
	Over item 2.10.1.2=Cx100/A					124.90
	Cost of 1 m					124.90 1.25
	Add labour cess @ 1% Rate including labour cess					126.15
	Trate including labour dess		Say R	s 126.20		per metre
1						
2.12	*Extra for excavating trenches for pipes, cables etc.in all kinds of soil exceeding 3 m in depth, but not exceeding 4.5 m.(Rate is over coresponding basic item for depth upto 1.5 meater.) Details of cost for a 100 m. Length of a pipe of an					
	average dia. Say 200 mm.					
	Details of cost for a 100 m . Length of a pipe of an average dia. Say 200 mm. Slope assumed 1 in 200					
	Earth work and filling- 1x100x0.6x2=120 cum					
	collars 5% = 6 cum					
	126 cum	cum	126.00	502.59	(2.8.1 + 2.26)	63326.0
	Earth work -100x1.6x1.25=200cum	cum	200.00	454.37	(2.6.1 +	90874.50
ėş sil		Guill	200.00	101101	2.26)	
	Extra for additional lift					
	1x100x0.6x1.5 =90 cum					
	2x0.5x100x0.6x0.5 <u>=30 cum</u> = 120 cum					
	collars 5% = 6 cum					
	= 126 cum	cum	126.00	48.89	(2.27.1)	6160.69
	cost of 100 m length of pipes					160361.24 1603.6
	cost for 1 m. Length of pipe					1003.0
	Extra over item 2.10.1.2 i.e cost for 1 m length	of				×
	pipe upto 1.5 m depth	m	1.00	387.86	(2.10.1.2)	387.86
	B-A= C i.e Cx100/A =%					1215.75 313.45
						3.13
	Say					0.10
•	Say Add labour cess @ 1%					316.58
	Say		Say		316.60	316.58 per metre

684.08 69092.49

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
2.13.	Excavating trenches of required width for upto 1.5 m including getting out the excavexceeding 20 cm in depth including conscistacking serviceable material for measure within a lead of 50 m:	ated mate lidating ea	rials , rete ach depo	urning the so sited layer by	oil as required y ramming, wa	in layers not tering, etc.
2.13.1	Ordinary rock :		,			
	Pipes, cables etc. not exceeding 80 mm dia					
	Details of cost for 180 m length of a pipe of a average dia. Say 40 mm. slope assumed 1:200.					
	Excavation - quantity same as in item no 2.10 Refilling, ramming and watering Extra labour for ramming of rock Beldar Add for water charges @ 1 % on A Total A+B	0.1cLim cum per day	85.05 85.05 2.00	598.61 122.72 306.00	(2.9.1) (2.26) (0114)	50911.97 10437.28 612.00 (A 6.12 (B 618.12 (X
	Add GST 12% on "X"( multiplying factor 0.1405)					86.85
	Total Add for contractors profit and overheads @ 15% on "y"					704.97 Y 105.74
	1 Total					810.71
	Cost of 180 m Cost of 1 m Add labour cess @ 1% Rate including labour cess					62159.96 345.33 3.45 348.78
				Say Rs.	348.80	per metre length of pipe
2.13.1.2	Pipes, cables etc exceeding 80 mm dia but not exceeding 300 mm dia					
	Deatails of cost for 80 m length of pipe of an average dia . Say 200 mm Slope assumed 1 in 200 Minimum depth of trench. 0.75+0.15+0.20=1.7 average depth=(1.1+1.5)/2=1.3m	lm				
	Minimum width of trench.=80x0.3x1.3=9.60cum	cum .	93.60	598.61	(2.9.1)	56030.10
	Refilling ramming and watering Extra labour for ramming of rock-Unskilled labour	cum per day	93.60 2.20	122.72 306.00	(2.26) (0114)	11486.53 673.20 (A)
	Add water charges @ 1% on A Total(A+B)					6.73 (B) 679.93 X
	Add GST 12% on "X"( multiplying factor 0.1405)					95.53
	Total Add for contractors profit and overheads @ 15% on "y"					775.46 Y 116.32
	Total Cost of 80 m length of pipe-					891.78 68408.41

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Add labour cess @ 1%

Rate including labour cess

Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost Rs.
NO.	Cost of 1 m length of pipe		THE RESERVE OF THE PROPERTY OF	Say Rs.	863.70	863.66 per metre length of pipe
2.13.1.3	Pipes, cables etc exceeding 300 mm dia					pipe
	Details of cost for 30 m length of pipe of an av	erage dia	. Say 450	mm		
	Slope assumed 1 in 200					
	Excavation - Minimum depth of trench 0.75+0.15+0.45=1 35m					
	Average depth=(i .35 + 1 5)/2=1 425 m					
	Width of trench = 0 9 m					
	30x0.9x1.425 = 38.475 cum		10.000		(0.0.4)	04400.00
	5% for collars = 1.924 cum/40.399cum	cum	40.399	598.61	(2.9.1)	24183.33
	Refilling , ramming and waterning Exta labour for ramming for ramming rock Beldar	cum per day	40.399 0.94	122.72 306.00	(2.26) (0114)	4957.74 287.64 (
	Add for water charges @ 1 % on A Total(A+B)					2.88 ( 290.52 )
	Add GST 12% on "X"( multiplying factor 0.140	)5)				40.82
	Total					331.33 \
	Add for contractors profit and overheads @ 15% on "y"					49.70
	Total					381.03
	Cost of 30 m length of pipe Cost of 1m length of pipe					29522.10
	Add labour cess @ 1%					984.07 295.22
	Rate including labour cess					1279.29
	Cost of 1 m length of pipe	Say Rs.	1279.30	per metre l	ength of pipe	
2.13.2	Hard rock (requiring blasting)					
2.13.2.1	Pipes, cables etc. not exceeding 80 mm dia Details of cost for 180 m length of a pipe o		ge dia. S	ay 40 mm		
	Sipe assumed 1 in 200 Excavation					
	Same as in item no. 2.10.1.1	cum	85.05	732.80	(2.9.2)	62324.64
	Refilling, ramming and waatering	cum	85.05	122.72	(2.26)	10437.28
	Extra labour for ramming of rock Beldar Add for water chares @1% on A	per day	2.50	306.00	(0114)	765.00 (
	Total(A+B)					7.65 ( 772.65 )
	Add GST 12% on "X"( multiplying factor					108.56
	0.1405) Total					991 21 3
	Add for contractors profit and overheads @ 15% on "y"					881.21 \ 132.18
	Total					1013.39
	Cost of 180m length of pipe					73775.31
	Cost of 1 m length of pipe					409.86
	Add labour cess @ 1% Rate including labour cess					4.10
	a total tradition	Say Rs.	414.00	per metre I	ength of pipe	413.96
	Pipes, cablels etc. exceeding 80 mm dia, but not exceeding 300 mm dia.				S e. Pipo	
	Details of cost for 80 m length of a pipe of an average dia. Say 200 mm.					
	Slope assumed 1 in 200					

No.	Description	Unit	Qty	Rate	Rate Code,	Cost
	Excavation-				Code,	Rs.
	Same as in item No. 2.13.1.2	cum	93.60	732.80	(2.9.2)	00500.00
	Refiling, ramming and watering	cum	93.60	122.72		68590.08
	Extra labour for ramming of rock-Beldar	per day	2.75	306.00	(2.26)	11486.53
	Add for water charges @ 1 % on A	perday	2.75	300,00	(0114)	841.50 (A
	Total(A+B)					8.42 (E
	Add GST 12% on "X"( multiplying factor					849.92 X
	0.1405)					119.41
	Total	1	•			
	Add for contractors profit and overheads @					969.33 Y
	15% on "y"					145.40
	Total					
	Cost of 80 m length of pipe					1114.73
	Cost of 1 m length of pipe					81191.34
	Add labour cess @ 1%					1014.89
	Rate including labour cess					10.15
	Cost of 1 m langth of silver					1025.04
	Cost of 1 m length of pipe	Say Rs.	1025.00	per metre ler	igth of pipe	
.13.2.3	Pipes, cables tec. Exceeding 300 mm dia.					
	Details of cost for 30 m length of a pipe of an					
	average dia say 450 mm.					
	Slope assumed 1 in 200					
	Excavation-					
	Same as in item No. 2.13.1.3	cum	40.399	722.80	(0.0.0)	2000.00
	Refilling, ramming and watering	cum	40.399	732.80 122.72	(2.9.2)	29604.39
	Extra labour for ramming of rock Beldar	per day	1.17		(2.26)	4957.74
	Add for water charges @ 1 % on A	perday	1.17	306.00	(01 14)	358.02 (A
	Total(A+B)					3.58 (B
	Add GST 12% on "X"( multiplying factor 0.1405)					361.60 X 50.80
	Total					412.41 Y
	Add for contractors profit and overheads @ 15% on "y"					61.86
	Total					474.27
	Cost of 30 m length of pine					35575,52
	Cost of 1 m length of pipe					1185.85
	Add labour cess @ 1%					11.86
	Rate including labour cess					1197.71
		Say Rs.	1197,70	oer metre leng	gth of pipe	.,,,,,
					25 J. A	
2.13.3	Hard rock (blasting prohibited)					
.13.3.1	Pipe, cables etc. not exvceeding 80 mm dia.					
	Details of cost for 180 m length, of a pipe of					
	an average dia say 40 mm.					
	Slope assumed 1 in 200					
	Excavation-					
	Quantity same as in item 2.10.1.1	cum	85.05	1232.48	(2.9.3)	104822.57
	Refiling, ramming and watering	cum	85.05	122.72	(2.26)	10437.28
	Extra labour for ramming of rock Beldar	per day	2.50	306.00	(0114)	765.00 (A)
	Add for water charges @ 1 % on A					7.65 (B)
	Total(A+B)					772.65 X
	Add GST 12% on "X"( multiplying factor					108.56
	0.1405)					
	Total					881.21 Y
	Add for contractors profit and overheads @ 15% on "y"					132.18

No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
110.	Total			Water transfer to the same of		1013.39
	Cost of 180 m length of pipe					116273.24
						645.96
	Cost of 1 m length of pipe					6.46
	Add labour cess @ 1%					
	Rate including labour cess					652.42
		Say Rs.	652.40	per metre le	ngth of pipe	
2.13.3.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia.					
	Details of cost for 80 m length of a pipe of					
	an average dia say 200 mm.					
	Slope assumed 1 in 200					
	Excavation-		00.00	1000 10	(0, 0, 2)	445000.00
	Ouantily same as in item No. 2.13.1.2	cum	93.60	1232.48	(2.9.3)	115360.28
	Refilling, ramming and watering	cum	93.60	122.72	(2.26)	11486.53
	Extra labour for ramming of rock					
	Beldar	per day	2.50	306.00	(0114)	765.00 (/
	Add for water charges @ 1 % on A	F			,	7.65 (F
						772.65 (
	Total(A+B)					
	Add GST 12% on "X"( multiplying factor					108.56
	0.1405)					
	Total					881.21 Y
	Add for contractors profit and overheads @					132.18
	15% on "y"					
	Total					1013.39
	Cost of 80 m length of pipe					127860.20
	Cost of 1 m length of pipe					1598.25
	Add labour cess @ 1%					15.98
	Rate including labour cess					1614.24
		0 0	4044.00			1014.24
	Cost of 1 m length of pipe	Say Ks.	1014.20	per metre le	ngtn of pipe	
1333	Pipes, cables etc. exceeding 300 mm dia.					
. 10.0.5						
. 10.0.5						
. 10.0.5	Details of cost for 30 m length of a pipe of an					
. 10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.					
. 10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200					
. 10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200 Excavation -					
. 10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200 Excavation - Quantity same as in item 2.13.1.3	cum	40.40	1232.48	(2.9.3)	49791.03
. 10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200 Excavation -	cum cum	40.40 40.40	1232.48 122.72	(2.9.3) (2.26)	49791.03 4957.74
.10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200 Excavation - Quantity same as in item 2.13.1.3 Refilling, ramming ans watering					
.10.0.0	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200 Excavation - Quantity same as in item 2.13.1.3 Refilling, ramming ans watering Extra labour for ramming of rock	cum	40.40	122.72	(2.26)	4957.74
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm. Slope assumed 1 in 200 Excavation - Quantity same as in item 2.13.1.3 Refilling, ramming ans watering Extra labour for ramming of rock Beldar					4957.74 358.02 (
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 (
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation - Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 (
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 (
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation - Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 (
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 (
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @ 15% on "y"	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80 412.41 ) 61.86
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @ 15% on "y"  Total	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80 412.41 ) 61.86
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @ 15% on "y"  Total  Cost of 30 m length of pipe	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80 412.41 ) 61.86
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @ 15% on "y"  Total  Cost of 30 m length of pipe  Cost of 1 m lengtti of pipe	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80 412.41 ) 61.86 474.27 55223.04
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @ 15% on "y"  Total  Cost of 30 m length of pipe  Cost of 1 m lengtti of pipe	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80 412.41 ) 61.86 474.27 55223.04 1840.77
	Details of cost for 30 m length of a pipe of an average dia. Say 450 mm.  Slope assumed 1 in 200  Excavation -  Quantity same as in item 2.13.1.3  Refilling, ramming ans watering  Extra labour for ramming of rock  Beldar  Add for water charges @ 1 % on A  Total(A+B)  Add GST 12% on "X"( multiplying factor 0.1405)  Total  Add for contractors profit and overheads @ 15% on "y"  Total  Cost of 30 m length of pipe	cum	40.40	122.72	(2.26)	4957.74 358.02 ( 3.58 ( 361.60 ( 50.80 412.41 ) 61.86 474.27 55223.04

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Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost Rs.
2.14	*Extra for excavating trenches for pieps, cables, etc.in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m.(Raate is over coresponding basic item for depth upto 1.5 metre.) Details of cost for 300 m length of a pipe of an . average dia. Say 200 mm. Slope assumed 1 in 200.					NS.
	Excavation- 100x0.9x1.75 = 157.50 200x0.9x2.00 = 360.00					
	$200 \times 0.9 \times 2.00 = 360.00$ 517.50 com	OI Im	E17 E	722.00	(0.0.0)	
	1/2x200x1.9x1 = 190 cum Refilling, ramming and watering 517.50+19.00	cum	517.5 190	732.80 740.32	(2.9.2) (2.7.2)	379224.00 140661.28
	707.50 cum  Extra for additional lift 1/2x300x0.9x1.5=202.5	cum	707.5	122.72	(2.26)	86823.94
	cum  Extra labour for ramming of rock	cum	202.5	87.65	(2.27.2)	17750.09
-7,0	Beldar Add for water charges @ 1 % on A Total(A+B)	per day	16.5	306.00	(0114)	5049.00 ( 50.49 ( 5099.49 (
	Add GST 12% on "M"( multiplying factor 0.1405)					716.48
	Add for contractors profit and overheads					5815.97 ( 872.40
	@ 15% on "N"					
	Cost of 300 metre Cost of 1 metre					6688.36 631147.67 2103.83 (
	Rate as per item 2.13.2.2 Extra over item 2.13.2.2 Say X-Y = Z i.e. (Zx100)/ Y% = %	per item 2.13.2.2 metre 1014.89 (2.13.2.2) metre 2.13.2.2 Say X-Y = Z	(2.13.2.2)	1014.89 ( 1088.93 ( 107.30		
	Add labour cess @ 1% Rate including labour cess	Sau Da	409.40			1.07 108.37
		Say Rs.	108.40	per metre		
15	Extra for excavating trenches for pipes, cables, etc.in ordinary/hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over coresponding basic item. For depth upto 1.5 metre.)					
	Details of cost for a 100 m length of pipe of an average dia. Say 200 mm. Slope assuemd 1 in 200.					
	Max depth assumed 3.5 m. Excavation		V			
	100x0.9x2=180 100x1.9x1.25 = 237.5	cum cum	180.00 237.50	732.80 740.32	(2.9.2) (2.7.2)	131904.00 175826.59
	Extra for additional lift-					
	1x100x0.9x1.5 = 135 2x0.5x100x0.9x0.5 <u>= 45</u>					
		cum	180.00	87.65	(2.27.2)	15777.86
	2x0.5x100x0.9x0.5 <u>= 45</u> 180 cum Refilling, ramming and watering 180+237.5 = 417.5 cum Extra labour for ramming of rock	cum cum per day	180.00 417.50 9.25	87.65 122.72 306.00	(2.27.2) (2.26)	15777.86 51235.33 2830.50 (

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for water charges @ 1% on A		-			28.31
	Total					2858.81
	Add GST 12% on "M"( multiplying factor					401.66
	0.1405)					
	Total					3260.47
	Add for contraactor's profit and overheads @	15% on"N"	•			489.07
	Total					3749.54
	Cost of 100 metre					378493.32
	Cost of 1 metre					3784.93
	Extra over item 2.12 i.e. cost over item 2.13	.2.2				
	say= Y	m length	of pipe	1014.89	(2.13.2.2)	1014.89
	X-Y = Z				,	2770.04
	i.e.=(Z/y)x100 = %					272.94
	Add labour cess @ 1%					2.73
	Rate including labour cess					275.67
	Nate including labour cess		Say Rs.	275.70	per metre	
			4			
2.16	Close timbering in trenches including stru complete. (Measurements to be taken of the	tting. Sho ne face are	ring and parting and particular and	packing cavi ed):	ties (wherever	required)
.16.1	Depth not exceeding 1.5 m.					
	Details of cost for a trench 30 m long and					
	1.5 m deep area 2x30x1.5=90 sqm-					
	Materials:					
	The material can be used four times on					
	the same work and after use of material					
	credit is given @ 75% of cost					
	Poling boards of 2nd class Kail wood					
	planks					
	90x0.038 = 3.42 cum = 3420 dm2	10 cudm	342.00	260.00	(1198)	88920.00
	Walings-100mm x 100mm of 2nd class kail					
	wood					
	in scantling 4x30x0.1 = 1.20 cum = 1 200	10 cudm	120.00	260.00	(1197)	31200.00
	dm <sup>3</sup>	TO Cuain	120.00	200.00	(1101)	01200.00
	Safeda Balli struts (12.5 mm dia and 105					
	m long)	A STATE OF THE STA	E4.00	40.00	(0000)	0040.00
	2x17x1.5 = 51	metre	51.00	40.00	(0302)	2040.00
	Carriage:					
	Poling boards - 3 42 cum					
	Walings = 1.20 cum					
	Balli struts $tr/4x (0.125)^3 x51 = 0.3 cum$					
	5.25 cum	cum	5.25	187.35	(2204)	983.59
	Deduct credit for materials after use at 75% of	f the				
	cost of materials 3/4xY = X					92357.69
					(Y-X)	29802.31
	This can be used four times the same work				(***)	20002.0
	therefore, cost for using once		0.25	29802.31	(Z)	7450.58
	Carpenter II class	per day	0.50	369.00	(0112)	184.50
	Beldar	per day	1.00	306.00	(0114)	306.00
	Sundries	1 time	26.91	2.12	(9999)	57.05
		,	20.01	4.14	(0000)	7998.13
	Add for water charges © 1%					79.98
	Total					
	Add GST 12% on "M"( multiplying factor					8078.11
						1134.97
	0.1405)					0040.00
						9213.08 (
	Total					1001 00
	Add for contractor's profit and over-heads @ Cost of 90 sqm	15% on "N"	4			1381.96

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Cost of 1 sqm					117.72
	Add labour cess @ 1%					1.18
	Rate including labour cess					118.90
			Say Rs.	. 118.90	Per sqm	.,0.00
2.16.2	Depth exceeding 1.5 m but not exceeding	. 2				
	Details of cost for a trench 30 m long and	j 3 m. I 1 5 m dae	n Araa = 1	2020015-0	10 cam	
	Materials:	1.5 m dee	ep Alea – A	2,30,71.5 - 5	o sqm	
	Same as B vide item 2.16.1	sqm	1.00	7450.58	(2.16.1-B)	7450.58
	Labour:	3.			( /	, 100.00
	Carpenter II class	per day	0.75	369.00	(0112)	276.75
	Beldar	per day	2.00	306.00	(0114)	612.00
	Sundires	1 time	15.55	2.12	(9999)	32.97
	Total				(5555)	8372.30
	Add for water charges @ 1 %					83.72
	Total					8456.02
	Add GST 12% on "X"( multiplying factor					1188.07
	0.1405)					1100.07
	Total					9644.09
	Add for contractor's profit and over-heads					1446.61
	@ 15% on "y"					1710.01
	Cost of 90 sqm				-	11090.70
	Cost of 1 sqm					123.23
	Add labour cess @ 1%					
	Rate including labour cess					1.23 124.46
			Say Rs.	124.50	Persam	124.40
			ouy its.	124.50	reisqui	
.16.3	Depth exceeding 3m but not exceeding					
	4.5 m Details of cost for a atrench of 30 m					
	long and 1.5 m deep Area =2x30x1.5 = 90					
	sqm					
	Materials:					
	Same as B vide item no 2.16.1	com	4	7450.50	(0.40.45)	
	Labour:	sqm		7450.58	(2.16.1-B)	7450.58
	Carpenter II class					
	Beldar	per d3y	1.5	369.00	(0112)	553.50
	Sundries	per day	4	306.00	(0114)	1224.00
	Total	1 time	31.05	2.12	(9999)	65.83
					_	9293.91
	Add for water charges @ 1 %					92.94
	Total					9386.85
	Add GST 12% on "X"( multiplying factor					1318.85
	0.1405)					70.00
	Total					10705.70 (
	Add for contractor's profit and over-heads					1605.85
	@ 15% on "y"					1005.65
	Cost of 90 sqm				_	10011 55
	Cost of 1 sqm					12311.55
	Add labour cess @ 1%					136.80
	Rate including labour cess					1.37
			Say Rs.	138.200	Danas	138.17
			Jay NS.	130,200	Per sqm	
.17	Close timbering in case of shafts, wells,					
	cesspits, manholes and the like					
	inculuding strutting, shoring and packing					
	cavities (wherever =================================					
	cavities (wherever required) complete					
	(Measurements to be taken of the face					
	area timebered):					

No.		Description	Unit	Qty	Rate	Rate Code.	Cost		
2.17.1		eding 1.5 m. Details of cos	st			J Code.	Rs.		
	for a manhole 1_2mx1.0mx1.5m-Surface area 2 (1.2+1)x1.5=6.60 sqm								
		1.5=6.60 sqm							
	Materials:								
	Poling boards o	f 2nd class kail wood plan	ks-						
	6x6x0.038 = 0.2	51 cum= 251 dm <sup>1</sup>	10 cudm	25.1	260.00	(1198)	6526.00		
	Walings 2nd cla	ss kail wood scantiines				, ,	3323,00		
	2x2x1.124cO.1x	(0.1= 0.045 cum							
	2x2x0.924x0.1x	0.1= 0.037 cum							
		$= 0.082 \text{ cum} = 82 \text{ dm}^3$	10 cud m	8.2	260.00	(1197)	2132.00		
	Safeda Balli stru	its (125 mm dia and 1.5 m	ı lona)-			(,	2132.00		
	2x2x0.924 = 3.6	96	,						
	2x2x0.724 = 2.8	96							
	= 6.59	2 m	metre	6.59	40.00	(0302)	262.00		
	Carriage:			0.00	40.00	(0302)	263.60		
	poling boards	=0.251 cum							
	Walings	=0.082 cum							
		.125) <sup>J</sup> -4x7x6.59=0.081cu	m						
	3 EZ (U	0.414 cum	cum	0,414	107.05	(2004)	_		
	Deduct credit for	materials after use at 75	% of the	0.414	187 <i>.</i> 35	(2204)	77.56		
	cost of materials	3/4 xY = X	70 OF THE						
	(Y)-(X)						6749.37		
	Labour:						2249.79		
	This can be used four times on the same work								
	therefore cost fo	rusing once	WOIK	0.25	2040.70	( <del></del> )			
	Carpenter II clas	s admig office	nor dou		2249.79	(Z)	562.45		
	Beldar		per day	0.06	369.00	(0112)	22.14		
	Sundries		per day	0.12	306.00	(0114)	36.72		
	Carianos		1 time	2.73	2.12	(9999)	5.79		
	Add for water ch	arges @ 1 %					627.10		
	, lad for water cit		tal			<u> </u>	6.27		
	Add GST 12% o	n "M"( multiplying factor	tal				633.37		
	0.1405)	ii iii ( indilipiying ractor					88.99		
	0.1.1007	To	tal						
	Add for contracto	or's profit and over-heads					722.36		
	, 144 10, 0011114011		tal				108.35		
	Cost of 6.6 sqm	. 10	lai				830.71		
	Cost of 1 sqm								
	Add labour ces	s @ 1%					125.87		
	Rate including						1.26		
	rtato morading	labour cess					127.13		
				Say	127.10	Per sqm			
17.2	Depth exceedin	g 1.5 m but not exceedi	ng 3 m						
,	Details of cost fo	r a manhole 1.2 mx1.0mx	1.5m						
	Surface area = 2	(1.2+1.0)x1.5=6.6 sqm	***************************************						
	Materials:								
	Same as (B) in it	em No. 2.17.1	sqm	1.00	562.45	/2 17 1 D)	E00.45		
	Labour:		54111	1.00	302.40	(2.17.1-B)	562.45		
	Carpenter II class	3	per day	0.12	360.00	(0440)			
	Beldar		per day	0.12	369.00	(0112)	44.28		
-	Sundries		1 time		306.00	(0114)	76.50		
	Total		i mile	5.46	2.12	(9999)	11.58		
	Add for water cha	arges @ 1 %					694.81		
. '		To:	tal			-	6.95		
	Add GST 12% or	"X"( multiplying factor	ıaı				701.76		
	0.1405)	( mampiying factor					98.60		
		To	ial.				800.36		

No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for contractor's profit and over-heads @ 15% on "y"					120.05
	Cost of 6.6 sqm				_	
	Cost of 1 sqm					920.41 139.46
	Add labour cess @ 1%					1.39
	Rate including labour cess					140.85
				Say	140.80	Per sqm
2.17.3	Depth exceeding 3 m but not exceeding	g 4.5 m				
	Details of cost of a manhole					
	1.2 mx1.0x1.5m					
	Surface area = 2(1.2+1.0)x1.5=6.6 sqm- Materials:					
	Same as (B) in item No. 2.1 7.1	sqm	1.00	562.45	(2.17.1-B)	EGO 1E
	Labour:	oqiii	1.00	302.43	(2.17.1-0)	562.45
	Carpenter II class	per day	0.19	369.00	(0112)	70.11
	Beldar	per day	0.38	306.00	(0114)	116.28
	Sundries	1 time	8.06	2.12	(9999)	17.09
	Total					765.93
	Add for water charges @ 1 %  Tota				<u> </u>	7.66
	Add GST 12% on "X"( multiplying factor					773.59 <i>)</i> 108.69
	0.1405)					100.00
	Tota					882.28 (
	Add for contractor's profit and over-heads					132.34
	@ 15% on "y"					
	Cost of 6.6 sqm Cost of 1 sqm					1014.62
	Add labour cess @ 1%					153.73
	Rate including labour cess					1.54 155.27
				Say	155.30	Per sqm
2.18	Close timbering over areas including s	trutting sho	ring and			
4"		attang.one	ing and	paoiing, oa	inco (which could	cquircuj
2.18.1	Depth not exceeding 1.5 m					
2.18.1	Depth not exceeding 1 5 m Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm	n deep				
2.18.1	Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm Materials:					
2.18.1	Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm <b>Materials:</b> Poling boards of II class Kail wood Plank = 2	50x38mm	171.00	200.00	(4400)	44460 00 0
2.18.1	Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm <b>Materials:</b> Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3	50x38mm 10cudm	171.00	260.00	(1198)	44460.00 (
2.18.1	Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3 Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3	50x38mm 10cudm	171.00 30.00	260.00 260.00	(1198) (1197)	44460.00 (°
2.18.1	Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm <b>Materials:</b> Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3 Walings of II class kail wood in scantling 100	50x38mm 10cudm x100mm				7800.00 (
2.18.1	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3 Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3 Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m Carriage:	50x38mm 10cudm x100mm 10cudm	30.00	260.00	(1197)	•
	Details of cost for an area 30m long and 1.5r Area-30mx1.5m=45sqm Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3 Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3 Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m Carriage: Poling boards =1.71cum	50x38mm 10cudm x100mm 10cudm	30.00	260.00	(1197)	7800.00 (
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings = .30cum	50x38mm 10cudm x100mm 10cudm metre	30.00	260.00	(1197)	7800.00 (
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings =.30cum  Raking struts (p)x(0.125)²/4 = 0.323cum	50x38mm 10cudm x100mm 10cudm metre	30.00 25.50	260.00 40.00	(1197)	7800.00 (°
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings =.30cum  Raking struts (p)x(0.125)²/4 = 0.323cum 2.323cum	50x38mm 10cudm x100mm 10cudm metre	30.00	260.00	(1197)	7800.00 (
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings =.30cum  Raking struts (p)x(0.125)²/4 = 0.323cum	50x38mm 10cudm x100mm 10cudm metre	30.00 25.50	260.00 40.00	(1197)	7800.00 (° 1020.00 (° 435.21 (°
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3 Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3 Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings =.30cum Raking struts (p)x(0.125)²/4 = 0.323cum Deduct credit for materials after use at 75% of	50x38mm 10cudm x100mm 10cudm metre	30.00 25.50	260.00 40.00	(1197)	7800.00 (° 1020.00 (° 435.21 (° 40286.41 ()
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings =.30cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Deduct credit for materials after use at 75% cost of materials 3/4 Y = X	50x38mm 10cudm x100mm 10cudm metre	30.00 25.50 2.323	260.00 40.00 187.35	(1197)	7800.00 (° 1020.00 (° 435.21 (°
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum Walings =.30cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Deduct credit for materials after use at 75% of cost of materials 3/4 Y = X  Labour: This can be used four times on the same wor Therefore cost for using once	50x38mm 10cudm x100mm 10cudm metre	30.00 25.50 2.323 Z = 0.25	260.00 40.00 187.35	(1197) (0302) (2204) —	7800.00 (° 1020.00 (° 435.21 (° 40286.41 ()
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum = 30cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Deduct credit for materials after use at 75% of cost of materials 3/4 Y = X  Labour: This can be used four times on the same wor Therefore cost for using once  Carpenter II class	50x38mm 10cudm x100mm 10cudm metre cum of the	30.00 25.50 2.323 Z = 0.25 0.25	260.00 40.00 187.35 Y - X 13428.80 369.00	(1197) (0302) (2204) — (Z) (0112)	7800.00 (° 1020.00 (° 435.21 (° 40286.41 () 13428.80 (2 3357.20 (E 92.25
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum =30cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Deduct credit for materials after use at 75% of cost of materials 3/4 Y = X  Labour: This can be used four times on the same wor Therefore cost for using once  Carpenter II class  Beldar	50x38mm 10cudm x100mm 10cudm metre cum of the	30.00 25.50 2.323 Z = 0.25 0.25 0.50	260.00 40.00 187.35 Y - X 13428.80 369.00 306.00	(1197) (0302) (2204) — (2) (0112) (0114)	7800.00 (° 1020.00 (° 435.21 (° 40286.41 () 13428.80 (2 3357.20 (E 92.25 153.00
	Details of cost for an area 30m long and 1.5m Area-30mx1.5m=45sqm  Materials: Poling boards of II class Kail wood Plank = 2 45x0.038=1.71cum = 1.710dm3  Walings of II class kaii wood in scantling 100 30x0.1x0.1=0.30 cum = 300dm3  Raking struts safeda balleis 125mm dia. 17x1.5=25.5 m  Carriage: Poling boards =1.71cum = 30cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Raking struts (p)x(0.125)²/4 = 0.323cum  Deduct credit for materials after use at 75% of cost of materials 3/4 Y = X  Labour: This can be used four times on the same wor Therefore cost for using once  Carpenter II class	50x38mm 10cudm x100mm 10cudm metre cum of the	30.00 25.50 2.323 Z = 0.25 0.25	260.00 40.00 187.35 Y - X 13428.80 369.00	(1197) (0302) (2204) — (Z) (0112)	7800.00 (° 1020.00 (° 435.21 (° 40286.41 () 13428.80 (2 3357.20 (E 92.25

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for water charges @ 1%					36.69
	Total					3705.84
	Add GST 12% on "M"( multiplying factor					520.67
	0.1405)					
	Total					4226.51
	Add for contractor's profit and over-heads @					633.98
	15% on "N"					
	Cost of 45 sqm Cost of 1 sqm					4860.49
	Add Jahour page (2.49)					108.01
	Add labour cess @ 1%					1.08
	Rate including labour cess				100.10	109.09
				Say	109.10	Per sqm
2.18.2	Depth exceeding 1.5 m but not exceeding 3 m Details of cost for an area 30 m iong and 1.5 deep					
	Area = 30x1.5=45 sqm					
	Materials:					
	Same as (B) in item No. 2.18.1	sqm	1.00	3357.20	(2.18.1-B)	3357.20
	Labour:					
	Carpenter II class	per day	0.50	369.00	(0112)	184.50
1	Beldar	per day	1.00	306.00	(0114)	306.00
	Sundries	1 time	34.06	2.12	(9999)	72.21
	Total					3919.91
	Add for water charges @ 1 %					39.20
	Total					3959.11
	Add GST 12% on "X"( multiplying factor 0.1405)					556.25
	Total					4515.36
	Add for contractor's profit and over-heads					677.30
	@ 15% on "y"					
	Cost of 45 sqm				_	5192.67
	Cost of 1 sqm					115.39
	Add labour cess @ 1%					1.15
	Rate including labour cess				,	116.54
				Say Rs.	116.50	Per sqm
102	Depth exceeding 3 m but not exceeding					
.10.3	4.5 m. Details of cost for an area 30 m long and 1.5 deep Area = 30x1.5=45 sqm					
	Matorials					
	Materials: Same as (B) in item No. 2.18.1	sam	1.00	3357 20	/2 10 1 D)	2257.00
	Materials: Same as (B) in item No. 2.18.1 Labour:	sqm	1.00	3357.20	(2.18.1-B)	3357.20
	Same as (B) in item No. 2.18.1 Labour:					
	Same as (B) in item No. 2.18.1 Labour: Carpenter II class	per day	0.75	369.00	(0112)	276.75
	Same as (B) in item No. 2.18.1 Labour: Carpenter II class Beldar	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries	per day	0.75	369.00	(0112)	276.75 459.00 100.87
	Same as (B) in item No. 2.18.1 Labour: Carpenter II class Beldar	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries  Total	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries  Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94 4235.76
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries  Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor 0.1405)	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries  Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor 0.1405)  Total	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94 4235.76
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor 0.1405)  Total Add for contractor's profit and over-heads	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94 4235.76 595.12
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor 0.1405)  Total Add for contractor's profit and over-heads @ 15% on "y"	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94 4235.76 595.12
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries  Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor 0.1405)  Total Add for contractor's profit and over-heads @ 15% on "y" Cost of 45 sqm	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94 4235.76 595.12
	Same as (B) in item No. 2.18.1  Labour: Carpenter II class Beldar Sundries Total Add for water charges @ 1 %  Total Add GST 12% on "X"( multiplying factor 0.1405)  Total Add for contractor's profit and over-heads @ 15% on "y"	per day	0.75 1.50	369.00 306.00	(0112) (0114)	276.75 459.00 100.87 4193.82 41.94 4235.76 595.12 4830.88 724.63

Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost Rs.
	Add labour cess @ 1%					1.23
	Rate including labour cess					124.69
			Say Rs		124.70	Per sam

2.19 Extra for planking, strutting and packing materials for cavities i(in close timbering) if required to be left permanently in position (Face area of timber perma nently left to be measured) Details of cost for a trench 30 m long and 1.5 m deep Area =2x30x1.5 = 90 sqm

Materials: Details for materials- Same as (Y) in item 2.16.1 Carriage 1/2 of carriage of item 2.16.1 Less 1/8 of Y as timber is supposed to be used once before	sqm sqm	1.00 0.50	122160.0 983.59	(2.16.1-Y) (2.16.1 -A)	122160.00 (A) 491.80 (B) 15331.48
Total					107000 00
					107320.33
Add for water charges @ 1%				_	1073.20
Total					108393.53 X
Add GST 12% on "X"( multiplying factor					15229.29
0.1405)					
Total					123622.82 (Y)
Add for contractor's profit and over-heads					18543.42
@ 15% on "y"					.00 /0/.2
Cost of 90 sqm					142166.24
Cost of 1 sqm					1579.62
Add labour cess @ 1%					15.80
Rate including labour cess					1595.42
		Say F	Rs.	1595.40	Per sqm

- 2.20 Open timbering in trenches including strutting and shoring complete (Measurements to be taken of the face area timbered).
- 2.20,1 Depth not exceeding 1.5 m. Details of cost for a trench of tenth 30 m and 1.5 m deep surface area -2x30x1.5=90 sqm.

Materials:					
Polling board 1.5 mx0.25mx0.038 m					
2x40x1.5x0.25x0.038=1.14 cum = 1140 dm <sup>3</sup>	10 cudm	114	260.00	(.1198)	29640.00 (Y)
(Rate as per ii class kail wood plank)Waling					
100mm x $100$ mm- $4$ x $30$ mx $0.1$ mx $0.1$ m =					
1.20cum= 1200dm <sup>3</sup>	10 cudm	120	260.00	(1197)	31200.00 (Y)
(Rate peril class kali wood in scanttimg) Sare	da				A 8
Bailies struts(125 mm dia and 1 5 m long)					
2x17x1.5=51 m	metre	51	40.00	(0302)	2040.00 (Y)
Carriage					
Polling board	cum	2.97	187.35	(2204)	556.43 (Y)
Deducting credit for material after use @75	% of				
the cost materials = $3/4 \times Y = X$					47577.32 (X)
Z = Y - X					15302.68 (Z)
Labour:					
This can be used four times on the same wo	ork-				
there for cost for using once		0.25	15302.68	(Z)	3825.67 (B)
Carpenter II class	per day	0.25	369.00	(0112)	92.25
Beldar	per day	0.50	306.00	(0114)	153.00
Sundries	1 time	19.76	2.12	(9999)	41.89
					4112.81
Add for water charges @ 1 %					41.13
Total					4153.94 (M)

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add GST 12% on "M"( multiplying factor 0.1405)	A A STATE OF THE S				583.63
	Total					4737.57
	Add for contractor's profit and over-heads @ 1	15% on "N"				710.63
	Cost of 90 sqm				_	5448.20
	Cost of 1 sqm					60.54
	Add labour cess @ 1%					0.61
	Rate including labour cess					61.15
			Say Rs.		61.100	Per sqm
2.20.2	Depth exceeding 1.5 m but not exceeding 3 m Details of cost of a trench of length 30 m and 1.5 m deep Surface area =2x30x1.5=90 sqm.					
	Materials:					
	Same as (B) in item 2.20.1 Labour:	sqm	1.00	3825.67	(2.20.1-B)	3825.67
	Carpenter II class	per day	0.50	369.00	(0112)	184.50
	Beldar .	per day	1.00	306.00	(0114)	306.00
	Sundries	1 time	33.15	2.12	(9999)	70.28
	Total					4386.45
	Add for water charges @ 1 %					43.86
	Total					4430.31
	Add GST 12% on "X"( multiplying factor 0.1405)					622.46
	Total Add for contractor's profit and over-heads @ 15% on "y"					5052.77 757.92
	Cost of 90 sqm				_	5810.69
	Cost of 1 sgm					64.56
	Add labour cess @ 1%					0.65
	Rate including labour cess					65.21
			Say Rs.		Rs. 65.20	Per sqm
2.20.3	Depth exceeding 3 m but not exceeding 4. m. Details of cost for a trench of 30 m					
	length and 1.5 m deep surface area					
	=2x30x1.5= 90 sqm					
	Materials:					
	Sane as (B) in item 2.20.1  Labour:	sqm	1.00	3825.67	(2.20.1-B)	3825.67
	Carpenter II class	per day	1.00	369.00	(0112)	369.00
	Beldar	per day	1.75	306.00	(0114)	535.50
	Sundries	1 time	46.67	2.12	(9999)	98.94
	Total				,	4829.11
	Add for water charges @ 1 %					48.29
	Total Add GST 12% on "X"( multiplying factor					4877.40 685.27
	0.1405) Total					
	Add for contractor's profit and over-heads @ 15% on "y"					5562.68 834.40
	Cost of 90 sqm				-	6397.08
						71.08
	Cost of 1 sqm					
	Cost of 1 sqm Add labour cess @ 1%					0.71
	· · · · · · · · · · · · · · · · · · ·					0.71 71.79
	Add labour cess @ 1%		Say Rs.		Rs. 71.80	

Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost Rs.
2.21	Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (measurements to be taken of the face area timbered):					
2.21.1	Depth not exceeding 1.5 m  Details of cost for a manhole 1.2 m x1 m x 1.5  Surface area 2(1.2+1)x1.5=606 sqm  Materials:  Polling boards of 2nd class kail wood planks					
	mm wide and 38 mm thick 6x0.25x1.5x0.038=0.086 cum=86 dm <sup>3</sup> Walings - 2nd class kaill wood inscantling 100mm x 100 mm 4x1.2x0.1=0.048 cum=48	10 cudm	8.600	260.00	(1198)	2236.00 (Y
	dm3	10 cudm	4.800	260.00	(1197)	1248.00 (Y
	Safeda Balli struts 125 mm dia 4x1.0=4.0 2x1.2=2.4=6.40	metre	6.400	40.00	(0302)	256.00 (Y
	Carriage: Poling boards = 0.086 cum Walings = 0.048 cum					
	Balli struts $2274 \times 7(0.125)^3 \times 6.4 = 0.079$ cum	cum	0.213	187.35	(2204)	39.91 (A
	Deduct credit for materials after use -75% of the cost of materials $3/4 \times y = x$					
	Z = Y - X This can be used for items on the same work				<u>.</u>	2834.93 (X 905.07 (Z
	Therfore cost for using once Labour:		0.250	905.07	(Z)	226.27 (E
	Carpenter II class Beldar	per day	0.030 0.060	369.00 306.00	(0112) (0114)	11.07 18.36
	Sundries Total Add for water charges @ 1 %	1 time	1.820	2.12	(S999)	3.86 259.56 2.60
	Total Add GST 12% on "M"( multiplying factor 0.1405)					262.16 (N 36.83
	Total					298.99 (N
	Add for contractor's profit and over-heads @ Cost of 6.6 sqm Cost of 1 sqm Add labour cess @ 1% Rate including labour cess	15%				44.85 343.84 52.10 0.52 52.62
			Say Rs.		Rs. 52.60	Per sqm
.21.2	Depth exceeding 1.5 m but not exceeding 3 m  Details of cost for manhole of length of 1.2 m width 1.0 m and depth 1.5  Surface area = 2(1.2+1)x1.5=6.6 sqm.  Materials:					
	Same as (B) in item 2.21.1 Labour:	som	1.000	226.27	(2.21.1-B)	226.27
	Carpenter II dass Beldar	per day per day	0.060 0.120	369.00 306.00	(0112) (0114)	22.14 36.72
4	L 2 By Com	118 (		18	BCD/SOR_11th E	dition_2022

No.	Description	Unit	Qty	Rate	Rate	Cost
	Sundries	1 time	2.730	2.12	Code. (9999)	Rs. 5.79
	Total				(/	290.92
	Add for water charges @ 1%					2.91
	Add GST 120/					293.83 X
	Add GST 12% on "X"( multiplying factor 0.1405)					41.28
	Add for contractor's profit and over-heads					335.11 (Y
	@ 15% on "y" Cost of 6.6 sqm					50.27
	Cost of 1 sqm					385.38
	Add labour cess @ 1%					58.39
	Rate including labour cess					0.58
	rate including labour cess		O D		N. D. 150 00 11	58.97
2 24 2	Book and the second sec		Say Rs.		Rs. 59.00	Per sqm
2.21.3	Depth exceeding 3 m but not exceeding 4.5 m Details of cost for manhole of length of 1.2 m width 1.0 m and depth 1.5					
	Surface area = $2(1.2+1.0)x1.5=6.6$ sqm.					
	Materials:					
	Same as (B) in item 2.21.1 Labour:	sqm	1	226.27	(2.21.1-B)	226.27
	Carpenter II ciass	per day	0.1	369.00	(0112)	36.90
	Beldar	per day	0.2	306.00	(0114)	61.20
	Sundries	1 time	3.64	2.12	(9999)	7.72
	Total					332.09
	Add for water charges @ 1 %					3.32
	Total Add GST 12% on "X"( multiplying factor 0.1405)					335.41 X 47.13
	Total					382.54 (Y
	Add for contractor's profit and over-heads  @ 15% on "y"					57.38
	Cost of 6.6 sqm					439.92
	Cost of 1 sqm					66.65
	Add labour cess @ 1%					0.67
	Rate including labour cess					67.32
		,		Say	Rs. 67.30	Per sqm
2.22	Open timbering over areas including					
	strutting, shoring and use and waste of					
	raking shores, complete (Measurements					
	to be taken of the face area timbered)					
2.22.1						
	Details of cost for an area 30 m long and 1.5	m				
	deep area = 30x 1.5=45 sqm					
	Materials:					
	Poling boards of II class kail wood Planks 250 mm x 38 mm	10 cudm	57,00	260.00	(1198)	14820.00 (Y
	40x1.5x0.25x0.038=0.57 cum =570 dm <sup>3</sup>				X	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Raking struts - safeda Bailies	metre	60.00	40.00	(0302)	2400.00 (Y
	125 mm dia 40x1.5=60m					(
	Carriage:					
	Polling boards = 0.57 cum					
	Bailies 40x1.5xpx1/4x(0125) <sup>2</sup> =0.74cum=1.31	cum				

item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
110.		cum	1.31	187.35	(2204)	245.43
	Deduct credit for materials after use at 75	5% of the				
	cost of materials $3/4 \times y = x$					12915.00
						4305.00
	This can be used four times on the same	work	0.05	1005.00	(7)	1076.05
	Therfore cost for using once		0.25	4305.00	(Z)	1076.25
	Labour:		0.12	369.00	(0112)	44.28
	Carpenter II class Beldar	per day	0.12	306.00	(0114)	76.50
		per day	19.76	2,12	(9999)	41.89
	Sundries	1 time	19.70	2.12	(5555)	1238.92
	Add for water charges @ 1 %					12.39
	Add for water charges @ 1 %	otal				1251.31
	Add GST 12% on "X"( multiplying factor	otai				175.81
	0.1405)					
		otal				1427.12
	Add for contractor's profit and over-heads					214.07
	Cost of 45 sqm					1641.19
	Cost of 1 sqm					36.47
	Add labour cess @ 1%					0.36
	Rate including labour cess					36.83
				Say	Rs. 36.80	Per sqm
	17 H B B B 18 (2011) (1944)					
2.22.2	Depth exceeding 1.5 m but not exceed	ing				
	3 m Details of cost for an area of 30	m				
	long and 1.5 m deep area = $30x1.5$ =					
	sgm					
	Materials:					1070.05
	Same as (B) in item no 2.22.1	sqm	1.00	1076.25	(2.22.1-B)	1076.25
	Labour:				(0.440)	02.25
	Carpenter II class	per day	0.25	369.00	(0112)	92.25 153.00
	Ordinary labour	per day	0.50	306.00	(0114)	70.28
	Sundries	1 time	33.15	2.12	(9999)	1391.78
	Total					13.92
	Add for water charges @ 1 %					1405.70
		tal				197.50
	Add GST 12% on "X"( multiplying factor					197.50
	0.1405)					1603.20
	То	tal				240.48
	Add for contractor's profit and over-heads					210.10
	@ 15% on "y"				St. January and St.	1843.68
	Cost of 45 sqm					40.97
	Cost of 1 sqm					0.41
	Add labour cess @ 1%					41.38
	Rate including labour cess			Say	Rs. 41,40	Per sqm
				Juy	Market Tarasa Market Tarasa	
	u a lutust avaaadi	na				
2.3	Depth exceeding 3 m but not exceeding 3 m but not exceeding 3 m but not exceeding 300 m but not exceed	in				
	4.5 m Details of cost for an area 30	45				
	long and 1.5 m deep area = $30x1.5$ -					
	sqm					
	Materials:	sqm	1.00	1076.25	(2.22.1-B)	1076.25
	Same as (B) in item no 2.22.1	7				10
	Labour:	per day	0.50	369.00	(0112)	184.50
	Carpenter II class	per day	0.88	306,00	(0114)	269.28
	Beldar	1 time	47.58	2.12	(9999)	100.87
	Sundries Total		1 10	Liver has A		1630.90

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Add for water charges @ 1%					16.31
	Total					1647.21 X
	Add GST 12% on "X"( multiplying factor 0.1405)					231.43
	Total Add for contractor's profit and over-heads @ 15% on "y"					1878.64 (Y 281.80
	Cost of 45 sqm					2160.44
	Cost of 1 sqm					48.01
	Add labour cess @ 1%					0.48
	Rate including labour cess			0	Rs. 48.50	48.49
0.00				Say	RS. 40.50	Per sqm
2.23	Extra for planking and strutting in open timbering if required to be left permanently in position (face area of the timber permanently left to be measured).					
	Details of cost for a trench 30 m long and 1.5m deep surface area 2x30x1.5=90 sqm					· · · · · · · · · · · · · · · · · · ·
	Materials:					
	Same as (Y) in item no. 2.20.1	sqm	1.00	62880.00	(2.20.1-Y)	62880.00 (A
	Carriage 1/2 of the carriage of item no 2.20.1	sqm	0.50	556.43	(2.20.1-A)	278.22 (B
	Less 1/8th of (Y) as timber is supposed to be used once before	sqm	0.13	62880.00	(2.20.1-Y)	7860.00
	0.48					55020.00 (Z)
	Add for water charges @ 1%					550.20 55570.20 (M
	Add GST 12% on "M"( multiplying factor 0.1405)					7807.61
	Total					63377.81 (N
	Add for contractor's profit and over-heads @	15% on (N)				9506.67
	Cost of 90 sqm				· · · · · · · · · · · · · · ·	72884.49
	Cost of 1 sqm					809.83
	Add labour cess @ 1%					8.10
	Rate including labour cess				D. 047.00	817.93
2.24	Extra rates for quantities of works, executed:			Say	Rs. 817.90	Per sqm
2.24.1	In or under water and/or liquid mud, including pumping out water as required Extra due to slow progress and dewatering: 20% of the rate of item					
	(20% of the rate of the item. The extra percentage in rate is applicable in respect of each item but limited to quantities of work executed in	metre depth				
	Cost of 1 metre depth					20.00%
	Say					20.00%
2.24.2	In or under foul position, including					
	pumping out water as required Extra due to slow progress and dewatering: 25% of the rate of item					

ı	Item				Y		
ł	iteiii	Description	1114	0.1		Rate	Cost
l	No.	2000//ption	Unit	Qty	Rate		- 0031
		(OFFICE ALL)				Code,	R C

(25% of the rate of the item. This pertains to metre only such. Pumping of water as is envisaged depth at the time of tendering and don't include those that covered under contractual risk)

> Cost of 1 metre depth Say

25.00% 25.00%

Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult conditions. The depth shall be reckoned correct to 0.10 m, 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.

2.25(A) Excavating, supplying and filling of local earth (including royalty but excluding cairriage cost) by mechanical transport upto a lead of 3km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc.complete. If local earth is available at more than 3 km lead the actual lead must be approved by compitent authority. Carriage of material will be paid separately and calculated after deducting initial lead..

		Details of cost for 10 cum						
2	.6.1	Rate as per item no 2.6.1 of	cum	10.00	331.65	2.6.1	3316.53	Α
		SH:2 EARTH WORK					00.00	,,
		Add ramming and watering of the earth in						
		layers layers (Ref. item no 2.27)						
1	14	Beldar (1/2x0.89=0.45 day)	day	0.45	306.00	0114	137.70	
1	01	Bhisti	day	0.35	332.00	0101	116.20	
		Carriage of materials			V.		110.20	
		SH:1 CARRIAGE OF MATERIALS	cum	10.00	0.00		0.00	Α
9	79	Royalty for good earth	cum	10.00	33.00	0979	330.00	W
		TOTAL					3900.43	
		Add 1 % Water charges on "W-A"					5.84	
		TOTAL					3906.27	X
		Add GST on "X-A" (multiplying factor 0.1405	i) .				82.04	
		TOTAL					3988.31	Y
		Add 15% CPOH on "Y-A"					87.58	
		TOTAL					4075.89	Z
		Add Cess @ 1% on "Z-A"					40.76	
		Cost of 10 cum					4116.65	
		Cost of 1 cum					411.67	
		Say			Say	Rs. 411.70		

2.25 Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.

Details for 10.91kl-

Pumping hours 3 hrs. or 0.375 days.

Cost of pumping water with 3636.8 litres

per hour

capacity pump-Per day 0.375 700.00 (0011)262.50 per day 2.000 306.00 (0114)612.00 Beldar Total 874.50 Add for water charges @ 1 % 8.75

Total

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883.25 X

Item	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
No.	Add GST 12% on "X"( multiplying factor					124.10
	0.1405) Total					1007.34 (\
	Add for contractor's profit and over-heads					151.10 `
	@ 15% on "y"					4450 44
	Cost of 10.91 KI					1158.44 106.18
	Cost of 1 KI					1.06
	Add labour cess @ 1%					107.24
	Rate including labour cess			Say	Rs. 107.20	Per KI
2.26	Filling available excavated earth					
2.20	(excluding rock) in trenches, plinth, sides					
	of foundations etc. in layers not	t				
	exceeding 20 cm in depth: consolidating					
	each deposited layer by ramming and watering lead	-				
	Upto 50m and lift upto 1.5m					
	Details of cost for 10 cum Labour:					
	Mate	per day	0.200	325.00	(0128)	65.00
	Coolies	per day	2.500	318.00	(0115) (0101)	795.00 66.40
	Bhisthi	per day	0.200	332.00	(0101)	926.40
	Total Add for water charges @ 1 %					9.26
	Total					935.66
	Add GST 12% on "X"( multiplying factor 0.1405)					131.46
	Total					1067.12 (
	Add for contractor's profit and over-heads					160.07
	@ 15% on "y"					1227.19
	Cost of 10 cum Cost of 1 cum		•			122.72
	Add labour cess @ 1%					1.23
	Rate including labour cess					123.95
				Say	Rs. 123.90	Per cum
2.27	Extra for evey additional lift of 1.5 m or	r	,			
	part there of in:					
2.27.1	All kinds of soil.					
	Details of cost of 10 cum					
	Labour: Mate	per day	0.100	325.00	(0128)	32.50
	Beldar	per day	1.100	306.00	(0114)	336.60
	Total	1			(	369.10
	Add for water charges @ 1 %					3.69
	Total					372.79
	Add GST 12% on "X"( multiplying factor					52.38
	0.1405) Total					425.17
	Add for contractor's profit and over-heads					63.78
	@ 15% on-"y"				·	00.10
	Cost of 10 cum					488.94
	Cost of 1 cum					48.89
	Add labour cess @ 1%					0.49
	Rate including labour cess	123		_	,	49.38 A
				_ (Bary		

Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost
		.l	Say	Rs. 49.40	Per cum	Rs.
2.27.	2 Ordinary or hard rock Details of cost for					
	10 cum					
	Labour:					
	Mate Beldar	per day	0.20	325.00	(0128)	65.00
	Total	per day	1.95	306.00	(0114)	596.70 661.70
	Add for water charges @ 1 %					6.62
	Total					668.32 X
	Add GST 12% on "X"( multiplying factor 0.1405)					93.90
	Total					762.22 (Y
	Add for contractor's profit and over-heads					114.33
	@ 15% on "y"					.,,
	Cost of 10 cum Cost of 1 cum					876.55
	Add labour cess @ 1%					87.65
	Rate including labour cess					0.88 88.53
	•	Say Rs.	88.60	per cum		00.55
2.28	Supplying and Filling in plinth with local					
2.20	sand and under floors including,					
	watering, ramming consolidating and					
	dressing complete. Details of cost for 10					
	cum					
	Materials:					
	Local sand	cum	10.00	141.85	(6501)	1418.50
	Carriage of Local sand Labour:	cum	10.00	0.00	(2335)	0.00
	Beldar	per day	0.89	306.00	(0114)	272.34
	Coolies	per day	1.07	318.00	(0114)	340.26
	Bhishties	per day	0.35	332.00	(0101)	116.20
	Total Add for water charges @ 1 %					2147.30
	Total					21.47 2168.77 X
	Add GST 12% on "X"( multiplying factor					304.71
	0.1405)					
	Total Add for contractor's profit and over-heads					2473.49 (Y)
	@ 15% on "y"					371.02
	Cost of 10 cum					2844.51
	Cost of 1 cum					284.45
	Add labour cess @ 1% Rate including labour cess					2.84
	Nate including labour cess		Say Rs.	287.30	per cum	287.29
			ouy no.	207.50	per cum	
2.29	Surface dressing of the ground induding					
	removing vegetation and inequalities not					
	exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5					
	m					
2 20 4						
2.29.1	Ail kinds of soil.  Details of cost for 100 sqm.					
	Labour:					
	Beldar	per day	1.97	306.00	(0114)	602.82
	Coolies	per day	1.29	318.00	(0115)	410.22
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Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost Rs.
	Total					1013.04
	Add for water charges @ 1 %					10.13
	Total					1023.17 X
	Add GST 12% on "X"( multiplying factor 0.1405)					143.76
	Total Add for contractor's profit and over-heads  @ 15% on "y"					1166.93 (Y 175.04
	Cost of 100 sqm					1341.96
	Add labour cess @ 1%					13.42
	Rate including labour cess					1355.38
			Say Rs.	1355.40	per 100 sqm	
2.30	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same:					
2.30.1	All kinds of soil. Details of cost for 100					
	sqm.					
	Labour:					
	Beldar	per day	2.75	306.00	(0114)	841.50
	Bhishti	per day	0.50	332.00	(0101)	166.00
	Total					1007.50
	Add for water charges @ 1%					10.08
	Total Add GST 12% on "X"( multiplying factor					1017.58 X
	0.1405)					142.97
	Total					1160.54 (Y
	Add for contractor's profit and over-heads @ 15% on "y"					174.08
	Cost of 100 sqm				_	1334.63
	Add labour cess @ 1%					13.35
	Rate including labour cess					1347.98
0.04			Say Rs.	1348.00	per 100 sqm	
2.31	Excavating holes upto 0.5 cum including					
	getting out the excavated soil, then					
	returning the soil as required in layer not exceeding 20 cm in depth, including					
	consolidating each deposited layer by					
	ramming, watering etc, disposing of					
	surplus excavated soil; as directed within					
	a lead of 50 m and lift upto 1.5m.					
2.31.1	All kinds of soil.					
	Details of cost for 10 holes Earthwork 10 x 0	0.30 =3.0cc	ım			
	cum	cum	3.00	383.70	(2.8.1)	1151.10 (A
	Extra labour for filling and ramming Add for water charges @ 1 % on B	LS	13.52	2.12	(9999)	28.66 (B
	Total					0.29 (0
	Add GST 12% on "X"( multiplying factor					28.95 (X
	0.1405)					4.07
	Total  Add for contractor's profit and over - heads (	<b>ര</b> 15% റ	"\"			33.02 (Y
	Total	w 1376 UII	1			4.95
	Cost of 10 holes				_	37.97 1189.07
	Cost of 1 hole					1189.07
	Add labour cess @ 1%					1.19
	Rate including labour cess					120.10
				Say	Rs.120,10	
				Sav	15.120.10	Per hole

Item No.	Description	Unit	Qty	Rate	Rate Code,	Cost
2.31.2	Ordinary rock	I			Code,	Rs.
	Details of cost for 10 holes					
	Excavation 10 x 0.30 = 3.0 cum	cum	3.00	604.60	(2.9.1)	1813.80
	Extra labour for filling and ramming	1 time	13.52	2.12	(9999)	28.66
	Add for water charges @ 1% on B				•	0.29
	Total					28.95
	Add GST 12% on "X"( multiplying factor 0.1405)					4.07
	To	tal				33.02
	Add for contractor's profit and over - hea	ds @ 15% on	"Y"			4.95
	Total					37.97
	Cost of 10holes					1851.77
	Cost of 1 hole					185.18
	Add labour cess @ 1%					1.85
	Rate including labour cess					187.03
				Say	Rs.187.00	Per hole
2.31.3	Hard rock(requiring blasting)					
	Details of cost for 10holes 10 x 0.30= 3.0 c	um cum	3.00	725.52	(2.9.2)	2176.57
	Extra labour for filling and ramming	1 time	13.52	2.12	(9999)	28.66
	Add for water charges @ 1 % on B					0.29
	Total					28.95
	Add GST 12% on "X"( multiplying factor 0.1405)					4.07
	Tot					33.02 (
	Add for contractor's profit and over - head			4.95		
	01-5401-1					37.97
	Cost of 10 holes					2214.54
	Add labour cess @ 1%					221.45
	Rate including labour cess					2.21
	Cost of 1 hole					223.66
				Say	Rs.223.70	Per hole
2.31.4	Hard rock (blasting prohibited) Details of cost for10 holes					
	Excavation 10 x 0.30= 3.0 cum	e 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	0.00	1000.10		
	Extra labour for filling and ramming	cum	3.00	1232.48	(2 9 3)	3697.45
	Add for water charges @ 1 % on B	1 time	13.52	2.12	(9999)	28.66
	Total					0.29
	Add GST 12% on "X"( multiplying factor					28.95 (
	0.1405)					4.07
	Tota	si.				00.00
	Add for contractor's profit and over - head					33.02 (
	Total	3 (2) 1376				4.95
	Cost of 6 holes					37.97
	Cost of 1 hole					3735.41
	Add labour cess @ 1%					622.57
	Rate including labour cess					6.23
	rate including labour cess			C	D- 000 00	628.80
	Note - Lead			Say	Rs.628.80	Per hole
		d				
	(i)Carriage of excavated material beyon					
	the first 50 m will be paid under .carriag	е				
•	of materials vide sub head II.					

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Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	(ii)Carriage by animal and mechanical transport will be recknoed in terms of nearest km. distance of 0.5 km or more, will be taken as 1 km. and distance of less than 0.5 km. ignored. However, when the total lead is less than 0.5 km. it will not be ignored but paid for separately in successive stages of 50 m. subject to the condition that the total rate worked out on these bases does not exceed the rate for intial lead of 1 km.					
2.32	Clearing jungle including uprooting of rank vegetation .grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level" and removal of rubbish uplo a distance of 50 m outside the periphery of the area deared.					
	Details of cost for 100 sqm.					
	Labour: Beldar Coolie Total Add for water charges @ 1% Total Add GST 12% on "X"( multiplying factor	per day per day	1.080 0.600	306.00 318.00	(0114) (0115)	330.48 190.80 521.28 5.21 526.49 2
	0.1405)					
	Total Add for contractor's profit and over-heads @ 15% on "y" Cost of 100 sqm					600.47 ( 90.07 690.53
	Add labour cess @ 1% Rate including labour cess					6.91
	9 10 10 10 10 10 10 10 10 10 10 10 10 10		Say		Rs.697.40	697.44 per 100 sqm
2.33	Note:- If however, only grass is met with, the area a will be measured and paid for, under separate item.  Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.					
	Details of cost for 100 sqm.					
	Labour: Beldar Coolies Sundries Total Add for water charges @ 1 % Total Add GST 12% on "X"( multiplying factor	per day per day LS	0.600 0.250 1.820	306.00 318.00 2.12	(0114) (0115) (9999)	183.60 79.50 3.86 266.96 2.67 269.63 ) 37.88
	0.1405)					
						307.51 (° 46.13 353.64

ltem No.	Description	Unit	Qty	Rate	Rate Code,	Cost Rs.
2.34	Rate including labour cess  Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material:		Say		Rs.357.20	357.18 per 100 sqm
2.34.1	Beyond 30 cm girth upto and including 60 cm girth Details of cost of tree of 15 cm. in dia Ht. = av. 3m quantity of wood 3.14/4 x.15x. 15x3 = 0.053 cum. Add 20% for branches = 0.011 cum					
	Labour: For cutting the tree and removing the roots from the soil and then filling the pit and depression.					
	Beldar Coolie Sundries Total Add for water charges @ 1 % Total	per day per day LS	0.33 0.17 2.73	306.00 318.00 2.12	(0114) (0115) (9999)	100.98 54.06 5.79 160.83 1.61 162.44 X
	Add GST 12% on "X"( multiplying factor 0.1405)  Total Add for contractor's profit and over-heads				-	22.82 185.26 (`
	@ 15% on "y"  Cost of 1 tree  Add labour cess @ 1%  Rate including labour cess					27.79 213.05 2.13 215.18
2.34.2	Beyond 60 cm girth upto and including 120 cm girth  Details of cost of a tree of av. firth = 90 cm of av. dia. = 0.3 in			Say	Rs.215.20	Each
*	and length = 5 m  22x0.3x0.3x5/7x4 = 0.35 cum.  20% branches = 0.42 cum  Labour:  For cutting the tree and removing the roots from the soil and then filling the pit and					
	depression. Beldar Coolie Sundries Total Add for water charges @ 1 % Total Add GST 12% on "X"( multiplying factor	per day per day LS	1.5 0.75 5.46	306.00 318.00 2.12	(0114) (0115) (9999)	459.00 238.50 11.58 709.08 7.09 716.17 X
	0.1405)  Total Add for contractor's profit and over-heads  @ 15% on "y"					100.62 816.79 (` 122.52
D	Cost of 1 tree Add labour cess @ 1%	128 (	D/ V	<b>a</b> -		939.31 9.39 th Edition_2022

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Rate including labour cess			Say	Rs.948.70	948.70 Each
2.34.3	January and the state of the st					
	240 cm girth Details of cost for a tree					
	avg. girth = 180 cm					
	and avg. length = 7 <i>m</i> 22/7x4x0.6x0.6x7 = 1.98 cum					
	20% branches = 0.40 cum/2.38 cum Labour;					
	For cutting the tree and removing (he roots from the soil and then filling the pit and					
	depressions. Beldar	nor dou	7	306.00	(0114)	2142.00
	Coolies	per day per day		318.00	(0115)	1113.00
	Sundries	LS	8.06	2.12	(9999)	17.09
	Total					3272.09
	Add for water charges @ 1 % Total					32.72 3304.81
	Add GST 12% on "X"( multiplying factor					464.33
	0.1405)					
	Add for contractor's profit and over-heads					3769.14 565.37
	@ 15% on "y" Cost of 1 tree					4334.51
	Add labour cess @ 1%					43.35
	Rate including labour cess				Belli commencia di Lon	4377.86
				Say	Rs.4377.90	Per tree
2.34.4	Above 240 cm girth					
	Details of cost for a tree of average 300 cm.	girth				
	and length 10 m 22/4x7x1x1x10 = 7.86 cum					
	20% Branches = 1.57 cum					
	9.43 cum					
	Labour:					
	For cutting the tree and removing the roots fro the soil and then filling the pits and depression					
	Beldar	n. per day	14	306.00	(0114)	4204.00
	Coolies	per day		318.00	(0115)	4284.00 2226.00
	Sundries	LS	26.91	2.12	(9999)	57.05
	Total Add for water charges @ 1 %					6567.05
	Total					65.67
	Add GST 12% on "X"( multiplying factor					6632.72 ) 931.90
	0.1405)					331.30
	Total  Add for contractor's profit and over-heads					7564.62 (
	@ 15% on "y"					1134.69
	Cost of 1 tree				,	8699,31
	Add labour cess @ 1%					86.99
	Rate including labour cess					8786.30
				Say	Rs.8786.30	Per tree
	Supplying chemical emulsion in sealed containers including delivery as specified.					
			2 Br			

No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
2.35.1	Chlorpyriphos/Lindone emulsifiable concentra 20%	te of			1	
	Details of cost of 100 litres					
	Chlorpynphos E.C. 20%	litre	100	150.00	(7022)	45000.00
	Carriage of chemical	quintal	1	16.39	(7022) (2342)	15000.00
	Total	,		Messas To To Market	(2542)	16.39 15016.39
	Add for water charges @ 1%					150.16
	Total					15166.55 X
	Add GST 12% on "X"( multiplying factor 0.1405)					2130.90
	Total					17297.45 (`
	Add for contractor's profit and over-heads @ 15% on "y"					2594.62
	Cost of 100 litres					19892.07
	Cost of 1 litre					198.92
	Add labour cess @ 1%					1.99
	Rate including labour cess					200.91
2.27				Say	Rs.200.90	per litre
2.37.	Diluting and injecting chemical emulsion			THE PARTY IN		
	for POSTCONSTRUCTIONAL anti-termits					
	treatment (including the cost of chemical emulsion)					
2.37.1	Along external wall where the apron is					
	not provided using chemical imulsion @					
	7.5 liters /' sqm of the vertical-surface of					
	the substructure to a depth of 300 mm					
	including excavation channel along the wall & rodding etc. complete Details of cost for 10 metres.					
.37.1.1	With chlorpyriphos/Lindone E.C. 20% with 1% concentration			***		
	Materials:					
	Chlorpyripnos 1% concentration = 10.0x0.30x7 22.5 litres	7.5 =				
	Chlorpyriphos 20% E.C. required 22.5-20 =1.1	25				
	litres	litre	1.125	150.00	(7022)	168.75
-	Labour:				(, 522)	100.73
	Beldar (for excavating channel) rodding in channel spraying the emulsion and refilling the					
	same	per day	0.330	306.00	(0114)	100.98
	Sundries,rent of sprayer etc.	1 time	13.520	2.12	(9999)	28.66
	Total					298.39
	Add for water charges @ 1 % Total				_	2.98
	Add GST 12% on "X"( multiplying factor					301.37 X
	0.1405)					42.34
	Total Add for contractor's profit and over-heads					343.72 (Y
	@ 15% on "y"					51.56
					_	205.07
	Cost of To M					395,27
	Cost of 10 m Cost of 1 m					
	Cost of 1 m					39.53
						0.40
	Cost of 1 m Add labour cess @ 1%			Say	Rs.39.90	

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
2.37.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.55 litres per linear metre including drilling and plugging holes etc.					
2.37.2.1	With chlorpyriphos E.C. 20% with 1% concentration Details of cost for 10 metres.					
	Materials: Chlorpyriphos 1% Concentration = 10x2.25 = 22 litres	.5				
	Chlorpyriphos 20% required 22.5-20 = 1.125 litres	litre	1.125	150.00	(7022)	168.75
	Materials: Beldar (for drilling holes and injecting chemical); Sundries and rent of a sprayer and mortar and	er day	0.40	306.00	(0114)	122.40
	making good the holes Total Add for water charges @ 1 %	LS	35.88	2.12	(9999)	76.07 367.22 3.67
	Total Add GST 12% on "X"( multiplying factor 0.1405)					370.89 52.11
	Total Add for contractor's profit and over-heads @ 15% on "y"					423.00 63.45
	Cost of 10 m Cost of 1 m Add labour cess @ 1%					486.45 48.65 0.49
	Rate including labour cess NOTE:Analysis of rates for other chemicals will similar to above	oe .		Say	Rs.49.10	49.14 per metre
2.37.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole. 300 mm apart including drilling and plugging 12 mm diameter holes with cement mortar 1:2 (1 cement 2 coarse sand) to match the existing floor.					
<u>3</u> 37.3.1	With Chlorpyriphos EC 20% with 1% concentration Details of cost for 9 sqm (3 metrex3 metre)					
	No. of holes-100nos.					
	Materials: Chlorpyrihos 1% required 100x1 litre = 100 litres Chlorpyrihos 1% required 100x1 litre = 100 litres					
	Chlorpyriphos 20% E.C. = 100-20 = 5.0 litres	litre	5.00	150.00	(7022)	750.00
	Labour: (For making holes & spraying) Beldar	er dou	2.00	200.00	(04:1)	6.0.00
	4.4 N. dl	er day er day LS	2.00 0.50 35.88	306.00 369.00 2.12	(0114) (0124) (9999)	612.00 184.50 76.07 1622.57 16.23

No.	Description	Unit	Qty	Rate	Rate Code.	Cost
	Add GST 12% on "X"( multiplying factor 0.1				Code,	Rs. 230.25
	Add for contractor's profit and over-heads	al				1869.05 (Y
	@ 15% on "y"					280.36
	Cost of 9 sqm				_	
	Cost of 1 sqm					2149.40
	Add labour cess @ 1%					238.82 2.39
	Rate including labour cess					241.21
	NOTE: Analysis of rates for other chemicals wiii be similar to above		Say		Rs.241.20	per sqm
2.37.4	Treatment of exisiting masonry usin	n				
	chemical emulision@ one litre per hole a	it				
	300 mm interval including drilling hole	9				
	at 45 degree and plugging them with	h				
	cement mortar 1:2(1 cement:2 coars sand) to the full depth of the hole.	е				
	outld) to the full depth of the noie.					
37.4.1	With chlorpyriphos EC 20% with 1%					
	concentration Details of cost for 10 metres					
	Materials:					
	No. of holes $10.0 + 0.30 = 33.33 - 1 = 34.33$ here	noles				
	Say 34 holes chlorpyriphos 1% concentration required =					
	34x1.0= 34.00 litres					
	chlorpyriphos 20% E.C. required 34.00-20	170				
	litres					
	chlorpyriphos 20% concentrates Labour:	litre	1.7	150.00	(7022)	255.00
	Beldar (for making holes at 45 deg. And					
	spraying the emulsion)		1			
	Mason lind class	per day	0.3	306.00	(0114)	91.80
	Sundries, rent of pump etc.	per day 1 time	0.05 17.94	369.00	(0124)	18.45
	Total	i unie	17.94	2.12	(9999)	38.03
	Add for water charges @ 1 %					403.28 4.03
	Total					407.31 X
1 2	Add GST 12% on "X"( multiplying factor 0.1405)					57.23
	Tota	İ				464.54 (Y
	Add for contractor's profit and over-heads					69.68
	@ 15% on "y" Cost of 10 m				_	
	Cost of 10 m					534.22
	Add labour cess @ 1%					53.42
	Rate including labour cess					0.53
	. Lets morading labour 6655		Sau		Do E4 00	53.95
			Say		Rs.54.00	per m
	NOTE Analysis of rates for other chemicals					

2.37.5 Treatment at points of contact of wood work by chemical emulsion chlordane. (in oil or kerosene based solution)® 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Details of cost for 10 metres

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Item No.	r	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Materials:				•		
	No. of holes 10.0	0.15 = 66.67 + 1 =67.6	37				
	holes Say 68 hole						
		ndone 1 % concentration	on				
	required = 68x0.5						
	Chlorpyriphos/Lir 34.00-20 = 1.70 I	ndone 20% E.C. requir litres	ed litre	1.70	150.00	(7022)	255.00
	Kerosene oil = 34	4.00-1.70 = 32.30 litres	litre	32.30	50.00	(0771)	1615.00
	Materials: Carper	nter 2nd class (For ma	king per day	0.20	369.00	(0112)	73.80
	holes and pluggir					(0.4.4)	0.4.00
	Beldar for injecting	ng chemical	per day	0.20	306.00	(0114)	61.20
	Sundries		1 time	6.90	2.12	(9999) _	14.63
	Total	0.40/					2019.63
	Add for water cha Total	arges @ 1%				_	20.20
		"V"/ multiplying factor					286.60
	0.1405)	n "X"( multiplying factor					200.00
	0.1403)		Total				2326.42
	Add for contracto	r's profit and over-head					348.96
	@ 15% on "y"	r o prome and over mode					0.0.00
	Cost of 10 m					_	2675.39
	Cost of 1 m	1					267.54
	Add labour ces	s @ 1%					2.68
	Rate including I						270.22
	reate including i	laboul cess					270.22
				Say	500	Rs.270.20	per metre
2.38	Deduct for dispo	osed soil not levelled	and neatly dres	sed.			
	Details of cost for	10 cum.					
	LABOUR:						
	Mate		day	0.08	325.00	128	26.00
	Beldar /						
	Cooli		day	8.0	318.00	115	254.40
			DTAL				280.40
		Add Water Charges @					2.80
	444 CCT 400/		DTAL				283.20
		"X"( multiplying factor					39.79
-	0.1405)		Total		•		
	Add for contracto	r's profit and over-head	Total				322.99
	@ 15% on "y"	o prom and over-nead	15				48.45
	@ 1070 on )	Cost of 10	cum			_	074.44
		Cost of 1					371.44
		Add labour cess @					37.14 0.37
	F	Rate including labour ce					37.51
		<del>-</del> .		Say	E	Rs.37.50	um
				Ouy			

& stacking up to any lead (measured stacks will be reduced by 20% for payment).

Details of cost for 1.00 cum.

Ref :- Based on DAR Item No: 1.1.1 A) ii)

Material and carriage

Available free of cost at thermal power plant

1.00

1980

Item No.	Description	Unit	Qty	Rate	Rate Code.	Cost Rs.
	Carriage of flyash	cum	1.00	0.00	2262	0.00
	1st lead 0 to 5 km					
	TOTAL Add Water Charges @ 1%					7.45 0.07
	TOTAL					7.52 X
	Add GST 12% on "X"( multiplying factor 0.1405)					1.06
	Total Add for contractor's profit and over-heads @ 15% on "y"					8.58 ( 1.29
	Cost of 1 cum					9.87
	Add labour cess @ 1%					0.10
	Rate including labour cess					9.97
			Say		Rs.10.00	cum

2.40 Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer – in-charge, including compacting each layer by rolling/ ramming and watering, all complete as per drawing and direction of Engineer -in - charge.

Details of cost for 10 cum.					
Ref :- Based on Item No : 2.25					
LABOUR:					
Mate	day	0.2	325.00	128	65.00
Coolie	day	2.5	318.00	115	795.00
Bhisti	day	0.2	332.00	101	66.40
TOTAL	. 7				926.40
Add Water Charges @ 1%	o o				9.26
TOTAL	-				935.66 X
Add GST 12% on "X"( multiplying factor 0.1405)		, * <sub>1</sub>			131.46
Tota	1 -				1067.12 (Y)
Add for contractor's profit and over-heads  @ 15% on "y"					160.07
Cost of 10 cun	า				1227.19
Cost of 1 cum	า				122.72
Add labour cess @ 1%	6				1.23
Rate including labour cess	5				123.95
		Say		Rs.123.90	cum

\$\frac{1}{2} \frac{1}{2} \frac