## DETAIL ESTIMATE OF PROPOSED ADMISTRATIVE BUILDING, PHASE-III OF MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIYALAYA AT ATUATIKA, RAIDONGA,NAGAON, ASSAM

	WORKS	:						
SI.No.	APWD No.	Description of works	Unit	Qty.	SOR Rate	Amount	Contract Rate	Contract Amount
CPTR	1	EARTHWORK						
1	1.1	EARTHWORK IN EXCAVATION	•					
1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where						
		necessary as directed and						
		specified. (A) Up to a depth of 2.00m below the existing ground level.						
		(a) In ordinary soil	Cum	493.04	108.82	Rs.53,652.35		
2	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.						
		(c) With river sand or silt						
		(predominantly non plastic) by truck carriage including loading and unloading.	Cum	1149.10	345.61	Rs.397,139.07		
3	1.4	Raising low site around the building with approved soil obtained from outside by truck carriage including breaking clods, dressing etc. complete including paying necessary forest royelty, sales tax, land compensation, municipal gate fees, if any monopoly duty etc. (profile measurement to be taken and 12.5% deduction for shrinkage to be made from total quantity) etc. complete as directed and specified. (b) Other than Guwahati city	Curr			Do 2 200 505 00		
		(b) Other than Guwanati City	Cum	11268.25	210.20	Rs.2,368,585.62		
CPTR	2	CEMENT CONCRETE WORKS						
		PLAIN CEMENT CONCRETE		ļ				
	2.1	WORKS						

4	2.1.1	Plain cement concrete works					
		with coarse aggregate of sizes					
		13mm to 32mm in foundation					
		bed for footing steps, walls,					
		brick works etc. as directed and					
		specified including dewatering if					
		necessary, and curing complete					
		(shuttering where necessary					
		shall be measured and paid					
		separately).					
		oopulatoly).					
		(b) In prop 1cement: 4 sand :8					
		coarse aggregate by volume	Cum	51.12	3890.61	Rs.198,901.78	
5	2.1.2	Plain cement concrete floor	Cam	01.12	0000.01	110.100,001.10	
Ŭ	2.1.2	base in prop1:3:6 laid in					
		alternate bays as specified with					
		coarse agg. of size 13mm to					
		32mm including dewatering if					
		necessary, and curing etc.					
		complete.					
		b) 50mm thick	Sqm	1422.00	253.28	Rs.360,164.16	
6	2.1.3	Providing and laying 25mm thick		1 122.00	200.20	1.0.000, 104.10	
	2.1.0	damp proof course with cement					
		concrete in prop 1:1.5:3 with					
		graded stone agg. of 10mm					
		down nominal size including					
		providing approved damp proof					
		admixture in proportion as					
		recommended by the manufacturer including curing					
		etc. complete as directed.	Sqm	122.73	181.99	Rs.22,336.11	
			oqiii	122.75	101.33	1(3.22,000.11	
CDTD	2.2						
CPTR	2.2						
		CONCRETE WORKS					
CPTR 7	<b>2.2</b> 2.2.1	CONCRETE WORKS Providing and laying					
		CONCRETE WORKS Providing and laying plain/reinforced cement					
		<b>CONCRETE WORKS</b> Providing and laying plain/reinforced cement croncrete works cement, coarse					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be					
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		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam,					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank,					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.					
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture,		515 49	6063.65	Rs 3 125 706 92	
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, b) M20 grade concrete or Prop. 1	Cum	515.48	6063.65	Rs.3,125,706.83	
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, b) M20 grade concrete or Prop. 1 i) Walls (thickness not less than	Cum	515.48	6063.65	Rs.3,125,706.83	
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, b) M20 grade concrete or Prop. 1 i) Walls (thickness not less than 100mm) including attached	Cum	515.48	6063.65	Rs.3,125,706.83	
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, b) M20 grade concrete or Prop. 1 i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and	Cum	515.48	6063.65	Rs.3,125,706.83	
		CONCRETE WORKS Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine (A) In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, b) M20 grade concrete or Prop. 1 i) Walls (thickness not less than 100mm) including attached	Cum	515.48	6063.65	Rs.3,125,706.83	

		N) Without using admixture,					
		b) M20 grade concrete or Prop. 1	Cum	357.39	6241.39	Rs.2,230,612.71	
CPTR	3	SHUTTERING WORKS					
	3.1	TIMBER SHUTTERING (FORM)	NORK)				
8	3.1.1	Providing form work of ordinary					
		timber planking so as to give a					
		rough finish including centering,					
		shuttering, strutting and					
		propping etc., height of propping and centering below supporting					
		floor to ceiling not exceeding					
		4.0M and removal of the same					
		for in-situ reinforced concrete					
		and plain concrete work in:					
		Foundation, footings, bases of					
	3.1.1.1	columns, pile cap, raft and mass					
		concrete works etc.		000.01	050.01	D. 100 001 00	
	0440	(b) Using 25mm thick plank	Sqm	638.01	252.24	Rs.160,931.09	
9	3.1.1.2	Sides of tie beams, grade beams etc. at or below ground					
		level.					
		(b) Using 25mm thick plank	Sqm	970.33	341.90	Rs.331,756.00	
10	3.1.1.3	Columns, Pillars, Posts & Strut		0.0.00	011100		
		(a) Square, Rectangular,					
		polygonal in plan or any shape					
		like Tee/L etc. having plane					
		vertical face					
		(ii) Using 25mm thick plank	Sqm	936.60	364.01	Rs.340,931.77	
		(b) Circular or curved in plan	Carro	105.04	E04 4E	Do 104 074 44	
11	2111	(Using 38mm thick plank) Sides and Soffits of Beams,	Sqm	195.94	531.15	Rs.104,071.41	
11	3.1.1.4	beam haunchings, cantilever					
		girders, bressumers, lintels and					
		horizontal ties.					
		(a) For depth not exceeding 1.0M	1.				
		(ii) Using 25mm thick plank	Sqm	780.45	202.44	Rs.157,995.01	
12	3.1.1.5	Flat Surfaces such as soffits of					
		suspended floors, roofs,					
		landings, cantelever slabs,					
		chajjas, balconies and the like.					
		(a) Floors etc. upto 200mm in thi	ckness				
	ļ	(ii) Using 25mm thick plank	Sqm	1494.56	429.93	Rs.642,554.25	
13	3.1.1.7	Sloping or Battering sufaces	- 1		0.00		
		such as sloped slabs etc.					
		including folded plates.					
		(a) Where inclination to					
		horizontal plane does not					
		exceed 30o requiring shuttering					
		only on the underside.					
		(ii) Using 25mm thick plank	Sqm	77.52	489.24	Rs.37,925.88	
14	31110	Staircase with sloping or	oqn	11.52	403.24	113.01,920.00	
, ,	5.1.1.10	stepped soffits including risers					
		and stringers but excluding					
		Landing. (Using 38mm thick					
	<u> </u>	plank)	Sqm	55.10	496.80	Rs.27,375.17	
	4	MASONARY WORK					

15	4.1.1	Providing <b>soling</b> in foundation						
		and under floor with stone/ best						
		quality picked jhama brick, sand						
		packed and laid to level and in						
		panel after preparing the						
		subgrade as directed including						
		с						
		all labour and materials and if						
		necessary dewatering,						
		complete.						
		(a).Brick on flat soling.	Sqm	2298.81	368.71	Rs.847,595.52		
16	4.1.4	Brick work in cement morter						
		with 1st class brick including						
		racking out joints and curing						
		complete as directed.						
		(I) In Sub-structure upto plinth						
		level including dewatering if						
		(b) In proportion 1:4.	Cum	31.77	5860.86	Rs.186,198.94		
17	4.1.8	1st class brick nogged wall in						
		cement mortar including racking						
		out joints and curing complete						
		as directed in super structure						
		above plinth up to 1st floor level						
		(protruding M.S rod/Tor steel of						
		column to be embedded in						
		cement mortar and will be						
		measured and paid separately)						
		(A) <b>112mm</b> thick brick wall						
			Sam	1454.11	653.01	Rs.949,550.98		
		(a) In cement mortar in proportion	Sqiii	1454.11	055.01	115.949,000.90		
CPTR		PLASTERING AND HERITAGE						
	<u> </u>		INISII					
	6	PLASTERING WORK						
	6.0						1	1
10	6.2	CEMENT PLASTERING						
18	6.2 6.2.1	10 mm thick Cement plaster in						
18		10 mm thick Cement plaster in single coat on fair side of						
18		10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior						
18		<b>10 mm thick Cement plaster in</b> <b>single coat on fair side</b> of brick/concrete walls for interior plastering up to 1st floor level						
18		<b>10 mm thick Cement plaster in</b> <b>single coat on fair side</b> of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded						
18		<b>10 mm thick Cement plaster in</b> <b>single coat on fair side</b> of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm						
18		<b>10 mm thick Cement plaster in</b> <b>single coat on fair side</b> of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded						
18		<b>10 mm thick Cement plaster in</b> <b>single coat on fair side</b> of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm						
18		10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.						
18		10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing	Sqm	1499.52	116.85	Rs.175,218.91		
	6.2.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4	Sqm	1499.52	116.85	Rs.175,218.91		
18 CPTR	6.2.1 	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT	Sqm	1499.52	116.85	Rs.175,218.91		
	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning,</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> </ul> STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs,</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap,</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.</li> <li>(No extra measurement for lap, hook, chair, anchor etc. will be</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.</li> <li>(No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
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CPTR	6.2.1 18 18.1	<ul> <li>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</li> <li>b) In cement mortar 1:4</li> <li>STEEL AND IRON WORKS REINFORCEMENT</li> <li>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.</li> <li>(No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement</li> </ul>	Sqm	1499.52	116.85	Rs.175,218.91		
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		a) From Primary Producer:					
		TATA/SAIL/Jindal steel/Shyam					
		steel/RINL					
		(i) TMT Corrosion resistant steel					
		(CRS) reiforcement bar	Qtl.	1112.67	7158.90	Rs.7,965,493.26	
CPTR	21	PILING WORKS					
	21.2	MACHINE DRIVEN PILES					
20	21.2.1	Providing cast in-situ machine					
		driven reinforced cement					
		concrete piles of required bore-					
		diameter, bulb diameter, lengths					
		and with reinforcement as per					
		specifications and drawings					
		including using of Bentonite					
		solution. (Reinforcement to be					
		measured and paid seperately					
		as per item no. 21.4.1)					
		C) UNIFORM PILE					
		(I) Concret garade M20					
		iii) Pile dia 400 mm	Rm	3312.00	1236.74	Rs.4,096,082.88	
		,		3312.00	1200.74	113.4,030,002.00	
	21.5	REINFORCEMENT					 
21	21.5.1	Supplying, fitting and fixing in					
		position reinforcement bars					
		conforming to relevent IS code,					
		for reinforced cement concrete					
		works in piles including					
		straightening, cleaning, cutting					
		and bending to proper shapes					
		and length as per specifications					
		and drawings. The rings should					
		be welded with vertical					
		reinforcements as per specified					
		IS codes of practice. (Inclusive					
		of lap length, hook, chair, bend,					
		anchoretc)					
		$(\Lambda)$ TMT has see the of Defense $\mu$					 
1 1		(A) TMT bar made of Primary					
		producer (From Primary					
			Qtl.	327.79	7210.68	Rs.2,363,618.51	

Collection from the field and testing in the laboratory of undisturbed soil sample for sub- soil investigation (as per relevant 1.S. code) by open drive sampler (100 mm dia. Boring) through clayey soil layer/sandy soil layer/sandy clay/sandy silt layer/clayey silt layer, conduction standard penetration test(SPT) and collection of SPT sampler, observation of ground water table, spot level survey to the bore location and carrying out RLL from nearest B.M., laboratory test (particle size analysis, hydrometer test, liquid limit determination, plastic limit determination, plastic limit determination, plastic limit determination, paperation of sub- soil investigation report compression test, consolidation test) including preparation of sub- soil investigation report complete with necessary printing and binding (minimum 5 copies)         A. Boring.         (ii) Construction of 100mm machine boring (Drilling) through all types of cycle, sandy clay, silty sand, silty clay soil, excluding transportation charges.	22	28.1						
Image: state structure in the laboratory of undisturbed soil sample for subsoil investigation (as per relevant I.S. code) by open drive sampler (100 mm dia. Boring) through clayey soil layer/sandy soil layer/sandy clay/sandy silt layer/calayey silt layer, conduction standard penetration test(SPT) and collection of SPT sampler, observation of ground water table, spot level survey to the bore location and carrying out R.L. from nearest B.M.,laboratory test (particle size analysis,hydrometer test,liquid limit determination,plastic limit determination,plastic limit determination, plastic limit determination, plastic limit determination, plastic limit determination in test, consolidation test) including preparation of sub soil investigation report complete with necessary printing and binding (minimum 5 copies)         A. Boring.       (i) Construction of 100mm machine boring (Drilling) through all types of cycle, sandy clay, silty sand, silty clay soil, excluding ransportation charges.	22	20.1						
Image: state structure in the laboratory of undisturbed soil sample for subsoil investigation (as per relevant I.S. code) by open drive sampler (100 mm dia. Boring) through clayer soil layer/sandy day/sandy silt layer/candy clay/sandy clay/candy clay/candy clay/candy clay/candy clay/candy clay/candy clay/c								
Image: state structure in the laboratory of undisturbed soil sample for subsoil investigation (as per relevant I.S. code) by open drive sampler (100 mm dia. Boring) through clayer soil layer/sandy day/sandy silt layer/candy clay/sandy clay/candy clay/candy clay/candy clay/candy clay/candy clay/candy clay/c			Collection from the field and					
undisturbed soil sample for subsoil investigation (as per relevant I.S. code) by open drive sampler (100 mm dia. Boring) through clayey soil layer/sandy soil layer/sandy clay/sandy silt layer/clayey soil layer, conduction standard penetration test(SPT) and collection of SPT sampler, observation of ground water table, spot level survey to the bore location and carrying out R.L. from nearest B.M., laboratory test (particle size analysis, hydrometer test, liquid limit determination, plastic limit determination, plastic limit determination, plastic limit determination, triaxal test, direct shear test, unconfined compression test, consolidation test) including preparation of subsoil investigation report complete with necessary printing and binding (minimum 5 copies)         A. Boring.         (ii) Construction of 100mm machine boring (Drilling) through all types of cycle, sandy clay, silty sand, silty clay soil, excluding transportation charges.								
soil investigation (as per relevant I.S. code) by open drive sampler (100 mm dia. Boring) through clayey soil layer/sandy soil layer/sandy clay/sandy silt layer/clayey silt layer,conduction standard penetration test(SPT) and collection of SPT sampler,observation of ground water table,spot level survey to the bore location and carrying out R.L. from nearest B.M.,laboratory test (particle size analysis,hydrometer test,liquid limit determination,plastic limit determination,plastic limit determination,plastic limit determination,riaxal test,direct shear test, unconfined compression test, consolidation test) including preparation of sub soil investigation report complete with necessary printing and binding (minimum 5 copies)         A. Boring.         (ii) Construction of 100mm machine boring (Drilling) through all types of cycle, sandy clay, silty sand, silty clay soil, excluding transportation charges.			<b>.</b>					
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through clayey soil layer/sandy         soil layer/sandy clay/sandy silt         layer/clayey silt layer, conduction         standard penetration test(SPT)         and collection of SPT         sampler, observation of ground         water table, spot level survey to         the bore location and carrying         out R.L. from nearest         B.M., laboratory test (particle         size analysis, hydrometer         test, liquid limit         determination, plastic limit         determination, riaxal test, direct         shear test, unconfined         compression test, consolidation         test) including preparation of sub         soil investigation report         complete with necessary printing         and binding (minimum 5 copies)         A. Boring.         (ii) Construction of 100mm         machine boring (Drilling) through         all types of cycle, sandy clay, silty         sand, silty clay soil, excluding         transportation charges.         Rm       46.00       849.65         Rs.39,083.90								
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and collection of SPT         sampler, observation of ground         water table, spot level survey to         the bore location and carrying         out R.L. from nearest         B.M., laboratory test (particle         size analysis, hydrometer         test, liquid limit         determination, plastic limit         determination, specific gravity         determination, triaxal test, direct         shear test, unconfined         compression test, consolidation         test) including preparation of sub         soil investigation report         complete with necessary printing         and binding (minimum 5 copies)         A. Boring.         A. Boring.         (ii) Construction of 100mm         machine boring (Drilling) through         all types of cycle, sandy clay, silty         sand, silty clay soil, excluding         transportation charges.         Rm       46.00       849.65       Rs.39,083.90								
sampler, observation of ground water table, spot level survey to the bore location and carrying out R.L. from nearest B.M.,laboratory test (particle size analysis, hydrometer test, liquid limit determination, plastic limit determination, specific gravity determination, specific gravity determination, triaxal test, direct shear test, unconfined compression test, consolidation test) including preparation of sub- soil investigation report complete with necessary printing and binding (minimum 5 copies) <ul> <li>A. Boring.</li> <li>M. Boring.</li> <li>M. Boring.</li> <li>M. Boring.</li> <li>Rm 46.00 849.65 Rs.39,083.90</li> </ul>								
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out R.L. from nearest         B.M.,laboratory test (particle         size analysis,hydrometer         test,liquid limit         determination,plastic limit         determination,specific gravity         determination,triaxal test,direct         shear test,unconfined         compression test,consolidation         test) including preparation of subsoil investigation report         complete with necessary printing         and binding (minimum 5 copies)         A. Boring.         (ii) Construction of 100mm         machine boring (Drilling) through         all types of cycle,sandy clay,silty         sand, silty clay soil,excluding         transportation charges.         Rm       46.00         849.65       Rs.39,083.90								
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test) including preparation of sub- soil investigation report complete with necessary printing and binding (minimum 5 copies)       Image: Complete with necessary printing and binding (minimum 5 copies)         A. Boring.       Image: Complete with necessary printing and binding (minimum 5 copies)       Image: Complete with necessary printing and binding (minimum 5 copies)         Image: Complete with necessary printing and binding (minimum 5 copies)       Image: Complete with necessary printing and binding (minimum 5 copies)         Image: Complete with necessary printing and binding (minimum 5 copies)       Image: Complete with necessary printing and binding (minimum 5 copies)         Image: Complete with necessary printing and binding (minimum 5 copies)       Image: Complete with necessary printing and binding (minimum 5 copies)         Image: Complete with necessary printing and binding (minimum 5 copies)       Image: Complete with necessary printing and binding (minimum 5 copies)         Image: Complete with necessary printing and binding (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.       Image: Complete with necessary printing and binding (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.       Image: Complete with necessary printing and binding (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.       Image: Complete with necessary printing and binding (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.       Image: Complete with necessary printing and binding (Drilling) through all types			shear test, unconfined					
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(ii) Construction of 100mm machine boring (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges. Rm 46.00 849.65 Rs.39,083.90			• • • • •					
machine boring (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.       Rm       46.00       849.65       Rs.39,083.90			Ŭ					
machine boring (Drilling) through all types of cycle,sandy clay,silty sand,silty clay soil,excluding transportation charges.       Rm       46.00       849.65       Rs.39,083.90			(ii) Construction of 100mm					
all types of cycle,sandy clay,silty     sand,silty clay soil,excluding       transportation charges.     Rm       46.00     849.65       Rs.39,083.90								
sand,silty clay soil,excluding transportation charges. Rm 46.00 849.65 Rs.39,083.90								
transportation charges. Rm 46.00 849.65 Rs.39,083.90								
				Rm	46.00	849.65	Rs.39.083.90	
TOTAL OF CIVIL WORKS Rs.27,183,482.09			· · · · · ·		ORKS		Rs.27,183,482.09	