

## SUB HEAD: 20.0 PILE WORK

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
20.1	Providing, driving and installing driven cast-in-situ 25 of specified diameter and length below the pile specified, excluding the cost of steel reinforcement	cap, to c	arry safe woi	rking load n	ot less than	
	of pile to be embedded in the pile cap etc. all co		-		_	
	measured from top of shoe to the bottom of pile ca					
20.1.1	400 mm dia piles.					
	Details of cost for 20 metre length of pile.					
	MATERIAL:					
	Concrete $-3.14/4 \times 0.40^2 \times 20 = 2.51$ cum					
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	2.51	5013.23	12583.21 /	Α
	Reinforced cement concrete work					
9999	Sundries	L.S.	521.08	2.12	1104.69	
7181	C.I. pile shoe	kilogram	80	48.00	3840.00	
	@ 80 kg per pile					
7182	M.S. clamps for pile shoe	kilogram	35	43.00	1505.00	
	@ 35 kg per pile					
0024	MACHINERY: Hire and running charges of hydraulic piling rig with					
0024	power unit etc. including complete accessories and					
	shifting at site	day	0.36	35000.00	12600.00	
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00	
0020	LABOUR:	ady	0.00	0000.00	210.00	
	Work supervisor					
0L71	Mistry	day	0.08	388.00	31.04	
0114	Beldar	day	2	306.00	612.00	
	TOTAL	,			32485.94 \	W
	Add Water Charges @ 1% except on A i.e on W-A TOTAL				199.03 32684.96 (	(X)
	Add GST 12% on "X" except on A (multiplying factor					
	0.1405)				2824.30	
	TOTAL				35509.26 (	(Y)
	Add CPOH @ 15% on "Y' except on A i.e on				3438.91	
	Cost of 20 metre				38948.17	
	Cost of 1 metre labour cess @1%				1947.41 19.47	
	Say				1966.90	
20.1.2	450 mm dia piles.				1300.30	
20.1.2	Details of cost for 20 m length of pile.					
	MATERIAL:					
	Concrete $-3.14/4 \times 0.45^2 \times 20 = 3.18$ cum					
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	3.18	5013.23	15942.07 /	Α
	Reinforced cement concrete work					
9999	Sundries	L.S.	392.7	2.12	832.52	
7181	C.I. pile shoe	kilogram	80	48.00	3840.00	
	@ 80 kg per pile					
7182	M.S. clamps for pile shoe	kilogram	35	43.00	1505.00	
	@ 35 kg per pile					
0.4	MACHINERY:	.1	0.40	05000.00	40000 00	
24	Hire and running charges of hydraulic piling	day	0.48	35000.00	16800.00	
	rig with power unit etc. including complete					
25	accessories and shifting at site	dov	0.06	2500.00	210.00	
25	Hire and running charges of light crane LABOUR:	day	0.06	3500.00	210.00	
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Code	Description	Unit	Quantity	Rate ₹	Amount
	Work supervisor				
0L71 114	Mistry Beldar	day	0.08	388.00	31.04
114	TOTAL	day	2	306.00	612.00 39772.63
	Add Water Charges @ 1% except on A i.e on TOTAL				238.31
	Add GST 12% on "X" except on A (multiplying factor 0. TOTAL	1405)			40010.94 (X) 3381.68 43392.62 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on Cost of 20 metre				4117.58 47510.20
	Cost of 1 metre				2375.51
	labour cess @1%				23.76
20.1.3	500 mm dia piles.				2399.30
20.1.3	Details of cost for 20 m length of pile.  MATERIAL:				
5.33.1	Concrete 3.14/4x0.50 <sup>2</sup> x20 = 3.925 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	3.925	5013.23	19676.93 A
9999	Sundries	L.S.	530	2.12	1123.60
7181	C.I. pile shoe	kilogram	80	48	3840.00
	@ 80 kg per pile	3			
7182	M.S. clamps for pile shoe @ 35 kg per pile MACHINERY:	kilogram	35	43	1505.00
24	Hire and running charges of hydraulic piling rig with power unit etc. including complete	day	0.6	35000.00	21000.00
25	accessories and shifting at site Hire and running charges of light crane	day	0.06	3500.00	210.00
	LABOUR: Work supervisor				
0L71	Mistry	day	0.08	388.00	31.04
114	Beldar TOTAL	day	2	306.00	612.00 47998.57
	Add Water Charges @ 1% except on A i.e on TOTAL				283.22 48281.78 (X)
	Add GST 12% on "X" except on A (multiplying factor TOTAL	0.1405)			4018.98 52300.76 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				4893.58
	Cost of 20 metre Cost of 1 metre				57194.34 2859.72
	labour cess @1%				28.60
	Say				2888.30
20.1.4	550 mm dia piles.  Details of cost for 20 m length of pile.				
	MATERIAL:				
5.33.1	Concrete 3.14/4x0.55 <sup>2</sup> x20 = 4.75 cum Rate as per Item Number 5.33.1 of SH:	cum	4.75	5013.23	23812.84 A
0.00.1	Reinforced cement concrete work	00111	0	0010.20	20012.0171
9999	Sundries	L.S.	371.88	2.12	788.39
7181	C.I. pile shoe	kilogram	80.00	48.00	3840.00
7182	<ul><li>@ 80 kg per pile</li><li>M.S. clamps for pile shoe</li></ul>	kilogram	35.00	43.00	1505.00
7102	@ 35 kg per pile MACHINERY:	Kilografii	33.00	43.00	1505.00
24	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	0.60	35000.00	21000.00
		- Br _	_ @m_	0/1	- 8
PCD/20K-	-11" EUIIIO11_2022	17( _	<u> </u>	4/ //	

20.1.5 75  20.1.5 75  M Co 5.33.1 R 9999 Si 7181 C 7182 M 24 Hi rig ac	Hire and running charges of light crane  LABOUR: Work supervisor Mistry Beldar  TOTAL Add Water Charges @ 1% except on A i.e on TOTAL Add GST 12% on "X" except on A (multiplying factor of the contract of th	day day 0.1405)	0.06 0.08 2.00	3500.00 388.00 306.00	₹ 210.00  31.04 612.00 51799.27 279.86 52079.13 (3971.41 56050.54 (4835.66 60886.20 3044.31 30.44 3074.80
OL71 M 114 Be Ad Ad To  20.1.5 75 De M Co 5.33.1 Re 9999 Si 7181 C 7182 M 24 Hi rig ad	Mistry Beldar  TOTAL Add Water Charges @ 1% except on A i.e on  TOTAL Add GST 12% on "X" except on A (multiplying factor of the context of th	day 0.1405)			612.00 51799.27 279.86 52079.13 (3 3971.41 56050.54 (4835.66 60886.20 3044.31 30.44
114 Bo Ad Ad Ad To Ad To Ad Ad To Ad Ad To Ad	TOTAL Add Water Charges @ 1% except on A i.e on  TOTAL Add GST 12% on "X" except on A (multiplying factor of the f	day 0.1405)			612.00 51799.27 279.86 52079.13 (3 3971.41 56050.54 (4835.66 60886.20 3044.31 30.44
20.1.5 75  20.1.5 75  M CG 5.33.1 R: 89999 Si 7181 C 7182 M  M 24 Hi rig	TOTAL Add Water Charges @ 1% except on A i.e on  TOTAL Add GST 12% on "X" except on A (multiplying factor of the f	0.1405)	2.00	306.00	51799.27 279.86 52079.13 (3 3971.41 56050.54 (4835.66 60886.20 3044.31 30.44
20.1.5 75 Di M Co	Add Water Charges @ 1% except on A i.e on  TOTAL  Add GST 12% on "X" except on A (multiplying factor of TOTAL  Add CPOH @ 15% on "Y' except on A i.e on  Cost of 20 metre  Cost of 1 metre  labour cess @ 1%  Say  750 mm dia piles.  Details of cost for 15m length of pile.  MATERIAL:  Concrete 3.14/4x0.75²x20 = 6.62 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Sundries				279.86 52079.13 (2 3971.41 56050.54 (2 4835.66 60886.20 3044.31 30.44
20.1.5 75 Di M Ci 5.33.1 R: 9999 Si 7181 C 00 7182 M 24 Hi riç ac	TOTAL Add GST 12% on "X" except on A (multiplying factor of TOTAL  Add CPOH @ 15% on "Y' except on A i.e on Cost of 20 metre Cost of 1 metre labour cess @ 1% Say 750 mm dia piles. Details of cost for 15m length of pile. MATERIAL: Concrete 3.14/4x0.75²x20 = 6.62 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Sundries				52079.13 (7 3971.41 56050.54 (7 4835.66 60886.20 3044.31 30.44
20.1.5 75 DO M C. 5.33.1 R: 9999 Si 7181 C @ 7182 M @ M 24 Hi riç ac	Add GST 12% on "X" except on A (multiplying factor CTOTAL  Add CPOH @ 15% on "Y' except on A i.e on Cost of 20 metre Cost of 1 metre labour cess @ 1% Say  750 mm dia piles.  Details of cost for 15m length of pile.  MATERIAL: Concrete 3.14/4x0.75²x20 = 6.62 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Sundries				3971.41 56050.54 (' 4835.66 60886.20 3044.31 30.44
5.33.1 R: 9999 Si 7181 C @ 7182 M @ M 24 Hi rig	Cost of 20 metre Cost of 1 metre labour cess @1% Say  750 mm dia piles.  Details of cost for 15m length of pile.  MATERIAL:  Concrete 3.14/4x0.75²x20 = 6.62 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Sundries	cum			60886.20 3044.31 30.44
5.33.1 R: 9999 Si 7181 C @ 7182 M @ M 24 Hi rig	labour cess @1% Say 750 mm dia piles. Details of cost for 15m length of pile. MATERIAL: Concrete 3.14/4x0.75²x20 = 6.62 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Sundries	cum			30.44
5.33.1 R: 9999 Si 7181 C @ 7182 M @ M 24 Hi rig	750 mm dia piles. Details of cost for 15m length of pile. MATERIAL: Concrete 3.14/4x0.75²x20 = 6.62 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Sundries	cum			3074.60
M C C S S S S S S S S S S S S S S S S S	MATERIAL: Concrete 3.14/4x0.75²x20 = 6.62 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Sundries	cum			
5.33.1 R: R: 9999 Si 7181 C @ 7182 M @ M 24 Hi ric	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Sundries	cum			
7181 C @ 7182 M @ M 24 Hi	Reinforced cement concrete work Sundries	cum			
9999 Si 7181 C @ 7182 M @ M 24 Hi rig	Sundries		6.62	5013.23	33187.58 <i>A</i>
7181 C @ 7182 M @ M 24 H rig		L.S.	E70 E7	2.12	1215.97
@ 7182 M @ M 24 Hi riç ad	C.I. pile shoe	L.S. kilogram	573.57 80.00	48.00	3840.00
7182 M @ M 24 Hi riç ad	@ 80 kg per pile	Miogram	00.00	10.00	00 10.00
M 24 Hi riç ad	M.S. clamps for pile shoe	kilogram	35.00	43.00	1505.00
24 H riç ac	@ 35 kg per pile MACHINERY:				
riç ac	Hire and running charges of hydraulic piling	day	0.70	35000.00	24500.00
25 H	rig with power unit etc. including complete accessories and shifting at site	,			
L	Hire and running charges of light crane LABOUR:	day	0.06	3500.00	210.00
	Work supervisor				
	Mistry	day	0.14	388.00	54.32
114 B	Beldar TOTAL	day	3.50	306.00	1071.00
A	Add Water Charges @ 1% except on A i.e on				65583.87 323.96
, ,	TOTAL				65907.83 (2
	Add GST 12% on "X" except on A (multiplying factor (	0.1405)			4597.20 70505.02 (
	Add CPOH @ 15% on "Y' except on A i.e on				5597.62
	Cost of 15 metre				76102.64
	Cost of 1 metre				5073.51
	labour cess @1%				50.74
20.1.6 10	Say 1000 mm dia piles.				5124.20
D	Details of cost for 10m length of pile. MATERIAL:				
5.33.1 R	Concrete 3.14/4x1.00 <sup>2</sup> x10 = 7.85 cum Rate as per Item Number 5.33.1 of SH:	cum	7.85	5013.23	39353.85 A
	Reinforced cement concrete work	1.0	907.90	2.42	1002 F2
	Sundries C.I. pile shoe	L.S. kilogram	897.89 80.00	2.12 48.00	1903.53 3840.00
	© 80 kg per pile	Kilografii	30.00	40.00	3040.00
7182 M @	M.S. clamps for pile shoe @ 35 kg per pile	kilogram	35.00	43.00	1505.00
M		/ •			

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
24	Hire and running charges of hydraulic piling	day	0.68	35000.00	23800.00
	rig with power unit etc. including complete				
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.06	3500.00	210.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.16	388.00	62.08
114	Beldar	day	4.00	306.00	1224.00
	TOTAL				71898.46
	Add Water Charges @ 1% except on A i.e on TOTAL				325.45
		='			72223.90 (> 4618.24
	Add GST 12% on "X" except on A (multiplying factor TOTAL	0.1405)			76842.15 (\
	Add CPOH @ 15% on "Y' except on A i.e on				5623.24
	Cost of 10 metre				82465.39
	Cost of 1 metre				8246.54
	labour cess @1%				82.47
	Say				8329.00
20.1.7	1200 mm dia piles.	•			0020.00
	Details of cost for 9 m length of pile.				
	MATERIAL:				
	Concrete 3.14/4x1.22x9 =10.17cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	10.17	5013.23	50984.54 A
	Reinforced cement concrete work				
9999	Sundries	L.S.	733.37	2.12	1554.74
7181	C.I. pile shoe	kilogram	80	48.00	3840.00
	@ 80 kg per pile				
7182	M.S. clamps for pile shoe	kilogram	35	43.00	1505.00
	@ 35 kg per pile				
	MACHINERY:				
24	Hire and running charges of hydraulic piling	day	0.67	35000.00	23450.00
	rig with power unit etc. including complete				
	accessories and shifting at site				04000
25	Hire and running charges of light crane	day	0.06	3500.00	210.00
	LABOUR:				
01.74	Work supervisor	-l	0.40	200.00	00.04
0L71	Mistry	day	0.18	388.00	69.84
0114	Beldar TOTAL	day	4.5	306.00	1377.00
	Add Water Charges @ 1% except on A i.e on	-			82991.13 320.07
	TOTAL				83311.19 (>
	Add GST 12% on "X" except on A (multiplying factor				4541.89
	TOTAL	0.1403)			87853.09 (\
	Add CPOH @ 15% on "Y' except on A i.e on	1			5530.28
	Cost of 9 metre				93383.37
	Cost of 1 metre				10375.93
	labour cess @1%				103.76
	Say				10479.70
20.1.8	1500 mm dia piles.				
	Details of cost for 9 m length of pile.				
	MATERIAL:				
	Concrete 3.14/4x1.5 <sup>2</sup> x9 =15.90 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	15.90	5013.23	79710.35 A
	Reinforced cement concrete work				
9999	Sundries	L.S.	1113.48	2.12	2360.58
7181	C.I. pile shoe	kilogram	80.00	48.00	3840.00
	@ 80 kg per pile				
			_	/ .	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7182	M.S. clamps for pile shoe	kilogram	35.00	43.00	1505.00
	@ 35 kg per pile				
0.4	MACHINERY:	da	0.77	25000.00	00050.00
24	Hire and running charges of hydraulic piling rig with power unit etc. including complete	day	0.77	35000.00	26950.00
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.10	3500.00	350.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.20	388.00	77.60
0114	Beldar	day	5.00	306.00	1530.00
		TAL			116323.52
	Add Water Charges @ 1% except on A i.e on	TAL			366.13 116689.66
	Add GST 12% on "X" except on A (multiplying fac				5195.59
	TOTAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			121885.25
	Add CPOH @ 15% on "Y' except on A i.e	e on			6326.24
	Cost of 9 m				128211.48
	Cost of 1 m				14245.72
	labour cess @				142.46
20.2	Boring, providing and installing bored cast-in-s	Say		F . C	14388.20
	and length below the pile cap, to carry a safe		-	king load n	ot less than
	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and characteristics.	rcement but appropriate leaded in the pile of tissel technique	including the ngth for settin cap etc.( <u>By pe</u> <u>by tripod</u> and	king load not cost of king out and increasion did mechanic	ot less than poring, with removal of rilling using al Winch all
20 2 1	specified, excluding the cost of steel reinforce bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).	rcement but appropriate leaded in the pile of tissel technique	including the ngth for settin cap etc.( <u>By pe</u> <u>by tripod</u> and	king load not cost of king out and increasion did mechanic	ot less than poring, with removal of rilling using al Winch all
20.2.1	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and characteristic complete, including removal of excavated earth shall be measured upto bottom of pile cap). 300 mm dia piles.	rcement but appropriate leaded in the pile of tissel technique	including the ngth for settin cap etc.( <u>By pe</u> <u>by tripod</u> and	king load not cost of king out and increasion did mechanic	ot less than poring, with removal of rilling using al Winch all
20.2.1	specified, excluding the cost of steel reinforce bentonite solution and temporary casing of a same and the length of the pile to be embedded <u>Direct mud circulation (DMC) or Bailer and charted complete</u> , including removal of excavated earth shall be measured upto bottom of pile cap).	rcement but appropriate leaded in the pile of tissel technique	including the ngth for settin cap etc.( <u>By pe</u> <u>by tripod</u> and	king load not cost of king out and increasion did mechanic	ot less than poring, with removal of rilling using al Winch all
20.2.1	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.	rcement but appropriate leaded in the pile of tissel technique	including the ngth for settin cap etc.( <u>By pe</u> <u>by tripod</u> and	king load not cost of king out and increasion did mechanic	ot less than poring, with removal of rilling using al Winch all
<b>20.2.1</b> 5.33.1	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:	rcement but appropriate leaded in the pile of tissel technique	including the ngth for settin cap etc.( <u>By pe</u> <u>by tripod</u> and	king load not cost of king out and increasion did mechanic	ot less than poring, with removal of rilling using al Winch all
5.33.1	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work	rcement but appropriate lead ed in the pile of isel technique a with all lifts a	including the ngth for setting the for setting the period and the number of the following the following the following the number of the following the number of the number	cing load not cost of body and arcussion do mechanic gth of pile 1	ot less than poring, with removal of rilling using al Winch all for payment
5.33.1 7183	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and chocomplete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite	cum  tonne  tonne	including the ngth for setting the for setting the period and the ngth for setting the ngth f	cing load not cost of be cost of	ot less than poring, with removal of rilling using al Winch all for payment  7068.65
5.33.1	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and character complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries	rcement but appropriate lead ed in the pile of isel technique a with all lifts a	including the ngth for setting the for setting the period and the number of the following the following the following the number of the following the number of the number	cing load not cost of body and arcussion do mechanic gth of pile 1	ot less than poring, with removal of rilling using al Winch all for payment
5.33.1 7183 9999	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and chocomplete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:	cum tonne  L.S.	including the ngth for setting the for setting the period and the ngth for setting the ngth f	cing load not cost of be cost of	ot less than poring, with removal of rilling using al Winch all for payment  7068.65
5.33.1 7183	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:  Hire and running charges of tripod and mechanical	cum tonne  L.S.	including the ngth for setting the for setting the period and the ngth for setting the ngth f	cing load not cost of be cost of	ot less than poring, with removal of rilling using al Winch all for payment  7068.65
5.33.1 7183 9999	specified, excluding the cost of steel reinfold bentonite solution and temporary casing of a same and the length of the pile to be embedded birect mud circulation (DMC) or Bailer and chocomplete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:	cum tonne  L.S.	including the ngth for setting the for setting the period and the ngth for setting the ngth f	cing load not cost of be cost of	ot less than poring, with removal of rilling using al Winch all for payment  7068.65
5.33.1 7183 9999	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:  Hire and running charges of tripod and mechanical Winch machine complete with power unit and accessories  Hire and running charges of light crane	cum tonne  L.S.	including the next for setting the for setting cap etc. (By per by tripod and leads (Lendard 1.41 0.16 289.85	cing load not cost of king out and incussion did mechanic gth of pile 5013.23 2800.00 2.12	ot less than poring, with removal of rilling using all Winch all for payment  7068.65 448.00 614.48
5.33.1 7183 9999 0015 0025 0026	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:  Hire and running charges of tripod and mechanical Winch machine complete with power unit and accessories  Hire and running charges of light crane  Hire and running charges of bentonite pump	cum tonne L.S. day day day day day day	including the negth for setting the for setting the period and the setting tripod and the setting tripod and leads (Lendral 1.41 0.16 289.85 0.72 0.06 0.38	cost of king out and incussion did mechanic of the first of pile of the first of th	ot less than poring, with removal of rilling using at Winch all for payment  7068.65  448.00 614.48  2160.00 210.00 1140.00
5.33.1 7183 9999 0015 0025 0026 0018	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work Bentonite Sundries  MACHINERY: Hire and running charges of tripod and mechanical Winch machine complete with power unit and accessories Hire and running charges of light crane Hire and running charges of bentonite pump Hire and running charges of loader	cum tonne L.S.  day day day day day day day day day da	including the negth for setting the petc. (By per by tripod and and leads (Lendard 1.41 0.16 289.85 0.72 0.06 0.38 0.30	sing load not cost of being out and creussion did mechanic gth of pile state of the	ot less than poring, with removal of rilling using al Winch all for payment  7068.65  448.00 614.48  2160.00 210.00 1140.00 1800.00
5.33.1 7183 9999 0015 0025 0026	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and chromplete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:  Hire and running charges of tripod and mechanical Winch machine complete with power unit and accessories  Hire and running charges of light crane  Hire and running charges of loader  Hire and running charges of loader  Hire and running charges of tipper	cum tonne L.S. day day day day day day	including the negth for setting the for setting the period and the setting tripod and the setting tripod and leads (Lendral 1.41 0.16 289.85 0.72 0.06 0.38	cost of king out and incussion did mechanic of the first of pile of the first of th	ot less than poring, with removal of rilling using at Winch all for payment  7068.65  448.00 614.48  2160.00 210.00 1140.00
5.33.1 7183 9999 0015 0025 0026 0018	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and change complete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:  Hire and running charges of tripod and mechanical Winch machine complete with power unit and accessories  Hire and running charges of light crane  Hire and running charges of bentonite pump  Hire and running charges of loader  Hire and running charges of tipper  LABOUR:	cum tonne L.S.  day day day day day day day day day da	including the negth for setting the petc. (By per by tripod and and leads (Lendard 1.41 0.16 289.85 0.72 0.06 0.38 0.30	sing load not cost of being out and creussion did mechanic gth of pile state of the	ot less than poring, with removal of rilling using al Winch all for payment  7068.65  448.00 614.48  2160.00 210.00 1140.00 1800.00
5.33.1 7183 9999 0015 0025 0026 0018	specified, excluding the cost of steel reinfolia bentonite solution and temporary casing of a same and the length of the pile to be embedded Direct mud circulation (DMC) or Bailer and chromplete, including removal of excavated earth shall be measured upto bottom of pile cap).  300 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete 3.14/4x0.30²x20 = 1.41 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Bentonite  Sundries  MACHINERY:  Hire and running charges of tripod and mechanical Winch machine complete with power unit and accessories  Hire and running charges of light crane  Hire and running charges of loader  Hire and running charges of loader  Hire and running charges of tipper	cum tonne L.S.  day day day day day day day day day da	including the negth for setting the petc. (By per by tripod and and leads (Lendard 1.41 0.16 289.85 0.72 0.06 0.38 0.30	sing load not cost of being out and creussion did mechanic gth of pile state of the	ot less than poring, with removal of rilling using al Winch all for payment  7068.65  448.00 614.48  2160.00 210.00 1140.00 1800.00

TOTAL

Add GST 12% on "X" except on A (multiplying factor 0.1405)

Add CPOH @ 15% on "Y' except on A i.e on

Add Water Charges @ 1% except on A i.e on

Cost of 20 metre

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15224.70

1157.38

1409.25 17872.89

81.56 15306.26 (X)

16463.64 (Y)

**TOTAL** 

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre			<u> </u>	893.64
	labour cess @1%				8.94
	Say				902.60
20.2.2	400 mm dia piles.				
	Details of cost for 20 m length of pile.				
	MATERIAL:				
	Concrete $3.14/4 \times 0.40^2 \times 20 = 2.51 \text{ cum}$		0.54	=0.40.00	10=00.01
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	2.51	5013.23	12583.21
7400	Reinforced cement concrete work		0.00	0000 00	000.00
7183	Bentonite	tonne	0.23	2800.00	630.00
9999	Sundries	L.S.	79.06	2.12	167.61
0045	MACHINERY:				
0015	Hire and running charges of tripod and mechanical				
	Winch machine complete with power unit and	de	0.70	0000 00	0400.00
0005	accessories	day	0.72	3000.00	2160.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.38	3000.00	1140.00
0018	Hire and running charges of loader	day	0.30	6000.00	1800.00
0017	Hire and running charges of tipper	day	0.30	3750.00	1125.00
	LABOUR:				
01.74	Work supervisor	dov	0.40	200.00	4C FC
0L71	Mistry	day	0.12	388.00	46.56
114	Beldar TOTAL	day	2.00	306.00	612.00
					20474.37 78.91
	Add Water Charges @ 1% except on A i.e on TOTAL				
		4.405)			20553.28
	Add GST 12% on "X" except on A (multiplying factor 0 TOTAL	.1405)			1119.80
	Add CPOH @ 15% on "Y' except on A i.e on				21673.08 1363.48
	Cost of 20 metre				23036.56
	Cost of 20 metre				1151.83
	labour cess @1%				11.52
	Say				1163.30
20.2.3	450 mm dia piles.				1100.00
20.2.3	Details of cost for 20 m length of pile.				
	MATERIAL:				
	Concrete $3.14/4 \times 0.45^2 \times 20 = 3.18$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	3.18	5013.23	15942.07
0.00.1	Reinforced cement concrete work	odiii	0.10	0010.20	100 12.07
7183	Bentonite	tonne	0.25	2800.00	700.00
9999	Sundries	L.S.	230.69	2.12	489.06
0000	MACHINERY:	2.0.	200.00		100.00
0015	Hire and running charges of tripod and mechanical				
0010	Winch machine complete with power unit and				
	accessories	day	0.94	3000.00	2820.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.38	3000.00	1140.00
0018	Hire and running charges of loader	day	0.30	6000.00	1800.00
0017	Hire and running charges of loader	day	0.30	3750.00	1125.00
0017	LABOUR:	uay	0.30	3730.00	1125.00
	Work supervisor				
0L71	Mistry	day	0.12	388.00	46.56
0114	Beldar	day	2.50	306.00	765.00
0114	TOTAL	uay	2.00	300.00	25037.69
	Add Water Charges @ 1% except on A i.e on				90.96
	TOTAL				25128.65

Code	Description	Unit	Quantity	Rate ₹	Amount
	Add GST 12% on "X" except on A (multiplying factor	0.1405)			1290.71
	TOTAL				26419.36 (Y
	Add CPOH @ 15% on "Y' except on A i.e on				1571.59
	Cost of 20 metre				27990.96
	Cost of 1 metre				1399.55
	labour cess @1% Say				14.00 <b>1413.50</b>
20.2.4	500 mm dia piles.				1410.00
	Details of cost for 20 m length of pile.  MATERIAL:				
	Concrete $3.14/4 \times 0.50^2 = 3.925$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	3.93	5013.23	19676.93 A
	Reinforced cement concrete work				
7183	Bentonite	tonne	0.28	2800.00	784.00
9999	Sundries	L.S.	87.95	2.12	186.45
	MACHINERY:				
0015	Hire and running charges of tripod and mechanical				
	Winch machine complete with power unit and				
	accessories	day	1.20	3000.00	3600.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.38	3000.00	1140.00
0018	Hire and running charges of loader	day	0.30	6000.00	1800.00
0017	Hire and running charges of tipper	day	0.30	3750.00	1125.00
	LABOUR:				
01.74	Work supervisor		0.40	000.00	40.50
0L71	Mistry	day	0.12	388.00	46.56
114	Beldar	day	2.50	306.00	765.00
	TOTAL				29333.94
	Add Water Charges @ 1% except on A i.e on TOTAL				96.57 29430.51 (X
		0 1405)			1370.38
	Add GST 12% on "X" except on A (multiplying factor TOTAL	0.1403)			30800.89 (Y
	Add CPOH @ 15% on "Y' except on A i.e on				1668.59
	Cost of 20 metre				32469.48
	Cost of 1 metre				1623.47
	labour cess @1%				16.23
	Say				1639.70
20.2.5	600 mm dia piles.				
	Details of cost for 20 m length of pile.  MATERIAL:				
	Concrete 3.14/4x0.60 <sup>2</sup> x20= 5.65 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	5.65	5013.23	28324.75 A
	Reinforced cement concrete work				
7183	Bentonite	tonne	0.33	2800.00	924.00
9999	Sundries	L.S.	317.43	2.12	672.95
	MACHINERY:				
0015	Hire and running charges of tripod and mechanical				
	Winch machine complete with power unit and				
	accessories	day	1.50	3000.00	4500.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.38	3000.00	1140.00
0018	Hire and running charges of loader	day	0.30	6000.00	1800.00
0017	Hire and running charges of tipper	day	0.30	3750.00	1125.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.12	388.00	46.56
0114	Beldar	day	3.00	306.00	918.00
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-1	2 004 9	X	БС	5,001\=11 <sup>~</sup>	_UIUUII _ 2U22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL		· · · · · ·	`	39661.26
	Add Water Charges @ 1% except on A i.e on				113.37
	TOTAL				39774.62 (X)
	Add GST 12% on "X" except on A (multiplying factor CTOTAL	).1405)			1608.71 41383.33 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				1958.79
	Cost of 20 metre				43342.12
	Cost of 20 metre				2167.11
	labour cess @1%				21.67
	Say				2188.80
20.2.6	750 mm dia piles.				2100.00
20.2.0	Details of cost for 15 m length of pile.				
	MATERIAL:				
5 00 d	Concrete $3.14/4 \times 0.75^2 \times 15 = 6.62$ cum		0.00	5040.00	00407.50 A
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	6.62	5013.23	33187.58 A
7183	Bentonite	tonne	0.30	2800.00	840.00
9999	Sundries	L.S.	131.58	2.12	278.95
	MACHINERY:				
0015	Hire and running charges of tripod and mechanical Winch machine complete with power unit and				
	accessories	day	1.40	3000.00	4200.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.75	3000.00	2250.00
0018	Hire and running charges of loader	day	0.30	6000.00	1800.00
0017	Hire and running charges of tipper	day	0.30	3750.00	1125.00
	LABOUR:	•			
	Work supervisor				
0L71	Mistry	day	0.14	388.00	54.32
0114	Beldar	day	3.50	306.00	1071.00
	TOTAL				45016.85
	Add Water Charges @ 1% except on A i.e on				118.29
	TOTAL				45135.14 (X)
	Add GST 12% on "X" except on A (multiplying factor 0	).1405)			1678.63
	TOTAL				46813.77 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				2043.93
	Cost of 15 metre				48857.70
	Cost of 1 metre				3257.18
	labour cess @1%				32.57
	Say				3289.80
20.2A	Boring, providing and installing bored cast-in-situ		-	-	
	and length below the pile cap, to carry a safe cem	ent conc	rete piles work	king load n	ot less than
	specified, excluding the cost of steel reinforcer	nent but	including the	cost of b	ooring, with
	bentonite solution and temporary casing of appro	opriate le	ngth for settir	ng out and	removal of
	same and the length of the pile to be embedde	ed in the	pile cap etc.	(By Crawle	er mounted,

same and the length of the pile to be embedded in the pile cap etc.(By Crawler mounted, telescopic boom hydraulic pilling Rig all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).

## 20.2A.1 600 mm dia piles.

Details of cost for 20 m length of pile.

MATERIAL:

Concrete 3.14/4x0.60<sup>2</sup>x20= 5.65 cum

5.65 5013.23 28324.75 A 5.33.1 Rate as per Item Number 5.33.1 of SH: cum Reinforced cement concrete work 7183 **Bentonite** tonne 0.33 2800.00 924.00 9999 Sundries L.S. 317.43 672.95

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MACHINERY:			• 1	
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and				
	shifting at site	dov	0.75	25000.00	26250.00
0005	· ·	day	0.75	35000.00	26250.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.38	3000.00	1140.00
0018	Hire and running charges of loader	day	0.30	6000.00	1800.00
0017	Hire and running charges of tipper LABOUR:	day	0.30	3750.00	1125.00
	Work supervisor				
0L71	Mistry	day	0.12	388.00	46.56
0114	Beldar	day	3.00	306.00	918.00
	TOTAL				61411.26
	Add Water Charges @ 1% except on A i.e on				330.87
	TOTAL				61742.12 (
	Add GST 12% on "X" except on A (multiplying factor CTOTAL	).1405)			4695.14 66437.26 (
	Add CPOH @ 15% on "Y' except on A i.e on				5716.88
	Cost of 20 metre				72154.14
	Cost of 1 metre				3607.71
	labour cess @1%				36.08
	Say				3643.80
20.2A.2	750 mm dia piles.				
	Details of cost for 15 m length of pile.  MATERIAL:				
	Concrete $3.14/4 \times 0.75^2 \times 15 = 6.62$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	6.62	5013.23	33187.58
0.00.1	Reinforced cement concrete work	Cum	0.02	3013.23	33107.30
7183	Bentonite	tonne	0.3	2800	840.00
		L.S.	131.58	2.12	278.95
9999	Sundries	L.S.	131.36	2.12	276.95
0004	MACHINERY:				
0024	Hire and running charges of hydraulic piling rig with				
	power unit etc. including complete accessories and				
0005	shifting at site	day	0.7	35000.00	24500.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.75	3000.00	2250.00
0018	Hire and running charges of loader	day	0.3	6000.00	1800.00
0017	Hire and running charges of tipper	day	0.3	3750.00	1125.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.14	388.00	54.32
0114	Beldar	day	3.50	306.00	1071.00
	TOTAL				65316.85
	Add Water Charges @ 1% except on A i.e on				321.29
	TOTAL				65638.14 (
	Add GST 12% on "X" except on A (multiplying factor CTOTAL	).1405)			4559.30 70197.44 (
	Add CPOH @ 15% on "Y' except on A i.e on				5551.48
	·				
	Cost of 15 metre				75748.92
	Cost of 1 metre				5049.93
	labour cess @1%				50.50
00.01.	Say				5100.40
20.2A.3	<b>1000 mm dia piles.</b> Details of cost for 10 m length of pile.				
	MATERIAL:				
	Concrete $3.14/4x1.00^2x10 = 7.85$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	7.85	5013.23	39353.85
	Reinforced cement concrete work	,			
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<i>y</i>		/ /1		D/C/D 44*h	L4:4:00 0000

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7183	Bentonite	tonne	0.35	2800.00	980.00
9999	Sundries	L.S.	175.89	2.12	372.89
	MACHINERY:				
0024	Hire and running charges of hydraulic piling rig with				
	power unit etc. including complete accessories and	_			
	shifting at site	day	0.69	35000.00	24150.00
0025	Hire and running charges of light crane	day	0.06	3500.00	210.00
0026	Hire and running charges of bentonite pump	day	0.75	3000.00	2250.00
0018	Hire and running charges of loader	day	0.4	6000.00	2400.00
0017	Hire and running charges of tipper	day	0.4	3750.00	1500.00
	LABOUR:				
01.74	Work supervisor		0.40	000	00.00
0L71	Mistry	day	0.16	388	62.08
114	Beldar	day	4	306	1224.00
	TOTAL				72502.82
	Add Water Charges @ 1% except on A i.e on TOTAL				331.489668 72834.31 (
		1405)			4704.00
	Add GST 12% on "X" except on A (multiplying factor 0 TOTAL	.1405)			77538.31 (
	Add CPOH @ 15% on "Y' except on A i.e on				5727.67
	Cost of 10 metre				83265.98
	Cost of 10 metre				8326.60
	labour cess @1%				83.27
	Say				8409.90
20.2A.4	<b>1200 mm dia piles.</b> Details of cost for 9 m length of pile.				
	MATERIAL:				
	Concrete $3.14/4x1.20^2x9 = 10.17$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	10.17	5013.23	50984.54
	Reinforced cement concrete work				40=0.00
7183	Bentonite	tonne	0.385	2800.00	1078.00
9999	Sundries	L.S.	290.79	2.12	616.47
0024	MACHINERY:				
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and				
	shifting at site	day	0.67	35000.00	23450.00
0025	Hire and running charges of light crane	day	0.07	3500.00	23430.00
0025	Hire and running charges of light crafte  Hire and running charges of bentonite pump	day day	0.75	3000.00	2250.00
0020	Hire and running charges of loader	day	0.75	6000.00	3000.00
0017	Hire and running charges of fipper	day	0.5	3750.00	1875.00
0017	LABOUR:	uay	0.5	3730.00	1075.00
	Work supervisor				
0L71	Mistry	day	0.18	388	69.84
114	Beldar	day	4.5	306	1377.00
	TOTAL	aay		000	84910.86
	Add Water Charges @ 1% except on A i.e on				339.263148
	TOTAL				85250.12 (
	Add GST 12% on "X" except on A (multiplying factor 0	.1405)			4814.31
					90064.43 (
	TOTAL				
	TOTAL Add CPOH @ 15% on "Y' except on A i.e on				5861.98
	TOTAL Add CPOH @ 15% on "Y' except on A i.e on Cost of 9 metre				5861.98 95926.42
	TOTAL Add CPOH @ 15% on "Y' except on A i.e on				5861.98

20.2A.5 1500 mm dia piles.

Details of cost for 9 m length of pile.

MATERIAL:

BCD/SOR\_11<sup>th</sup> Edition\_ 2022

PX 667 2 B 0 9 A 3

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Concrete $3.14/4x1.50^2x9 = 15.90$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	15.90	5013.23	79710.35 A
	Reinforced cement concrete work				
7183	Bentonite	tonne	0.45	2800.00	1260.00
9999	Sundries	L.S.	593.48	2.12	1258.18
	MACHINERY:				
0024	Hire and running charges of hydraulic piling rig with				
	power unit etc. including complete accessories and				
	shifting at site	day	0.77	35000.00	26950.00
0025	Hire and running charges of light crane	day	0.10	3500.00	350.00
0026	Hire and running charges of bentonite pump	day	0.96	3000.00	2880.00
0018	Hire and running charges of loader	day	0.75	6000.00	4500.00
0017	Hire and running charges of tipper	day	0.75	3750.00	2812.50
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.25	388.00	97.00
114	Beldar	day	5.00	306.00	1530.00
	TOTAL				121348.02
	Add Water Charges @ 1% except on A i.e on				416.38
	TOTAL				121764.40 (X)
	Add GST 12% on "X" except on A (multiplying factor (	0.1405)			5908.59
	TOTAL				127673.00 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				7194.40
	Cost of 9 metre				134867.39
	Cost of 1 metre				14985.27
	labour cess @1%				149.85
	Say				15135.10
20.3	Boring with hydraulic piling rigs with power units	s. Providi	ng and install	ling cast in	situ sinale

20.3 Boring,with hydraulic piling rigs with power units, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified,excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap):

## 20.3.1 300 mm dia piles.

Details of cost for 10 metres.

MATERIAL:

R.C.C

Stem  $-3.14/4x(0.30)^2x9.625 = 0.680$  cum Bulb  $-3.14/4x(0.75)^2x0.075 = 0.033$  cum

 $2x \ 3.14/4x(0.525)^2x0.150 = 0.065 \text{ cum}$ 

	=0.778 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	0.78	5013.23	3900.29 A
	Reinforced cement concrete work				
7183	Bentonite	tonne	0.08	2800.00	224.00
9999	Sundries	L.S.	410.90	2.12	871.11
	MACHINERY:				
24	Hire and running charges of hydraulic piling	day	0.36	35000.00	12600.00
	rig with power unit etc. including complete				
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.03	3500.00	105.00
26	Hire and running charges of bentonite pump	day	0.02	3000.00	60.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.08	388.00	31.04
114	Beldar	day	2.00	306.00	612.00

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TOTAL
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BCD/SOR\_11th Edition\_2022

18403.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1% except on A i.e on		•		145.03
	TOTAL				18548.47
	Add GST 12% on "X" except on A (multiplying factor				2059.07
	0.1405) TOTAL				2058.07 20606.54
	Add CPOH @ 15% on "Y' except on A i.e on				2505.94
	Cost of 10 metre				23112.48
	Cost of 1 metre				2311.25
	labour cess @1%				23.11
	Say				2334.40
20.3.2	400 mm dia piles.				
	Details of cost for 10 metres.  MATERIAL:				
	R.C.C				
	Stem $-3.14/4x(0.40)^2x9.30 = 1.169$ cum				
	Bulb $-3.14/4x(1.00)^2x0.1 = 0.079$ cum				
	$2x \ 3.14/4x(0.7)^2x0.30 = 0.23 \text{ cum}$				
	= 1.478 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	1.48	5013.23	7409.55
7400	Reinforced cement concrete work	4	0.45	0000 00	400.00
7183 9999	Bentonite Sundries	tonne L.S.	0.15 276.82	2800.00 2.12	420.00 586.86
9999	MACHINERY:	L.J.	270.02	2.12	360.60
24	Hire and running charges of hydraulic piling	day	0.36	35000.00	12600.00
	rig with power unit etc. including complete				
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.06	3500.00	210.00
26	Hire and running charges of bentonite pump	day	0.02	3000.00	60.00
	LABOUR:				
0L71	Work supervisor Mistry	day	0.08	388.00	31.04
114	Beldar	day	2.00	306.00	612.00
	TOTAL	aay	2.00	000.00	21929.45
	Add Water Charges @ 1% except on A i.e on				145.20
	TOTAL				22074.65
	Add GST 12% on "X" except on A (multiplying factor 0	.1405)			2060.45
	TOTAL				24135.10
	Add CPOH @ 15% on "Y' except on A i.e on Cost of 10 metre				2508.83 26643.93
	Cost of 1 metre				2664.39
	labour cess @1%				26.64
	Say				2691.00
20.3.3	450 mm dia piles.				
	Details of cost for 10 metres.				
	MATERIAL:				
	R.C.C				
	Stem -3.14/4x(0.45) <sup>2</sup> x9.212 = 1.465 cum Bulb -3.14/4x(1.125) <sup>2</sup> x0.113 = 0.112 cum				
	2x 3.14/4x(0.788) <sup>2</sup> x0.337 =0.329 cum				
	= 1.906 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	1.91	5013.23	9555.22
	Reinforced cement concrete work				
7183	Bentonite	tonne	0.19	2800.00	532.00
9999	Sundries	L.S.	194.81	2.12	413.00
0.4	MACHINERY:	ماد	0.00	25000.00	40000 00
24	Hire and running charges of hydraulic piling rig with power unit etc. including complete	day	0.36	35000.00	12600.00
	accessories and shifting at site				
	acceptance and ormany at one		_	/ .	_

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
25	Hire and running charges of light crane	day	0.06	3500.00	210.00
26	Hire and running charges of bentonite pump	day	0.02	3000.00	60.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.08	388.00	31.04
114	Beldar	day	2.00	306.00	612.00
	TOTAL				24013.25
	Add Water Charges @ 1% except on A i.e on TOTAL				144.58 24157.83 (X)
	Add GST 12% on "X" except on A (multiplying factor 0	1405)			2051.67
	TOTAL	.1400)			26209.50 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				2498.14
	Cost of 10 metre				28707.64
	Cost of 1 metre				2870.76
	labour cess @1%				28.71
	Say				2899.50
20.3.4	550 mm dia piles.				
	Details of cost for 10 metres.				
	MATERIAL:				
	R.C.C				
	Stem $-3.14/4x(0.50)^2x9.125 = 1.792$ cum				
	Bulb $-3.14/4x(1.25)^2x0.125 = 0.153$ cum				
	$2x 3.14/4x(0.875)^2x0.375 = 0.451 \text{ cum}$				
E 22.4	= 2.396 cum	0.1.00	0.40	E042.00	10001 7F A
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	2.40	5013.23	12031.75 A
7183	Bentonite	tonne	0.20	2800.00	560.00
9999	Sundries	L.S.	208.15	2.12	441.28
3333	MACHINERY:	L.O.	200.13	2.12	441.20
24	Hire and running charges of hydraulic piling	day	0.36	35000.00	12600.00
	rig with power unit etc. including complete	<i>y</i>	0.00	00000.00	000.00
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.06	3500.00	210.00
26	Hire and running charges of bentonite pump	day	0.02	3000.00	60.00
	LABOUR:				
	Work supervisor				
0L71	Mistry	day	0.08	388.00	31.04
114	Beldar	day	2.00	306.00	612.00
	TOTAL				26546.07
	Add Water Charges @ 1% except on A i.e on				145.14
	TOTAL	1405)			26691.21 (X)
	Add GST 12% on "X" except on A (multiplying factor CTOTAL	. 1405)			2059.65 28750.87 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				2507.87
	Cost of 10 metre				31258.73
	Cost of 1 metre				3125.87
	labour cess @1%				31.26
	Say				3157.10
	,				

20.3A.1 Making 25 cm (10") dia bore up to 4 mtr depth below ground with hand auger of approved quality in ordinary soi! (vide classification of soil item A) true to plumb and without eccentri city in any stage of operation and disposal of the excavated earth up to 50 mtr , Lead in eluding all lifts , all complete as per approved disign and direction of E/I Details of cost for 4 piles of 4 m= 16 mtrs depth)

Materials:

(0L71) (i)Skilled labour for queding auger

per day 1 388.00 388.00 670 BCD/SOR\_11<sup>th</sup> Edition\_ 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
(101)	(ii)Semi skilled labour for cutting barih by hand auger	per day	4	332.00	1328.00
(0L01)	(iii)Unskilled labour for carrying water	per day	1.00	306.00	306.00
(9999)	Hire charge and sundries L.S.	1 time	52.00	2.12	110.24
	Total				2132.24
	Add Water Charges @ 1% TOTAL				21.3224 2153.56 (X
	Add GST 12% on "X" (multiplying factor 0.1405)				302.58
	TOTAL				2456.14 (Y
	Add for contractors profit and over-heads @ 15%				368.42
	Cost of 16 meter				2824.56
	Cost of 1 meter				176.53
	Add labour cess @ 1%				1.77
	Rate including labour cess		0	470 200	178.30
20.24.2	63 CM (25) UNDER -REAM Making 63 cm (25) dia un	dor room	Say	178.300	per meter
20.3A.2	approved quality in ordinary soil (vide classification				
	eccentri city in my stage of opration and disposal o		,	•	
	eluding all lifts , all complete as per approved desig			p 10 00 11110	iouu iii
	Details of cost for: Assuming 15 Nos reams				
(01 = 4)	Materials:		4.00		000 00
(0L71)	(i)Skilled labour for queding auger	per day	1.00	388.00	388.00
(101) (0L01)	(ii)Semi skilled labour for cutting barth by hand auger (iii)Unskilled labour for carrying water	per day per day	4.00 1.00	332.00 306.00	1328.00 306.00
(9999)	Hire charge and sundries L.S.	1 time	52.00	2.12	110.24
(5555)	Time orlarge and sandries E.G.	i tiirio	02.00	2.12	2132.24
	Add Water Charges @ 1% TOTAL				21.3224 2153.56 (X
	Add GST 12% on "X" (multiplying factor 0.1405) TOTAL				302.58 2456.14 (Y
	Add for contractors profit and over-heads @ 15%				368.42
	Cost of 15 each				2824.56
	Cost of 1 each				188.30
	Add labour cess @ 1% Rate including labour cess				1.88 190.19
	Trate including labour cess		Say	190.200	each
20.4	Extra for providing additional bulb in under reamed	piles, und	•		
	quantity of extra bulbs are to be paid).				
20.4.1	300 mm dia piles.  Details of cost for 1 bulb.				
	MATERIAL:				
	Bulb - 0.033 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	0.033	5013.23	165.44 A
	Reinforced cement concrete work		0.000		
7183	Bentonite	tonne	0.003	2800.00	8.40
	MACHINERY:				
24	Hire and running charges of hydraulic piling rig with power unit etc. including complete	day	0.02	35000.00	700.00
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.01	3500.00	
26	Hire and running charges of bentonite pump	day	0.01	3000.00	30.00
	LABOUR: Work supervisor				
0L71	Mistry	day	0.02	388.00	7.76
114	Beldar	day	1	306.00	
	TOTAL	,			1252.60
	Add Water Charges @ 1% except on A i.e on		_	,	10.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL		ļ		1263.47 (X)
	Add GST 12% on "X" except on A (multiplying factor TOTAL				154.27 1417.74 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				187.85
	Cost of each				1605.59
	labour cess @1%				16.06 <b>1621.60</b>
20.4.2	400 mm dia piles.				1021.00
	Details of cost for 1 bulb.				
	MATERIAL:				
	Bulb - 0.063 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH: Reinforced cement concrete work	cum	0.06	5013.23	315.83 A
7183	Bentonite	tonne	0.01	2800.00	16.80
7 103	MACHINERY:	torine	0.01	2000.00	10.00
24	Hire and running charges of hydraulic piling	day	0.02	35000.00	700.00
	rig with power unit etc. including complete				
0.5	accessories and shifting at site		0.04	0500.00	05.00
25 26	Hire and running charges of light crane Hire and running charges of bentonite pump	day	0.01	3500.00	35.00
20	LABOUR:	day	0.01	3000.00	30.00
	Work supervisor				
130	Mistry	day	0.02	388.00	7.76
114	Beldar	day	1.00	306.00	306.00
	TOTAL				1411.39
	Add Water Charges @ 1% except on A i.e on				10.96
	TOTAL Add GST 12% on "X" except on A (multiplying factor (	1405)			1422.35 (X) 155.47
	TOTAL	7.1400)			1577.81 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				189.30
	Cost of each				1767.11
	labour cess @1%				17.67
20.4.3	450 mm dia piles.				1784.80
20.4.3	Details of cost for 1 bulb.				
	MATERIAL:				
	Bulb-0.081 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	0.08	5013.23	406.07 A
74.00	Reinforced cement concrete work		0.04	0000 00	00.40
7183	Bentonite MACHINERY:	tonne	0.01	2800.00	22.40
24	Hire and running charges of hydraulic piling	day	0.02	35000.00	700.00
	rig with power unit etc. including complete	y	0.02	00000.00	. 55.55
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.01	3500.00	35.00
26	Hire and running charges of bentonite pump	day	0.01	3000.00	30.00
	LABOUR: Work supervisor				
130	Mistry	day	0.02	388.00	7.76
114	Beldar	day	1.00	306.00	306.00
	TOTAL				1507.23
	Add Water Charges @ 1% except on A i.e on				11.01
	TOTAL Add GST 12% on "X" except on A (multiplying factor (	1405)			1518.24 (X) 156.26
	TOTAL	). I <del>T</del> UU)			1674.50 (Y)
	Add CPOH @ 15% on "Y' except on A i.e on				190.26
	Cost of each				1864.77
	labour cess @1%				18.65
	Say	/ •	_		1883.40
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Code	Description	Unit	Quantity	Rate	Amount
20.4.4		0	Quantity	₹	₹
20.4.4	550 mm dia piles.  Details of cost for 1 bulb.				
	MATERIAL:				
	Bulb-0.102 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	0.10	5013.23	511.35
	Reinforced cement concrete work				
7183	Bentonite	tonne	0.01	2800.00	28.00
	MACHINERY:				
24	Hire and running charges of hydraulic piling	day	0.02	35000.00	700.00
	rig with power unit etc. including complete	,			
	accessories and shifting at site				
25	Hire and running charges of light crane	day	0.01	3500.00	35.00
26	Hire and running charges of bentonite pump	day	0.02	3000.00	60.00
	LABOUR:	-			
	Work supervisor				
130	Mistry	day	0.02	388.00	7.76
114	Beldar	day	1.00	306.00	306.00
	TOTAL	-			1648.11
	Add Water Charges @ 1% except on A i.e or	ı			11.37
	TOTAL	-			1659.48
	Add GST 12% on "X" except on A (multiplying factor	0.1405)			161.31
	TOTAL				1820.79
	Add CPOH @ 15% on "Y' except on A i.e or				196.42
	Cost of each				2017.20
	labour cess @1%				20.17
20.5	Sa				2037.40
	Providing, driving (with vibrating pile driving han and installing driven Pre-cast reinforced cement	concrete p	iles of speci	fied diamete	r and length
	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carr a central through preformed hole with M.S. blac sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, d lifting casing etc. complete but excluding the c payment shall be measured from top of the	concrete p y safe work k pipe of c d) under s riving and	iles of specificiting load not lia, 40 mm foufficient posternoving the	fied diameter less than spor grouting visitive pressure e steel casin	r and length pecified with with cement re to ensure ng pipe and
20.5.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra central through preformed hole with M.S. blacks and grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).	concrete p y safe work k pipe of c d) under s riving and	iles of specificiting load not lia, 40 mm foufficient posternoving the	fied diameter less than spor grouting visitive pressure e steel casin	r and length pecified with with cement re to ensure ng pipe and
20.5.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra central through preformed hole with M.S. blacks and grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, d lifting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).	concrete p y safe work k pipe of c d) under s riving and	iles of specificiting load not lia, 40 mm foufficient posternoving the	fied diameter less than spor grouting visitive pressure e steel casin	r and length pecified with with cement re to ensure ng pipe and
20.5.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.	concrete p y safe work k pipe of c d) under s riving and	iles of specificiting load not lia, 40 mm foufficient posternoving the	fied diameter less than spor grouting visitive pressure e steel casin	r and length pecified with with cement re to ensure ng pipe and
20.5.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. blacks and grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:	concrete p y safe work k pipe of c d) under s riving and	iles of specificiting load not lia, 40 mm foufficient posternoving the	fied diameter less than spor grouting visitive pressure e steel casin	r and length pecified with with cement re to ensure ng pipe and
20.5.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carr a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum	concrete p y safe work k pipe of c d) under s riving and ost of stee	iles of specificing load not lia, 40 mm foufficient postremoving the reinforcem	fied diameter less than spor grouting visitive pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for
<b>20.5.1</b> 5.33.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carr a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:	concrete p y safe work k pipe of c d) under s riving and	iles of specificiting load not lia, 40 mm foufficient posternoving the	fied diameter less than spor grouting visitive pressure e steel casin	r and length pecified with with cement re to ensure ng pipe and
	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work	concrete p y safe work k pipe of c d) under s riving and ost of stee	iles of specificing load not lia, 40 mm foufficient postremoving the reinforcem	fied diameter less than spor grouting visitive pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for
5.33.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add	concrete p y safe work k pipe of c id) under s riving and ost of stee	iles of specificiting load not lia, 40 mm for ufficient posteremoving the reinforcem	fied diameter less than spor grouting visitive pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21
	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carr a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:	concrete p y safe work k pipe of c d) under s riving and ost of stee	iles of specificing load not lia, 40 mm foufficient postremoving the reinforcem	fied diameter less than spor grouting visitive pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for
5.33.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, d lifting casing etc. complete but excluding the c payment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work	concrete p y safe work k pipe of c id) under s riving and ost of stee	iles of specificiting load not lia, 40 mm for ufficient posteremoving the reinforcem	fied diameter less than spor grouting visitive pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21
5.33.1 5.19	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. blacks and grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct	concrete p y safe work k pipe of c id) under s riving and ost of stee	iles of specificing load not lia, 40 mm foufficient postremoving the reinforcem	fied diameter less than spor grouting value pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49
5.33.1	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:	concrete p y safe work k pipe of c id) under s riving and ost of stee	iles of specificiting load not lia, 40 mm for ufficient posteremoving the reinforcem	fied diameter less than spor grouting visitive pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21
5.33.1 5.19	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work	concrete p y safe work k pipe of c id) under s riving and ost of stee	iles of specificing load not lia, 40 mm foufficient postremoving the reinforcem	fied diameter less than spor grouting value pressure e steel casinent. (Length	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49
5.33.1 5.19 5.1.3	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum	iles of specificient lost removing the reinforcem  2.51  2.51	fied diameter less than spor grouting vitive pressure steel casinent. (Length 5013.23 8571.91 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22
5.33.1 5.19 5.1.3 2111	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout  Rate as per Item Number 3.7 of SH: Mortars	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum	iles of specifician load not lia, 40 mm foufficient postremoving the reinforcem  2.51  2.51  -2.51	fied diameter less than spor grouting witive pressure steel casinent. (Length 5013.23 8571.91 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22
5.33.1 5.19 5.1.3 2111 9999	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, defitting casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout  Rate as per Item Number 3.7 of SH: Mortars  Sundries	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum  cum  cum  cum	iles of specifician load not lia, 40 mm for ufficient postremoving the reinforcem 2.51  2.51  2.51  0.03 442.00	fied diameters less than spor grouting witive pressure steel casinent. (Length 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22 90.05 937.04
5.33.1 5.19 5.1.3 2111	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement: 2 coarse sand complete filling including centring, shuttering, describing casing etc. complete but excluding the compayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout  Rate as per Item Number 3.7 of SH: Mortars  Sundries  C.I. pile shoe	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum	iles of specifician load not lia, 40 mm foufficient postremoving the reinforcem  2.51  2.51  -2.51	fied diameter less than spor grouting witive pressure steel casinent. (Length 5013.23 8571.91 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22
5.33.1 5.19 5.1.3 2111 9999 7181	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout  Rate as per Item Number 3.7 of SH: Mortars  Sundries  C.I. pile shoe  @ 80 kg per pile	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum  cum  cum  kilogram	iles of specificial specification in the contract of the contr	fied diameters less than spor grouting witive pressure steel casinent. (Length 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22 90.05 937.04 3840.00
5.33.1 5.19 5.1.3 2111 9999	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement : 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout  Rate as per Item Number 3.7 of SH: Mortars  Sundries  C.I. pile shoe  @ 80 kg per pile  M.S. clamps for pile shoe	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum  cum  cum  cum	iles of specifician load not lia, 40 mm for ufficient postremoving the reinforcem 2.51  2.51  2.51  0.03 442.00	fied diameters less than spor grouting witive pressure steel casinent. (Length 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22 90.05 937.04
5.19 5.1.3 2111 9999 7181	and installing driven Pre-cast reinforced cement below the pile cap in M-25 cement concrete to carra a central through preformed hole with M.S. black sand grouting of mix 1:2 (1cement: 2 coarse sar complete filling including centring, shuttering, diffting casing etc. complete but excluding the copayment shall be measured from top of the shoe to the bottom of pile cap).  400 mm dia piles.  Details of cost for 20 m length of pile.  MATERIAL:  Concrete -3.14/4x(0.40)²x20 = 2.51 cum  Rate as per Item Number 5.33.1 of SH:  Reinforced cement concrete work  Add  Rate as per Item Number 5.19 of SH:  Reinforced cement concrete work  Deduct  Rate as per Item Number 5.1.3 of SH:  Reinforced concrete work  Cement mortar 1:2 for grout  Rate as per Item Number 3.7 of SH: Mortars  Sundries  C.I. pile shoe  @ 80 kg per pile	concrete p y safe work k pipe of c d) under s riving and ost of stee  cum  cum  cum  cum  kilogram	iles of specificial specification in the contract of the contr	fied diameters less than spor grouting witive pressure steel casinent. (Length 4190.53	r and length pecified with with cement re to ensure ng pipe and n of pile for 12583.21 21515.49 -10518.22 90.05 937.04 3840.00

Hire and running charges of vibrating pile

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	Description	Unit	Quantity	Rate ₹	Amount ₹
	driving hammer complete with power unit				
28	and accessories  Hire and running charges of crane 20 tonne	day	0.06	7000.00	420.00
20	capacity	uay	0.00	7000.00	420.00
	LABOUR:				
	Work supervisor				
130	Mistry	day	0.12	388.00	46.56
114	Beldar	day	3.00	306.00	918.00
114	TOTAL "A"	uay	3.00	300.00	23580.48
	TOTAL				
	_				42737.13
	Add Water Charges @ 1% except on A i.e on				191.57
	TOTAL	1405)			42928.70 2718.42
	Add GST 12% on "X" except on A (multiplying factor (	).1405)			
	TOTAL A LLOPOU @ 45%				45647.12
	Add CPOH @ 15% except on A i.e on				3310.00
	Cost of 20 metre				48957.12
	Cost of 1 metre				2447.86
	labour cess @1%				24.48
	Say				2472.30
20.5.2	450 mm dia piles.				
	Details of cost for 20 m length of pile.				
	MATERIAL:				
	Concrete $-3.14/4x(0.45)^2x20 = 3.18$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	3.18	5013.23	15942.07
	Reinforced cement concrete work				
	Add				
5.19	Rate as per Item Number 5.19 of SH:	cum	3.18	8571.91	27258.67
	Reinforced cement concrete work				
	Deduct				
5.1.3	Rate as per Item Number 5.1.3 of SH:	cum	-3.18	4190.53	-13325.87
	Reinforced cement concrete work				
	Cement mortar 1:2 for grout				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.03	3601.99	90.05
9999	Wooden block @ 1 block per two piles	L.S.	442.00	2.12	937.04
7181	C.I. pile shoe	kilogram	80.00	48.00	3840.00
	@ 80 kg per pile	Ü			
7182	M.S. clamps for pile shoe	kilogram	35.00	43.00	1505.00
	@ 35 kg per pile	3 3			
	MACHINERY:				
27	Hire and running charges of vibrating pile	day	0.38	30000.00	11400.00
	driving hammer complete with power unit		0.00	00000.00	
	and accessories				
28	Hire and running charges of crane 20 tonne	day	0.06	7000.00	420.00
	capacity	aay	0.00	. 000.00	120.00
	LABOUR:				
	Work supervisor				
130	Mistry	day	1.08	388.00	419.04
114	Beldar	day	10.78	306.00	3298.68
114	TOTAL "A"	uay	10.76	300.00	29874.87
	TOTAL				51784.68
					219.10
	Add Water Charges @ 1% except on A i.e on TOTAL				52003.78
	Add GST 12% on "X" except on A (multiplying factor (	1405)			3109.11
	TOTAL	J. 1403)			55112.89
	Add CPOH @ 15% except on A i.e on				3785.70
	Cost of 20 metre				58898.59
	Cost of 1 metre				2944.93
	labour cess @1%				29.45
_ ~	Say	/ •	<i>a</i>		2974.40
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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
20.5.3	500 mm dia piles.				
	Details of cost for 20 m length of pile.				
	MATERIAL:				
	Concrete $-3.14/4x(0.50)^2x20 = 3.925$ cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	3.925	5013.23	19676.93
	Reinforced cement concrete work				
	Add				
5.19	Rate as per Item Number 5.19 of SH:	cum	3.925	8571.909	33644.74
	Reinforced cement concrete work				
	Deduct				
5.1.3	Rate as per Item Number 5.1.3 of SH:	cum	-3.925	4190.53	-16447.81
	Reinforced cement concrete work				
	Cement mortar 1:2 for grout				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	3601.99	90.05
9999	Wooden block @ 1 block per two piles	L.S.	442	2.12	937.04
7181	C.I. pile shoe	kilogram	80	48	3840.00
	@ 80 kg per pile				
7182	M.S. clamps for pile shoe	kilogram	35	43	1505.00
	@ 35 kg per pile				
	MACHINERY:				
27	Hire and running charges of vibrating pile	day	0.38	30000.00	11400.00
	driving hammer complete with power unit				
	and accessories				
28	Hire and running charges of crane 20 tonne	day	0.06	7000.00	420.00
	capacity				
	LABOUR:				
	Work supervisor				
130	Mistry	day	0.12	388	46.56
114	Beldar	day	3	306	918.00
	TOTAL "A"				36873.86
	TOTAL				56030.51
	Add Water Charges @ 1% except on A i.e on				191.57
	TOTAL				56222.07
	Add GST 12% on "X" except on A (multiplying factor (	).1405)			2718.42
	TOTAL				58940.50
	Add CPOH @ 15% except on A i.e on				3310.00
	Cost of 20 metre				62250.49
	Cost of 1 metre				3112.52
	labour cess @1%				31.13
00 = 4	Say				3143.60
20.5.4	550 mm dia piles.				
	Details of cost for 20 m length of pile.				
	MATERIAL:				
E 00 4	Concrete $-3.14/4x(0.55)^2x20 = 4.75$ cum		4.75	5040.00	00040.0
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	4.75	5013.23	23812.84
	Reinforced cement concrete work				
F 40	Add		4.75	0574.04	40740 5
5.19	Rate as per Item Number 5.19 of SH:	cum	4.75	8571.91	40716.57
	Reinforced cement concrete work				
E 4 0	Deduct	011100	4.75	4400 F2	10001.00
5.1.3	Rate as per Item Number 5.1.3 of SH:	cum	-4.75	4190.53	-19904.99
	Reinforced cement concrete work				
0.7	Cement mortar 1:2 for grout		0.005	0004.00	00.00
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	3601.99	90.05
9999	Wooden block @ 1 block per two piles	L.S.	442	2.12	937.04
7181	C.I. pile shoe	kilogram	80	48.00	3840.00
	@ 80 kg per pile				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7182	M.S. clamps for pile shoe	kilogram	35	43.00	1505.00
	@ 35 kg per pile				
	MACHINERY:				
27	Hire and running charges of vibrating pile	day	0.38	30000.00	11400.00
	driving hammer complete with power unit				
	and accessories				
28	Hire and running charges of crane 20 tonne	day	0.06	7000.00	420.00
	capacity				
	LABOUR:				
120	Work supervisor	dov	0.12	200	46.56
130 114	Mistry Beldar	day day	0.12 3	388 306	918.00
114	TOTAL "A"	uay	3	300	44624.41
	TOTAL				63781.06
	Add Water Charges @ 1% except on A i.e on				191.57
	TOTAL				63972.63
	Add GST 12% on "X" except on A (multiplying factor (	0 1405)			2718.42
	TOTAL	0.1.100)			66691.05
	Add CPOH @ 15% except on A i.e on				3310.00
	Cost of 20 metre				70001.05
	Cost of 1 metre				3500.05
	labour cess @1%				35.00
	Say				3535.10
0.5.5	750 mm dia piles.				
	Details of cost for 20 m length of pile.				
	MATERIAL:				
	Concrete $-3.14/4x(0.75)^2x20 = 10.88$ cum				
.33.1	Rate as per Item Number 5.33.1 of SH:	cum	10.88	5013.23	54543.94
	Reinforced cement concrete work				
<b>5</b> 40	Add		40.00	0574 000	00000 07
5.19	Rate as per Item Number 5.19 of SH:	cum	10.88	8571.909	93262.37
	Reinforced cement concrete work				
E 1 2	Deduct Rate as per Item Number 5.1.3 of SH:	ou m	10.00	4400 F2	45502.01
5.1.3	Reinforced cement concrete work	cum	-10.88	4190.53	-45592.91
	Cement mortar 1:2 for grout				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	3601.99	90.05
9999	Wooden block @ 1 block per two piles	L.S.	442	2.12	937.04
7181	C.I. pile shoe	kilogram	80	48	3840.00
, 101	@ 80 kg per pile	Miogram	00	10	00 10.00
7182	M.S. clamps for pile shoe	kilogram	35	43	1505.00
	@ 35 kg per pile	mogram	00	.0	1000.00
	MACHINERY:				
27	Hire and running charges of vibrating pile	day	0.38	30000.00	11400.00
	driving hammer complete with power unit	,			
	and accessories				
28	Hire and running charges of crane 20 tonne	day	0.06	7000.00	420.00
	capacity				
	LABOUR:				
	Work supervisor				
130	Mistry	day	0.12	388	46.56
114	Beldar	day	3	306	918.00
	TOTAL "A"	,			102213.39
	TOTAL				121370.04
	Add Water Charges @ 1% except on A i.e on				

Code	Description	Unit	Quantity	Rate ₹	Amount
	TOTAL		ļļ	` !	121561.61
	Add GST 12% on "X" except on A (multiplying factor (	0.1405)			2718.42
	TOTAL				124280.03 (Y
	Add CPOH @ 15% except on A i.e on				3310.00
	Cost of 20 metre				127590.03
	Cost of 1 metre				6379.50
	labour cess @1% Say				63.80 <b>6443.30</b>
20.5.6	1000mm dia piles.				0440.00
	Details of cost for 20 m length of pile.				
	MATERIAL: Concrete -3.14/4x(1.00) <sup>2</sup> x20 =15.70 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:	cum	15.7	5013.23	78707.70 A
0.00.1	Reinforced cement concrete work	Cum	13.7	3013.23	70707.70 A
	Add				
5.19	Rate as per Item Number 5.19 of SH:	cum	15.7	8571.909	134578.97 A
	Reinforced cement concrete work  Deduct				
5.1.3	Rate as per Item Number 5.1.3 of SH:	cum	-15.7	4190.53	-65791.24 A
	Reinforced cement concrete work				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	3601.99	90.05
9999	Wooden block @ 1 block per two piles	L.S.	442	2.12	937.04
7181	C.I. pile shoe	kilogram	80	48	3840.00
	@ 80 kg per pile				
7182	M.S. clamps for pile shoe	kilogram	35	43	1505.00
	@ 35 kg per pile				
27	MACHINERY:	dov	0.38	30000.00	11400.00
21	Hire and running charges of vibrating pile driving hammer complete with power unit	day	0.30	30000.00	11400.00
	and accessories				
28	Hire and running charges of crane 20 tonne	day	0.06	7000.00	420.00
-	capacity				
	LABOUR:				
	Work supervisor				
130	Mistry	day	0.12	388	46.56
114	Beldar	day	3	306	918.00
	TOTAL "A"				147495.43
	TOTAL				166652.08
	Add Water Charges @ 1% except on A i.e on				191.57 166843.64
	TOTAL Add GST 12% on "X" except on A (multiplying factor (	1405)			2718.42
	TOTAL	J. 1403)			169562.07 (Y
	Add CPOH @ 15% except on A i.e on				3310.00
	Cost of 20 metre				172872.06
	Cost of 1 metre				8643.60
	labour cess @1%				86.44
	Say				8730.00
20.6	Vertical load testing of piles in accordance with IS 2	2911 (Part	IV) including	installation (	of
	loadingplatform by Kentledge/Anchor piles method	and prepa	aration of pile	head or cor	struction
	of test cap and dismantling of test cap after test etc	c. complete	e as per speci	fication & th	e direction
	of Engineer in-charge.				
20.6.1	Single pile upto 50 tonne capacity.				
20.6.1.1					
	Details of cost for 1 test				
7246	Vertical load testing (initial) of piles in	per test	1	38500.00	38500
	accordance with IS: 2911 (Part-IV)	_		/ *	<i>a</i>
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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification				
	and up to 50 tonne capacity pile  TOTAL				38500
	Add Water Charges @ 1% TOTAL				385.00 38885.00 (
	Add GST 12% on "X"(multiplying factor 0.1405) TOTAL				5463.34 44348.34 (
	Add CPOH @ 15% on "Y"				6652.25
	Cost per test				51000.59
	labour cess @1% Say				510.01 <b>51510.60</b>
20.6.1.2	Routine test.				01010.00
	Details of cost for 1 test.				
7249	Cyclic vertical load testing of piles in accordance	per test	1	13800.00	13800
	with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity				
	TOTAL				13800
	Add Water Charges @ 1%				138
	TOTAL				13938.00 (
	Add GST 12% on "X"(multiplying factor 0.1405)				1958.29
	TOTAL "Add CPOH @ 15% on "Y				15896.29 ( 2384.44
	Cost per test				18280.73
	labour cess @1%				182.81
	Say				18463.50
20.6.2 20.6.2.1	Single pile above 50 tonne and upto 100 tonne capa Initial test.	city.			
	Details of cost for 1 test.				
7247	Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of	per test	1	43000.00	43000
	loading platform and preparation of pile head or construction of test cap and dismantling of test				
	cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne				
	TOTAL				43000
	Add Water Charges @ 1%				430
	TOTAL				43430.00 (
	Add GST 12% on "X"(multiplying factor 0.1405)				6101.92
	TOTAL "Add CPOH @ 15% on "Y"				49531.92 ( 7429.79
	Cost per test				56961.70
	labour cess @1%				569.62
	Say				57531.30
20.6.2.2	Routine test.				
7250	Details of cost for 1 test.  Cyclic vertical load testing of piles in accordance with IS: 2911 (Part- IV)	per test	1	22800.00	22800
	including preparation of pile head etc. for Single pile above 50 tonne capacity pile and				
	up to 100 tonne capacity pile		_		
	678 Q	/ /	<i>a</i>		

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL		•		22800
	Add Water Charges @ 1%				228
	TOTAL				23028.00 (>
	Add GST 12% on "X"(multiplying factor 0.1405)				3235.43
	TOTAL "Add CPOH @ 15% on "Y"				26263.43 (Y 3939.52
	Cost per test				30202.95
	labour cess @1%				302.03
	Say				30505.00
20.6.3	Group of two or more piles upto 50 tonne capacity.				
20.6.3.1	Initial test.				
70.40	Details of cost for 1 test.	nor toot	4	40500.00	40500
7248	Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including	per test	1	49500.00	49500
	nstallation of loading platform and preparation				
	of pile head orconstruction of test cap				
	and dismantling of test cap after test etc.				
	complete as per specification & group of two				
	or more up to 50 tonne				
	TOTAL				49500
	Add Water Charges @ 1%				495
	TOTAL				49995.00 (X 7024.30
	Add GST 12% on "X"(multiplying factor 0.1405) TOTAL				7024.30 57019.30 (Y
	Add CPOH @ 15% on "Y"				8552.89
	Cost per test				65572.19
	labour cess @1%				655.72
	Say				66227.90
20.6.3.2	Routine test.				
7251	Details of cost for 1 test.  Cyclic vertical load testing of piles in	per test	1	28500.00	28500
1231	accordance with IS: 2911 (Part- IV)	per test	1	20300.00	20300
	including preparation of pile head etc. for				
	Group of two piles up to 50 tonne capacity				
	each				
	TOTAL				28500
	Add Water Charges @ 1%				285
	TOTAL				28785.00 (>
	Add GST 12% on "X"(multiplying factor 0.1405) TOTAL				4044.29 32829.29 (Y
	Add CPOH @ 15% on "Y"				4924.39
	Cost per test				37753.69
	labour cess @1%				377.54
	Say				38131.20
20.7	Cyclic vertical load testing of pile in accordance wit including preparation of pile head etc for.	h IS Code	of practice IS	:2911 (part	IV)
20.7.1	Single pile.				
20.7.1.1	Upto 50 tonne capacity pile.				
	Details of cost for 1 test.				
7249	Cyclic vertical load testing of piles in	per test	1	13800.00	13800
	accordance with IS: 2911 (Part-IV)				
	including preparation of pile head etc. for				
	Single pile up to 50 tonne capacity  TOTAL				13800
	Add Water Charges @ 1%				138.00
	TOTAL				13938.00 (>

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
20.7.1.2	Add GST 12% on "X"(multiplying factor 0.1405)  TOTAL  Add CPOH @ 15% on "Y"  Cost per test labour cess @1%  Say  Above 50 tonne and upto 100 tonne capacity pile.				1958.29 15896.29 (Y) 2384.44 18280.73 182.81 <b>18463.50</b>
	Details of cost for 1 test.				
7250	Cyclic vertical load testing of piles in accordance with IS: 2911 (Part- IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	per test	1	22800.00	22800
	TOTAL Add Water Charges @ 1%				22800 228
	TOTAL				23028.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				3235.43
	TOTAL Add CPOH @ 15% on "Y"				26263.43 (Y) 3939.52
	Cost per test				30202.95
	labour cess @1% Say				302.03 <b>30505.00</b>
20.7.2 20.7.2.1	Group of two piles. Upto 50 tonne capacity each. Details of cost for 1 test.				30303.00
7251	Cyclic vertical load testing of piles in accordance with IS: 2911 (Part- IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	per test	1	28500.00	28500
	TOTAL Add Water Charges @ 1% TOTAL				28500 285.00 28785.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)  TOTAL  Add CPOH @ 15% on "Y"				4044.29 32829.29 (Y)
	Cost per test				4924.39 37753.69
	labour cess @1% Say				377.54 <b>38131.20</b>
20.8	Lateral load testing of single pile in accordance with determining safe allowable lateral load on pile.	n IS Code	of practice IS	6 : 2911 (Part	: IV) for
20.8.1	Upto 50 tonne capacity pile.  Details of cost for 1 test				
7252	Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity	per test	1	13800.00	13800
	TOTAL				13800
	Add Water Charges @ 1% TOTAL				138 13938.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				1958.29
	TOTAL Add CPOH @ 15% on "Y"				15896.29 (Y)
	Add CPOH @ 15% on "Y"  Cost per test				2384.44 18280.73
	labour cess @1%				182.81
n 4	Say	/ A			18463.50
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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
20.8.2	Above 50 tonne and upto 100 tonne capacity pile.				_
	Details of cost for 1 test.				
7253	Lateral load testing of single pile in	per test	1	23100.00	23100
	accordance with IS: 2911 part -IV for				
	determining safe allowable lateral load on				
	pile above 50 tonne				
	capacity				
	TOTAL				23100.00
	Add Water Charges @ 1%				231.00
	TOTAL				23331.00 (X
	Add GST 12% on "X" (multiplying factor 0.1405)				3278.01
	TOTAL				26609.01 (Y
	Add CPOH @ 15% on "Y"				3991.35
	Cost per test				30600.36
	labour cess @1%				306.00
	Say				30906.40

20.9 Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo method in accordance with IS 14893 including surface preparation of pile top byTest removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.

Note:- The inclusion of the above item in the schedule of work shall be judiciously decided by the technical sanctioning authority, keeping in view the quality control, type of soil strata & importance of the project.

Details of cost for one pit test (Ten pits in one day).

	MATERIAL				
0081	Pile Integrity testing equipment	day	0.10	3000.00	300.00
	LABOUR				
0160	Technician	day	0.10	531.00	53.10
0161	Helper (Technician)	day	0.10	306.00	30.60
	miscllaneous				
9999	Reporting charges	L.S.	100.67	2.12	213.42
9999	Transportation and consumables etc.	L.S.	33.56	2.12	71.15
	TOTAL				668.27
	Add Water Charges @ 1%				6.68
	TOTAL				674.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				94.83
	TOTAL				769.78 (Y)
	Add CPOH @ 15% on "Y"				115.47
	Cost per test				885.25
	labour cess @1%				8.85

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