Sr. N		Description	Unit	Rate	e (Rs.)	Ref. Tech.
31. IV	ΙΟ.	Description	Offic	Labour	Composite	Specs.
7-1	a)	Providing and laying concrete for bored cast in situ piles by tremie pipe or skip bucket using Lawrencepur sand and Margalla crushed stone 3/4" (19mm) & down gauge in dense homogeneous concrete nominal mix 1:1.33:2.66 having cube crushing strength of 34.5 N/mm2 at 28 days. The concrete in the piles is to be measured by multiplying the cross-sectional area of the pile by the length of pile as cast, from the head to the butt of the shoe. Reinforcement & boring of pile is to be measured for payment separately.	Cu.ft	2,424.75 68.65	13,858.60 392.50	7.2
	b)	Deduct from item 7-1(a) if local crushed aggregate is used in place of Margalla crushed stone.	Cu.m. Cu.ft	-	975.35 27.60	
	c)	Extra if 1 : 1 : 2 mix is used in item 7-1(a) above	Cu.m. Cu.ft	-	4,259.68 120.65	
	d)	Deduct from item 7-1(c) if local crushed aggregate is used in place of Margalla crushed stone	Cu.m. Cu.ft	-	2,927.20 82.90	
	e)	Deduct if 1 : 2 : 4 mix is used in item 7-1(a) above	Cu.m. Cu.ft	- -	937.82 26.55	
	f)	Deduct from item 7-1(e) if local crushed aggregate is used in place of Margalla crushed stone	Cu.m. Cu.ft	-	904.16 25.60	
7-2	a)	Providing and laying RCC precast piles of required size with chamfered corners using Lawrencepur sand & Margalla crushed aggregate 3/4" (19mm) and down gauge in dense homogeneous concrete nominal mix 1:1.33:2.66 having cube crushing strength of 34.5N/mm2 at 28 days, including formwork and its removal, compaction, vibration, curing, stacking at site but excluding the cost of reinforcement.	Cu.ft	2,423.75 68.65	12,271.76 347.55	7.3
	b)	Deduct from item 7-2(a) if local crushed aggregate is used in place of crushed stone.	Cu.m. Cu.ft	- -	1,164.80 33.00	
	c)	Extra if 1 : 1 : 2 mix is used in item 7-2(a) above	Cu.m. Cu.ft	- -	3,897.80 110.40	
	d)	Deduct from item 7-2(c) if local crushed aggregate is used in place of Margalla crushed stone	Cu.m. Cu.ft	- -	2,545.40 72.10	
7-3		Providing and fixing cast iron pile shoes for RCC piles with necessary fittings.	Kg. Lb.	17.10 7.75	189.69 86.05	
7-4	a)	Driving of RCC precast piles of any size vertically upto 320 ft. (10 m) depth from ground level with specified penetration or set in all kinds of soil including cost of handling and pitching the piles in position.	R.ft	804.40 245.20	1,533.15 467.30	7.3.6
	b)	Extra for driving piles in tidal water over item 7-4(a)	R.M. R.ft	804.40 245.20	1,533.15 467.30	
	c)	Extra for driving piles in tidal water from pontoons or barges over item 7-4(a)	R.M. R.ft	553.50 168.70	773.46 235.75	
	d)	Extra for driving piles in non-tidal water from pontoons or barges or otherwise over item 7-4(a)	R.M. R.ft	276.75 84.35	386.75 117.90	
7-5	a)	Driving of RCC precast piles of any size vertically to depth greater than 320ft.(10m) below ground level with specified penetration or set in all kinds of soil including cost of handling and pitching the piles in position. 7 - 1 (PILE FOUNDATION CONC	R.ft	837.90 255.40	1,284.80 391.60	7.3.6

				Rate	e (Rs.)	Ref. Tech.
Sr. N	ο.	Description	Unit	Labour	Composite	Specs.
	b)	Extra for driving piles in tidal water over item 7-5(a)	R.M.	808.05	1,403.52	
			R.ft	246.36	427.90	
	C)	Extra for driving piles in tidal water from pontoons or barges	R.M.	404.05	701.75	
	C)	over item 7-5(a)	R.ft	123.19	213.95	
	d)	Extra for driving piles in non-tidal water from pontoons or		202.05	350.90	
		barges or otherwise over item 7-5(a)	R.ft	61.60	106.98	
7-6	a)	Driving of RCC precast inclined piles of any size to specified	R.M.	804.40	1,533.15	7.3.6
		inclination and depth upto 320 ft (10m) below ground level		245.20	467.30	
		with specified penetration or set in all kinds of soil including				
		the cost of handling and pitching the piles in position.				
	b)	Extra for driving piles in tidal water over item 7-6(a)	R.M.	901.85	1,532.19	
			R.ft	274.96	467.13	
	c)	Extra for driving piles in tidal water from pontoons or barges	R.M.	450.95	766.10	
	c)	over item 7-6(a)	R.ft	137.48	233.57	
		Visit of the second				
	d)	Extra for driving piles in non-tidal water from pontoons or	R.M.	225.50	383.05	
		barges or otherwise over item 7-6(a)	R.ft	68.75	116.78	
7-7	a)	Driving of RCC precast inclined piles of any size to	R.M.	837.90	1,353.55	7.3.6
		specified inclination and depth greater than 320 ft (100m)	R.ft	255.46	412.67	
		from ground level with specified penetration or set in all				
		kinds of soil including the cost of handling and pitching the piles in position.				
		plies in position.				
	b)	Extra for driving piles in tidal water over item 7-7(a)	R.M.	631.03	974.30	
			R.ft	192.39	297.04	
	C)	Extra for driving piles in tidal water from pontoons or barges	ΡМ	315.50	487.15	
	C)	over item 7-7(a)	R.ft	96.19	148.52	
	d)	Extra for driving piles in non-tidal water from pontoons or	R.M. R.ft	157.75 48.09	243.60 74.27	
		barges or otherwise over item 7-7(a)	K.II	46.09	14.21	
7-8		Cutting of top of RCC piles of any size including chiseling,	Cu.m.	284.65	415.75	7.2.5.2 (iv)
		dismantling, straightening the steel and disposal	Cu.ft	86.75	126.70	
7-9		Extracting RCC piles in all kinds of soil.				
	a)	Piles upto 18 inches (450 mm) nominal dia	R.M.	575.25	712.75	
			R.ft	175.35	217.25	
	b)	Piles above 18 inches (450 mm) nominal dia	R.M.	661.55	826.55	
	•		R.ft	201.65	251.95	
7-10		Providing and laying for cast in situ RCC piles mild steel	Ton	12,014.48	120,073.15	7.2.4 (4)
		reinforcement bars (G-60) with and including the cost of		12,207.30	122,000.30	•
		straightening, removing rust, cutting, bending, binding,				
		welding, wastage, overlaps as are not shown on the				
		drawings. The cost of binding wire and holding the reinforcement in position is inclusive.				
7-11		Providing and laying for cast in situ RCC piles		12,014.48	119,660.65	7.2.4 (4)
		intergraded deformed reinforcement bars (G-60) with and	Ton	12,207.30	106,650.18	
		including the cost of straightening, removing rust, cutting, bending, binding, welding, wastage, overlaps as are not				
		shown on the drawings. The cost of binding wire and				
L		holding the reinforcement in position is inclusive.				

7 - 2 (PILE FOUNDATION CONCRETE)

Sr. No	. Description	Unit		(Rs.)	Ref. Tech.
	- Bootinphon	0 1	Labour	Composite	Specs.
7-12	Providing and laying for pile caps, grade beams and precast piles mild reinforcement bars (G-60) with and including the cost of straightening, removing rust, cutting, bending, binding, welding, wastage, overlaps as are not shown on the drawings. The cost of binding wire and precast 1:2:4 cement concrete or M.S. chairs for binding and holding the reinforcement in position is inclusive.	Ton	33,151.70 33,683.80	130,690.84 132,788.40	7.2.4 (4)
7-13	Providing and laying for pile caps, grade beams, and precast pile integrated deformed bars (G-60) with and including the cost of straightening, removing rust, cutting, bending, binding, wastage, overlaps as are not shown on the drawings. The cost of binding wire and precast 1:2:4 cement concrete or M.S. chairs for binding and holding the reinforcement in position is inclusive.	Ton	34,779.69 35,337.90	120,216.07 122,145.55	7.2.4 (4)
7-14	Providing and laying cement concrete using Lawrencepur sand & Margalla crushed stone 3/4" (19 mm) and down gauge in pile caps, tee beams, and grade beams in dense homogeneous concrete mix including formwork and its removal, compacting, curing, and bailing out or pumping out sub-soil water during concreting, but excluding the cost of reinforcement.				5.3 5.4 5.5
a		Cu.m. Cu.ft	2,474.05 70.05	16,569.45 469.25	
t	1:1.5:3	Cu.m. Cu.ft	2,474.05 70.05	14,858.25 420.80	
C	1:2:4	Cu.m. Cu.ft	2,474.05 70.05	13,767.70 389.90	
c	Deduct from item 7-14(a) if local crushed aggregate is used in place of crushed stone	Cu.m. Cu.ft	- -	1,234.95 34.95	
e	Deduct from item 7-14(b) if local crushed aggregate is used in place of crushed stone	Cu.m. Cu.ft	- -	1,178.85 33.40	
f	Deduct from item 7-14(c) if local crushed aggregate is used in place of Margalla crushed stone	Cu.m. Cu.ft	- -	1,080.60 30.60	
7-15	Boring by percussion, direct rotary or reverse rotary method for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in all kinds of soil except shingle, gravel or rock.				7.2.5 (i)
a	From ground level upto 250 ft (76 m) below ground level				
i	15" to 18" (375 mm to 450 mm) i/d	R.M. R.ft	1,243.13 379.00	1,657.50 505.34	
i	. 20" to 30" (500 mm to 750 mm) i/d	R.M. R.ft	1,189.08 362.52	1,585.43 483.36	
ii	. 32" to 40" (800 to 1000 mm) i/d	R.M. R.ft	2,486.25 758.00	3,315.00 1,010.67	
iv	. 46" to 60" (1200 to 1500 mm) i/d	R.M. R.ft	2,378.14 725.04	3,170.85 966.72	

b) Exceeding 250 ft (76 m) below ground level i. 15" to 18" (375 mm to 450 mm) i/d ii. 20" to 30" (500 mm to 750 mm) i/d iii. 32" to 40" (800 to 1000 mm) i/d R.M. 2.859.23 R.f.t. 871.71 7-16 Boring by percussion, direct rotary or reverse rotary method for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in shingle, gravel i. 15" to 18" (375 mm to 450 mm) i/d R.M. 2.869.25 R.M. 2.734.88 3.812.30 R.f.t. 2.859.23 3.812.30 R.f.t. 2.734.88 3.812.30 R.f.t. 2.859.23 3.812.30 R.f.t. 2.859.23 3.812.30 R.f.t. 2.859.23 3.812.30 R.f.t. 2.859.23 3.812.30 R.f.t. 2.734.88 3.829.45 7.29 7.20 7.20 7.21 7.22 7.22 7.23 7.24 7.24 7.25 8.658.70 R.M. 2.859.70 R.M. 2.859.65 R.M. 2.7711.45 R.M. 2.859.65 R.M. 2.7711.45 R.M. 2.7711.45 R.M. 2.7711.45 R.M	ef. Tech.	-	(Rs.)		Unit	Description	Sr. No.	s
i. 15" to 18" (375 mm to 450 mm) i/d ii. 20" to 30" (500 mm to 750 mm) i/d iii. 20" to 30" (600 to 1000 mm) i/d iii. 32" to 40" (800 to 1000 mm) i/d R.M. 2,859,23 3,812,30 R.ft. 338,94 1,162,29 iv. 46" to 60" (1200 to 1500 mm) i/d R.M. 2,734,88 3,846,50 R.ft. 338,94 1,117,4 7.2 7.2 80	Specs.		Composite	Labour				H
III. 20" to 30" (500 mm to 750 mm) i/d R.M. 1,367.44 1,823.25 555.87 R.ft. 416.90 3.812.20 R.ft. 46" to 60" (1200 to 1500 mm) i/d R.ft. 48" to 40" (800 to 1000 mm) i/d R.						Exceeding 250 ft (76 m) below ground level	b)	
iii. 32" to 40" (800 to 1000 mm) i/d R.M. 2.859.23 3.812.30 R.ft 46" to 60" (1200 to 1500 mm) i/d R.ft 338.94 1.111.74 7-16 Boring by percussion, direct rotary or reverse rotary method for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in Shirngle, gravel a. 15" to 18" (375 mm to 450 mm) i/d R.ft 2,617.35 ii. 20" to 30" (500 mm to 750 mm) i/d R.ft 3,817.05 iv. 46" to 60" (1200 to 1500 mm) i/d R.ft 4,611.75 b) Exceeding 250 ft (76 m) below ground level i. 15" to 18" (375 mm to 450 mm) i/d R.ft 2,711.45 ii. 20" to 30" (500 mm to 750 mm) i/d R.ft 3,895.65 R.ft 3,018.35 iii. 32" to 40" (800 to 1000 mm) i/d R.ft 4,611.75 b) Exceeding 250 ft (76 m) below ground level ii. 15" to 18" (375 mm to 450 mm) i/d R.ft 3,018.35 iii. 32" to 40" (800 to 1000 mm) i/d R.ft 3,018.35 R.ft 4,611.75 ii. 20" to 30" (500 mm to 750 mm) i/d R.ft 3,018.35 R.ft 3,018.35 R.ft 4,611.75 iii. 32" to 40" (800 to 1000 mm) i/d R.ft 3,018.35 R.ft 4,611.75 iii. 32" to 40" (800 to 1000 mm) i/d R.ft 3,098.20 R.ft 3,098.20 R.ft 3,098.20 R.ft 3,098.20 R.ft 3,098.20 R.ft 3,098.20 R.ft 3,097.95 R.ft 3,097.70 R.ft 4,697.70 R.ft 5,234.47 R.ft 5,234.47						15" to 18" (375 mm to 450 mm) i/d	i.	
iv. 46" to 60" (1200 to 1500 mm) i/d R.M. 2.734.88 3.646.50 R.ft. R.M. 2.734.88 3.646.50 R.ft. R.M. 2.734.88 3.636.50 R.ft. R.M. 2.734.88 3.639.94 1.111.74 7.26 R.M. 2.734.88 3.639.94 1.111.74 7.27 7.28 R.M. 2.734.88 3.639.94 1.111.74 7.28 7.29 7.29 7.20 7.2						20" to 30" (500 mm to 750 mm) i/d	ii.	
7-16 Boring by percussion, direct rotary or reverse rotary method for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in shingle, gravel i. 15" to 18" (375 mm to 450 mm) i/d ii. 20" to 30" (500 mm to 750 mm) i/d iii. 32" to 40" (800 to 1000 mm) i/d iv. 46" to 60" (1200 to 1500 mm) i/d ii. 15" to 18" (375 mm to 450 mm) i/d R.M 12,523.04 R.ft 3,817.05 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,130.23 R.ft 4,611.75 b) Exceeding 250 ft (76 m) below ground level i. 15" to 18" (375 mm to 450 mm) i/d R.M 8,895.65 R.ft 2,711.45 iii. 20" to 30" (500 mm to 750 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,788.33 R.ft 3,897.95 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. 7-18 Sub-soil of required dia in rock of all sorts to required depth c						32" to 40" (800 to 1000 mm) i/d	iii.	
for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in shingle, gravel as a process of the state						46" to 60" (1200 to 1500 mm) i/d	iv.	
ii. 15" to 18" (375 mm to 450 mm) i/d R.M. R.ft 8,587.04 R.ft 2,617.35 iii. 20" to 30" (500 mm to 750 mm) i/d R.M 9,902.56 R.ft 3,018.35 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,523.04 R.ft 3,817.05 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,130.23 R.ft 4,611.75 b) Exceeding 250 ft (76 m) below ground level i. 15" to 18" (375 mm to 450 mm) i/d R.M 2,711.45 ii. 20" to 30" (500 mm to 750 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,788.33 R.ft 3,098.20 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. R.M. R.ft 515.47 7-18 Sub-soil of required dia in rock of all sorts to required depth or R.M 2,334.47	.2.5 (b)	7				for piling in any kind of soil including extraction of casing pipe and or using bentonite as applicable in shingle, gravel	'-16	7-
ii. 20" to 30" (500 mm to 750 mm) i/d iii. 20" to 30" (500 mm to 750 mm) i/d iii. 32" to 40" (800 to 1000 mm) i/d iv. 46" to 60" (1200 to 1500 mm) i/d iv. 46" to 18" (375 mm to 450 mm) i/d iii. 20" to 30" (500 mm to 750 mm) i/d iii. 20" to 30" (500 mm to 750 mm) i/d iii. 32" to 40" (800 to 1000 mm) i/d R.M 15,130.23 R.ft 4,611.75 b) Exceeding 250 ft (76 m) below ground level i. 15" to 18" (375 mm to 450 mm) i/d R.M 8,895.65 R.ft 2,711.45 iii. 20" to 30" (500 mm to 750 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,788.33 R.ft 3,897.95 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. 7-18 Sub-soil of required dia in rock of all sorts to required depth of R.M 2,334.47						From ground level upto 250 ft (76 m) below ground level	a)	
iii. 32" to 40" (800 to 1000 mm) i/d R.M. - 12,523.04 R.ft - 3,018.35 iv. 46" to 60" (1200 to 1500 mm) i/d R.M. - 15,130.23 R.ft - 4,611.75 b) Exceeding 250 ft (76 m) below ground level				-			i.	
iv. 46" to 60" (1200 to 1500 mm) i/d iv. 46" to 60" (1200 to 1500 mm) i/d Exceeding 250 ft (76 m) below ground level i. 15" to 18" (375 mm to 450 mm) i/d ii. 20" to 30" (500 mm to 750 mm) i/d iii. 20" to 40" (800 to 1000 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,788.33 R.ft 3,897.95 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. 7-18 Sub-soil of required dia in rock of all sorts to required depth complete complete to R.M 2,334.47				- -		20" to 30" (500 mm to 750 mm) i/d	ii.	
R.ft. - 4,611.75				- -		32" to 40" (800 to 1000 mm) i/d	iii.	
i. 15" to 18" (375 mm to 450 mm) i/d R.M 8,895.65 R.ft 2,711.45 ii. 20" to 30" (500 mm to 750 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,788.33 R.ft 3,897.95 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. R.ft 1,690.73 R.ft 515.47 7-18 Sub-soil of required dia in rock of all sorts to required depth of R.M - 2,334.47				- -		46" to 60" (1200 to 1500 mm) i/d	iv.	
ii. 20" to 30" (500 mm to 750 mm) i/d iii. 20" to 30" (500 mm to 750 mm) i/d R.M 10,164.55 R.ft 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M 12,788.33 R.ft 3,897.95 iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. 7-18 Sub-soil of required dia in rock of all sorts to required depth complete complete to R.M - 2,334.47						Exceeding 250 ft (76 m) below ground level	b)	
R.ft - 3,098.20 iii. 32" to 40" (800 to 1000 mm) i/d R.M. - 12,788.33 R.ft - 3,897.95 iv. 46" to 60" (1200 to 1500 mm) i/d R.M. - 15,412.25 R.ft - 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. R.ft. - 1,690.73 7-18 Sub-soil of required dia in rock of all sorts to required depth complete 4-8 R.M. - 15,412.25 R.M. - 1,690.73 R.ft. - 515.47 7-18 Sub-soil of required dia in rock of all sorts to required depth complete 4-8 R.M. - 1,690.73 R.M. - 1,690.73 R.M. - 2,334.47 R.M. - 2,334.47 R.M. - 3,098.20 R.M.				-		15" to 18" (375 mm to 450 mm) i/d	i.	
iv. 46" to 60" (1200 to 1500 mm) i/d R.M 15,412.25 R.ft 4,697.70 7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. R.M 15,412.25 R.ft 1,690.73 R.ft 515.47 7-18 Sub-soil of required dia in rock of all sorts to required depth complete R.M - 2,334.47				-		20" to 30" (500 mm to 750 mm) i/d	ii.	
7-17 Sub-soil boring of required dia in all kinds of soil except rock to required depth complete 4-8 inch inner dia. R.ft 4,697.70 R.M - 1,690.73 R.ft 515.47 7-18 Sub-soil of required dia in rock of all sorts to required depth complete 4-8 inch inner dia.				- -		32" to 40" (800 to 1000 mm) i/d	iii.	
to required depth complete 4-8 inch inner dia. R.ft 515.47 7-18 Sub-soil of required dia in rock of all sorts to required depth c R.M - 2,334.47				- -		46" to 60" (1200 to 1500 mm) i/d	iv.	
7-18 Sub-soil of required dia in rock of all sorts to required depth c R.M - 2,334.47				- -			7-17	7
I I R.tt. I - I 711.73 I			2,334.47 711.73	-	R.M R.ft.		7-18	7
7 - 4 (PILE FOUNDATION CONCRETE)					SETE)	7 - 4 (PILE FOLINDATION CONC		