

SUB-STRUCTURE											
Sr No	Code No.		Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
						Rate (in Rs.)	Cost in Rs	total in Rs	Rate (in Rs.)	Cost in Rs	Total in Rs
1	2		3	4	5	6	7	8	9	10	11
28			Brick masonry work in 1:3 in sub-structure complete excluding pointing and plastering, as per drawing and Technical Specifications								
			As Per MoRT&H Specification 1300 &2200								
			Unit 1	cum							
			Taking output 1	cum							
I			Material								
(i)	0.00		Bricks 1st class	each	500.00	3.130	1565.00				
(ii)			Cement mortar 1:3 (Rate as in Item 5 A sub-analysis)	cum	0.24	2969.90	712.78				
			Total-I				2277.78				
			Contractor's profit @ 10% on 2277.78				227.78				
			Cost 1	cum			2505.56				
			Rate 1	cum			2505.56				
			Labour cess @ 1% on 2505.56				25.06				
			Total				2530.62	2530.62			2530.62
II			Labour								
(i)	L-29		Mate	day	0.06	151.44	9.09				
(ii)	L-10		Mason	day	0.80	223.36	178.69				
(iii)	L-35		Mazdoor	day	0.80	136.69	109.35				
(iv)			Labour for Cement mortar 1:3 (Rate as sub-analysis)	cum	1.20	129.08	154.90				
			Total-II				452.03				
III			Add for scaffolding @ 5 per cent of cost of material and labour				136.49				
			Total-II+III				588.52				
			sundries @ 3% on 588.52				17.66				
			Contractor's profit and overhead charges @ 21.50% on 606.18				130.33				
							736.51				
			Labour cess @ 1% on 736.51				7.37				
			Cost 1	cum			743.88				
			Rate 1	cum			743.88	743.88			743.88
			sub mountainous @ 10% on 743.88								74.39
											818.27
			Cost 1	cum				3274.50			3348.89

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B		Coursed rubble masonry (first sort )	Unit 1	cum							
		Taking output 1	1	cum							
I		Material									
(i)	0.00	Stone		cum	1.10	491.92	541.11				
(ii)	0.00	Through and bond stone (7no.x0.24mx0.24mx0.39m = 0.16 cu.m)		each	7.00	9.37	65.60				
(iii)		Cement mortar 1:3 (Rate as in Item 5)		cum	0.30	2969.90	890.97				
		Total-I					1497.68				
		Contractor's profit @ 10% on 1497.68					149.77				
		Cost 1	1	cum			1647.45				
		Rate 1	1	cum			1647.45				
		Labour cess @ 1% on 1647.45					16.47				
		Total					1663.92	1663.92			1663.92
II		Labour									
(j)	L-29	Mate		day	0.12	151.44	18.17				
(ii)	L-10	Mason		day	1.50	223.36	335.04				
(iii)	L-35	Mazdoor		day	1.50	136.69	205.04				
(iv)		Labour for Cement mortar 1:3 (Rate as sub-analysis)		cum	1.20	129.08	154.90				
		Total-II					713.15				
III		Add for scaffolding @ 5 per cent of cost of material and labour					110.54				
		Total-III					110.54				
		Total-II+III					823.69				
		sundries @ 3% on 823.69					24.71				
		Contractor's profit and overhead charges @ 21.50% on 848.4					162.41				
							1030.81				
		Labour cess @ 1% on 1030.81					10.31				
		Cost 1	1	cum			1041.12				
		Rate 1	1	cum			1041.12	1041.12			1041.12
		sub mountainous @ 10% on 1041.12									104.11
											1145.23
		Cost 1	1	cum				2705.04			2809.15

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			<b>Case II</b>										
			With Batching Plant, Transit Mixer and Concrete Pump										
				Unit 1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	399	tonne	47.88	5245.35	251147.36					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		40 mm Aggregate		cum	43.20	425.22	18369.50					
(iv)	0.00		20 mm Aggregate		cum	43.20	435.24	18802.37					
(v)	0.00		10 mm Aggregate		cum	21.60	461.32	9964.51					
			Total-I					313443.16					
			Contractor's profit @ 10% on 313443.16					31344.32					
			Cost	120	cum			344787.48					
			Rate	1	cum			2873.23					
			Labour cess @ 1% on 2873.23					28.73					
			Total					2901.96		2901.96			2901.96
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00					
	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
	2.80		Concrete Pump		hour	6	247.50	1485.00					
			Total-III					36675.00					
			Total -II+III					39932.71					
IV			Formwork @ 10 per cent of cost of concrete i.e. cost of material, labour and machinery					35337.59					
			Total -II+III+IV					75270.30					
			sundries @ 3% on 75270.3					2258.11					
			Contractor's profit and overhead charges @ 21.50% on 77528.41					16668.61					
								94197.02					
			Labour cess @ 1% on 94197.02					941.97					
			Cost	120	cum			95138.99					
			Rate	1	cum			792.82		792.82			792.82
			sub mountainous @ 10% on 792.82					79.28					79.28
													872.10
								3694.78					3774.06



			<b>Case II</b>										
			With Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	399	tonne	47.88	5245.35	251147.36					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		40 mm Aggregate		cum	43.20	425.22	18369.50					
(iv)	0.00		20 mm Aggregate		cum	43.20	435.24	18802.37					
(v)	0.00		10 mm Aggregate		cum	21.60	461.32	9964.51					
			Total-I					313443.16					
			Contractor's profit @ 10% on 313443.16					31344.32					
			Cost	120	cum			344787.48					
			Rate	1	cum			2873.23					
			Labour cess @ 1% on 2873.23					28.73					
			Total					2901.96		2901.96			2901.96
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00					
	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
	2.80		Concrete Pump		hour	6	247.50	1485.00					
			Total-III					36675.00					
			Total -II+III					39932.71					
IV			Formwork,extra lift @ 14 per cent of cost of concrete i.e. cost of material, labour and machinery					49472.62					
			Total -II+III+IV					89405.33					
			sundries @ 3% on 89405.33					2682.16					
			Contractor's profit and overhead charges @ 21.50% on 92087.49					19798.81					
								111886.30					
			Labour cess @ 1% on 111886.3					1118.86					
			Cost	120	cum			113005.16					
			Rate	1	cum			941.71		941.71			941.71
			sub mountainous @ 10% on 941.71										94.17
													1035.88
									3843.67				3937.84



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D		PCC Grade M30										
(i)		Height upto 5m										
		Same as Item 7 (F) upto 5 m height with the only change that the provision of form work shall be 10 per cent instead of 3.50 per cent of cost of material, labour and machinery.										
		Case I										
		Using Concrete Mixer										
		Unit	1	cum								
		Taking output	15	cum								
I		Material										
(i)	0.00	Cement	405	tonne	6.08	5245.35	31865.50					
(ii)	0.00	Coarse sand		cum	6.75	280.73	1894.93					
(iii)	0.00	40 mm Aggregate		cum	5.40	425.22	2296.19					
(iv)	0.00	20 mm Aggregate		cum	5.40	435.24	2350.30					
(v)	0.00	10 mm Aggregate		cum	2.70	461.32	1245.56					
		Total-I					39652.48					
		Contractor's profit @ 10% on 39652.48					3965.25					
		Cost	15	cum			43617.73					
		Rate	1	cum			2907.85					
		Labour cess @ 1% on 2907.85					29.08					
		Total					2936.93	2936.93				2936.93
II		Labour										
(i)	L-29	Mate		day	0.86	151.44	130.24					
(ii)	L-10	Mason		day	1.50	223.36	335.04					
(iii)	L-35	Mazdoor		day	20.00	136.69	2733.80					
		Total-II					3199.08					
III		Hiring charges of Machinery										
(i)	2.10	Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00					
(ii)	2.24	Generator 33 KVA		hour	6.00	360.00	2160.00					
		Total-III					3510.00					
							6709.08					
IV		Formwork @ 10 per cent of cost of concrete i.e. cost of material, labour and machinery					4636.16					
		Total -II+III+IV					11345.24					
		sundries @ 3% on 11345.24					340.36					
		Contractor's profit and overhead charges @ 21.50% on 11685.6					2512.40					
							14198.00					
		Labour cess @ 1% on 14198					141.98					
		Cost	15	cum			14339.98					
		Rate	1	cum			956.00	956.00				956.00
		sub mountainous @ 10% on 956										95.60
												1051.60
								3892.93				3988.53





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		<b>Case II</b>										
		Using Batching Plant, Transit Mixer and Concrete Pump										
			Unit 1	cum								
I		Taking output	120	cum								
(i)	0.00	<b>Material</b> Cement	405		tonne	48.60	5245.35	254924.01				
(ii)	0.00	Coarse sand			cum	54.00	280.73	15159.42				
(iii)	0.00	40 mm Aggregate			cum	43.20	425.22	18369.50				
(iv)	0.00	20 mm Aggregate			cum	43.20	435.24	18802.37				
(v)	0.00	10 mm Aggregate			cum	21.60	461.32	9964.51				
		Total-1						317219.81				
		Contractor's profit @ 10% on 317219.81						31721.98				
		Cost	120	cum				348841.79				
		Rate	1	cum				2907.85				
		Labour cess @ 1% on 2907.85						29.08				
		Total						2936.93	2936.93			2936.93
II		<b>Labour</b>										
(i)	L-29	Mate			day	0.84	151.44	127.21				
(ii)	L-10	Mason			day	3.00	223.36	670.08				
(iii)	L-35	Mazdoor			day	18.00	136.69	2460.42				
		Total-II						3257.71				
III		<b>Hiring charges of Machinery</b>										
(i)	2.30	Batching Plant @ 20 cum/hour			hour	6.00	2160.00	12960.00				
(ii)	2.22	Generator 100 KVA			hour	6.00	675.00	4050.00				
(iii)	2.19	Loader 1 cum capacity			hour	6.00	780.00	4680.00				
(iv)	2.57	Transit Mixer 4 cum capacity for lead upto 1 km.			hour	15.00	900.00	13500.00				
(v)	2.80	Concrete Pump			hour	6.00	247.50	1485.00				
		Total-III						36675.00				
								39932.71				
IV		Formwork,extra lift @ 14 per cent of cost of concrete i.e. cost of material, labour and machinery						50001.35				
		Total -II+III+IV						89934.06				
		sundries @ 3% on 89934.06						2698.02				
		Contractor's profit and overhead charges @ 21.50% on 92632.08						19915.90				
								112547.98				
		Labour cess @ 1% on 112547.98						1125.48				
		Cost	120	cum				113673.46				
		Rate	1	cum				947.28	947.28			947.28
		sub mountainous @ 10% on 947.28										94.73
												1042.01
									3884.21			3978.94

(iii)		<b>Height above 10m</b>											
		Same as Item 7 (F) with the following changes: (i) Add 4 per cent of cost of material, labour and machinery excluding form work to cater for extra lift. (ii) The provision of form work shall be 15 per cent instead of 3.50 per cent of cost of material, labour and machinery.											
		<b>Case I</b>											
		<b>Using Concrete Mixer</b>											
		Unit	1	cum									
		Taking output	15	cum									
I		<b>Material</b>											
(i)	0.00	Cement	405	tonne	6.08	5245.35	31865.50						
(ii)	0.00	Coarse sand		cum	6.75	280.73	1894.93						
(iii)	0.00	40 mm Aggregate		cum	5.40	425.22	2296.19						
(iv)	0.00	20 mm Aggregate		cum	5.40	435.24	2350.30						
(v)	0.00	10 mm Aggregate		cum	2.70	461.32	1245.56						
		Total-1					39652.48						
		Contractor's profit @ 10% on 39652.48					3965.25						
		Cost	15	cum			43617.73						
		Rate	1	cum			2907.85						
		Labour cess @ 1% on 2907.85					29.08						
		Total					2936.93	2936.93					2936.93
II		<b>Labour</b>											
(i)	L-29	Mate		day	0.86	151.44	130.24						
(ii)	L-10	Mason		day	1.50	223.36	335.04						
(iii)	L-35	Mazdoor		day	20.00	136.69	2733.80						
		Total-II					3199.08						
III		<b>Hiring charges of Machinery</b>											
(i)	2.10	Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00						
(ii)	2.24	Generator 33 KVA		hour	6.00	360.00	2160.00						
		Total-III					3510.00						
							6709.08						
IV		Formwork,extra lift @ 19 per cent of cost of concrete i.e. cost of material, labour and machinery					8808.70						
		Total -II+III+IV					15517.78						
		sundries @ 3% on 15517.78					465.53						
		Contractor's profit and overhead charges @ 21.50% on 15983.31					3436.41						
							19419.72						
		Labour cess @ 1% on 19419.72					194.20						
		Cost	15	cum			19613.92						
		Rate	1	cum			1307.59	1307.59					1307.59
		sub mountainous @ 10% on 1307.59											130.76
													1438.35
													4375.28
							4244.52						

			<b>Case II</b>									
			Using Batching Plant, Transit Mixer and Concrete Pump									
			Unit	1	cum							
I			Taking output	120	cum							
(i)	0.00		Cement	405	tonne	48.60	5245.35	254924.01				
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42				
(iii)	0.00		40 mm Aggregate		cum	43.20	425.22	18369.50				
(iv)	0.00		20 mm Aggregate		cum	43.20	435.24	18802.37				
(v)	0.00		10 mm Aggregate		cum	21.60	461.32	9964.51				
			Total-I					317219.81				
			Contractor's profit @ 10% on 317219.81					31721.98				
			Cost	120	cum			348941.79				
			Rate	1	cum			2907.85				
			Labour cess @ 1% on 2907.85					29.08				
			Total					2936.93	2936.93			2936.93
II			<b>Labour</b>									
(i)	L-29		Mate		day	0.84	151.44	127.21				
(ii)	L-10		Mason		day	3.00	223.36	670.08				
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42				
			Total-II					3257.71				
III			<b>Hiring charges of Machinery</b>									
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00				
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00				
(iii)	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00				
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00				
(v)	2.80		Concrete Pump		hour	6.00	247.50	1485.00				
			Total-III					36675.00				
								39932.71				
IV			Formwork,extra lift @ 19 per cent of cost of concrete i.e. cost of material, labour and machinery					67858.98				
			Total -II+III+IV					107791.69				
			sundries @ 3% on 107791.69					3233.75				
			Contractor's profit and overhead charges @ 21.50% on 111025.44					23870.47				
								134895.91				
			Labour cess @ 1% on 134895.91					1348.96				
			Cost	120	cum			136244.87				
			Rate	1	cum			1135.37	1135.37			1135.37
			sub mountainous @ 10% on 1135.37									113.54
												1248.91
									4072.30			4185.84

E		RCC Grade M20											
(i)		Height upto 5m											
		Same as Item 7 (C) upto 5 m height, except for formwork which shall be 10 per cent instead of 4 per cent of cost of material, labour and machinery.											
		Case I											
		Using Concrete Mixer											
		Unit	1	cum									
		Taking output	15	cum									
I		Material											
(i)	0.00	Cement	347	tonne	5.21	5245.35	27302.05						
(ii)	0.00	Coarse sand		cum	6.75	280.73	1894.93						
(iii)	0.00	20 mm Aggregate		cum	8.10	435.24	3525.44						
(iv)	0.00	10 mm Aggregate		cum	5.40	461.32	2491.13						
		Total-I					35213.55						
		Contractor's profit @ 10% on 35213.55					3521.36						
		Cost	15	cum			38734.91						
		Rate	1	cum			2582.33						
		Labour cess @ 1% on 2582.33					25.82						
		Total					2608.15	2608.15				2608.15	
II		Labour											
(i)	L-29	Mate		day	0.86	151.44	130.24						
(ii)	L-10	Mason		day	1.50	223.36	335.04						
(iii)	L-35	Mazdoor		day	20.00	136.69	2733.80						
		Total-II					3199.08						
III		Hiring charges of Machinery											
(i)	2.10	Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00						
(ii)	2.24	Generator 33 KVA		hour	6.00	360.00	2160.00						
		Total-III					3510.00						
		Total -II+III					6709.08						
IV		Formwork @ 10 per cent on cost of concrete i.e. cost of material, labour and machinery					4192.26						
		Total -II+III+IV					10901.34						
		sundries @ 3% on 10901.34					327.04						
		Contractor's profit and overhead charges @ 21.50% on 11228.38					2414.10						
							13642.48						
		Labour cess @ 1% on 13642.48					178.35						
		Cost	15	cum			13820.83						
		Rate	1	cum			921.39	921.39				921.39	
		sub mountainous @ 10% on 921.39										92.14	
												1013.53	
								3529.54				3621.68	

			<b>Case II</b>										
			With Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	347	tonne	41.64	5245.35	218416.37					
(ii)	0.00		Coarse Sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					281708.36					
			Contractor's profit @ 10% on 281708.36					28170.84					
			Cost	120	cum			309879.20					
			Rate	1	cum			2582.33					
			Labour cess @ 1% on 2582.33					25.82					
			Total					2608.15	2608.15				2608.15
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6	247.50	1485.00					
			Total-III					36675.00					
			Total -II+III					39932.71					
IV			Formwork @ 10 per cent on cost of concrete i.e. cost of material, labour and machinery					32164.11					
			Total -II+III+IV					72096.82					
			sundries @ 3% on 72096.82					2162.90					
			Contractor's profit and overhead charges @ 21.50% on 74259.72					15965.84					
								90225.56					
			Labour cess @ 1% on 90225.56					902.26					
			Cost	120	cum			91127.82					
			Rate	1	cum			759.40	759.40				759.40
			sub mountainous @ 10% on 759.4										75.94
													835.34
									3367.55				3443.49

(ii)			<b>Height 5m to 10m</b>										
			For height, upto 10m, add 2 per cent of cost as above excluding formwork. For cost of formwork add 12 per cent of cost of material, labour and machinery instead of 4 per cent .										
			<b>Case I</b>										
			Using Concrete Mixer										
				Unit	1	cum							
				Taking output	15	cum							
I			<b>Material</b>										
(i)	0.00		Cement	347		tonne	5.21	5245.35	27302.05				
(ii)	0.00		Coarse sand			cum	6.75	280.73	1894.93				
(iii)	0.00		20 mm Aggregate			cum	8.10	435.24	3525.44				
(iv)	0.00		10 mm Aggregate			cum	5.40	461.32	2491.13				
			<b>Total-I</b>						35213.55				
			Contractor's profit @ 10% on 35213.55						3521.36				
				Cost	15	cum			38734.91				
				Rate	1	cum			2582.33				
			Labour cess @ 1% on 2582.33						25.82				
			<b>Total</b>						2608.15	2608.15			2608.15
II			<b>Labour</b>										
(i)	L-29		Mate			day	0.86	151.44	130.24				
(ii)	L-10		Mason			day	1.50	223.36	335.04				
(iii)	L-35		Mazdoor			day	20.00	136.69	2733.80				
			<b>Total-II</b>						3199.08				
III			<b>Hiring charges of Machinery</b>										
(i)	2.10		Concrete mixer (cap. 0.40/0.28 cum)			hour	6.00	225.00	1350.00				
(ii)	2.24		Generator 33 KVA			hour	6.00	360.00	2160.00				
			<b>Total-III</b>						3510.00				
			<b>Total -II+III</b>						6709.08				
IV			Formwork,extra lift @ 14 per cent on cost of concrete i.e. cost of material, labour and machinery						5869.17				
			<b>Total -II+III+IV</b>						12578.25				
			sundries @ 3% on 12578.25						377.35				
			Contractor's profit and overhead charges @ 21.50% on 12955.6						2785.45				
									15741.05				
			Labour cess @ 1% on 15741.05						216.10				
				Cost	15	cum			15957.15				
				Rate	1	cum			1063.81	1063.81			1063.81
			sub mountainous @ 10% on 1063.81										106.38
													1170.19
									3671.96				3778.34

			<b>Case II</b>										
			With Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	347	tonne	41.64	5245.35	218416.37					
(ii)	0.00		Coarse Sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					281708.36					
			Contractor's profit @ 10% on 281708.36					28170.84					
			Cost	120	cum			309879.20					
			Rate	1	cum			2582.33					
			Labour cess @ 1% on 2582.33					25.82					
			Total					2608.15	2608.15				2608.15
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6	247.50	1485.00					
			Total-III					36675.00					
			Total -II+III					39932.71					
IV			Formwork,extra lift @ 14 per cent on cost of concrete i.e. cost of material, labour and machinery					45029.75					
			Total -II+III+IV					84962.46					
			sundries @ 3% on 84962.46					2548.87					
			Contractor's profit and overhead charges @ 21.50% on 87511.33					18814.94					
								106326.27					
			Labour cess @ 1% on 106326.27					1063.26					
			Cost	120	cum			107389.53					
			Rate	1	cum			894.91	894.91				894.91
			sub mountainous @ 10% on 894.91										89.49
													984.40
													3503.06
													3592.55



(iii)			<b>Height above 10m</b>										
			Same as Item 7 (E) with the following changes: (i) Add 4 per cent of cost of material, labour and machinery excluding form work to cater for extra lift. (ii) The provision of form work shall be 15 per cent instead of 4 per cent of cost of material, labour and machinery.										
			Case I										
			Using Concrete Mixer										
			Unit	1	cum								
			Taking output	15	cum								
I			<b>Material</b>										
(i)	0.00		Cement	347	tonne	5.21	5245.35	27302.05					
(ii)	0.00		Coarse sand		cum	6.75	280.73	1894.93					
(iii)	0.00		20 mm Aggregate		cum	8.10	435.24	3525.44					
(iv)	0.00		10 mm Aggregate		cum	5.40	461.32	2491.13					
			Total-I					35213.55					
			Contractor's profit @ 10% on 35213.55					3521.36					
			Cost	15	cum			38734.91					
			Rate	1	cum			2582.33					
			Labour cess @ 1% on 2582.33					25.82					
			Total					2608.15	2608.15				2608.15
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.86	151.44	130.24					
(ii)	L-10		Mason		day	1.50	223.36	335.04					
(iii)	L-35		Mazdoor		day	20.00	136.69	2733.80					
			Total-II					3199.08					
III			<b>Hiring charges of Machinery</b>										
(i)	2.10		Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00					
(ii)	2.24		Generator 33 KVA		hour	6.00	360.00	2160.00					
			Total-III					3510.00					
			Total -II+III					6709.08					
IV			Formwork, extra lift @ 19 per cent on cost of concrete i.e. cost of material, labour and machinery					7965.30					
			Total -II+III+IV					14674.38					
			sundries @ 3% on 14674.38					440.23					
			Contractor's profit and overhead charges @ 21.50% on 15114.61					3249.64					
								18364.25					
			Labour cess @ 1% on 18364.25					263.30					
			Cost	15	cum			18627.55					
			Rate	1	cum			1241.84	1241.84				1241.84
			sub mountainous @ 10% on 1241.84										124.18
													1366.02
									3849.99				3974.17



[illegible]

			<b>Case II</b>										
			With Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	403	tonne	48.36	5245.35	253665.13					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					316957.12					
			Contractor's profit @ 10% on 316957.12					31695.71					
			Cost	120	cum			348652.83					
			Rate	1	cum			2905.44					
			Labour cess @ 1% on 2905.44					29.05					
			Total					2934.49	2934.49				2934.49
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader 1 cum capacity 1 cum		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6.00	247.50	1485.00					
			Total-III					36675.00					
								39932.71					
IV			Formwork @ 10 per cent of cost of concrete i.e. cost of material, labour and machinery					35688.98					
			Total -II+III+IV					75621.69					
			sundries @ 3% on 75621.69					2268.65					
			Contractor's profit and overhead charges @ 21.50% on 77890.34					16746.42					
								94636.76					
			Labour cess @ 1% on 94636.76					946.37					
			Cost	120	cum			95583.13					
			Rate	1	cum			796.53	796.53				796.53
			sub mountainous @ 10% on 796.53										79.65
													876.18
									3731.02				3810.67

(ii)			<b>Height 5m to 10m</b> For height, upto 10m, add 1.8 per cent of cost as above excluding formwork. For cost of formwork add 11.8 per cent of cost of material, labour and machinery Case I Using Concrete Mixer								
			Unit 1	cum							
			Taking output 15	cum							
I			<b>Material</b>								
(i)	0.00	Cement	403	tonne	6.05	5245.35	31708.14				
(ii)	0.00	Coarse sand		cum	6.75	280.73	1894.93				
(iii)	0.00	20 mm Aggregate		cum	8.10	435.24	3525.44				
(iv)	0.00	10 mm Aggregate		cum	5.40	461.32	2491.13				
		Total-I					39619.64				
		Contractor's profit @ 10% on 39619.64					3961.96				
		Cost 15	cum				43581.60				
		Rate 1	cum				2905.44				
		Labour cess @ 1% on 2905.44					29.05				
		Total					2934.49	2934.49			2934.49
II		<b>Labour</b>									
(i)	L-29	Mate		day	0.86	151.44	130.24				
(ii)	L-10	Mason		day	1.50	223.36	335.04				
(iii)	L-35	Mazdoor		day	20.00	136.69	2733.80				
		Total-II					3199.08				
III		<b>Hiring charges of Machinery</b>									
(i)	2.10	Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00				
(ii)	2.24	Generator 33 KVA		hour	6.00	360.00	2160.00				
		Total-III					3510.00				
							6709.08				
IV		Formwork,extra lift @ 13.6 per cent on cost of concrete i.e. cost of material, labour and machinery					6300.71				
		Total -II+III+IV					13009.79				
		sundries @ 3% on 13009.79					390.29				
		Contractor's profit and overhead charges @ 21.50% on 13400.08					2881.02				
							16281.10				
		Labour cess @ 1% on 16281.1					162.81				
		Cost 15	cum				16443.91				
		Rate 1	cum				1096.26	1096.26			1096.26
		sub mountainous @ 10% on 1096.26									109.63
											1205.89
								4030.75			4140.38





			<b>Case II</b>										
			With Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	403	tonne	48.36	5245.35	253665.13					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					316957.12					
			Contractor's profit @ 10% on 316957.12					31695.71					
			Cost	120	cum			348652.83					
			Rate	1	cum			2905.44					
			Labour cess @ 1% on 2905.44					29.05					
			Total					2934.49	2934.49				2934.49
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader 1 cum capacity 1 cum		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6.00	247.50	1485.00					
			Total-III					36675.00					
								39932.71					
IV			Formwork,extra lift @ 19 per cent of cost of concrete i.e. cost of material, labour and machinery					67809.07					
			Total -II+III+IV					107741.78					
			sundries @ 3% on 107741.78					3232.25					
			Contractor's profit and overhead charges @ 21.50% on 110974.03					23859.42					
								134833.45					
			Labour cess @ 1% on 134833.45					1348.33					
			Cost	120	cum			136181.78					
			Rate	1	cum			1134.85	1134.85				1134.85
			sub mountainous @ 10% on 1134.85										113.49
													1248.34
									4069.34				4182.83



[illegible]



(ii)			<b>Height 5m to 10m</b>										
			For height, upto 10m, add 1.6 per cent of cost as above excluding formwork. For cost of formwork add 11.5 per cent of cost of material, labour and machinery										
			Case I										
			Using Concrete Mixer										
			Unit	1	cum								
			Taking output	15	cum								
I			<b>Material</b>										
(i)	0.00		Cement	407	tonne	6.11	5245.35	32022.86					
(ii)	0.00		Coarse sand		cum	6.75	280.73	1894.93					
(iii)	0.00		20 mm Aggregate		cum	8.10	435.24	3525.44					
(iv)	0.00		10 mm Aggregate		cum	5.40	461.32	2491.13					
			Total-I					39934.36					
			Contractor's profit @ 10% on 39934.36					3993.44					
			Cost	15	cum			43927.80					
			Rate	1	cum			2928.52					
			Labour cess @ 1% on 2928.52					29.29					
			Total					2957.81	2957.81				2957.81
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.86	151.44	130.24					
(ii)	L-10		Mason		day	1.50	223.36	335.04					
(iii)	L-35		Mazdoor		day	20.00	136.69	2733.80					
			Total-II					3199.08					
III			<b>Hiring charges of Machinery</b>										
(i)	2.10		Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00					
(ii)	2.24		Generator 33 KVA		hour	6.00	360.00	2160.00					
			Total-III					3510.00					
								6709.08					
IV			Formwork,extra lift @ 13.10 per cent on cost of concrete i.e. cost of material, labour and machinery					6110.29					
			Total -II+III+IV					12819.37					
			sundries @ 3% on 12819.37					384.58					
			Contractor's profit and overhead charges @ 21.50% on 13203.95					2838.85					
								16042.80					
			Labour cess @ 1% on 16042.8					160.43					
			Cost	15	cum			16203.23					
			Rate	1	cum			1080.22					
			sub mountainous @ 10% on 1080.22						1080.22				1080.22
													1188.24
									4038.03				4146.05





			<b>Case II</b>										
			Using Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	407	tonne	48.84	5245.35	256182.89					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					319474.88					
			Contractor's profit @ 10% on 319474.88					31947.49					
			Cost	120	cum			351422.37					
			Rate	1	cum			2928.52					
			Labour cess @ 1% on 2928.52					29.29					
			Total					2957.81	2957.81				2957.81
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6.00	247.50	1485.00					
			Total-III					36675.00					
								39932.71					
IV			Formwork,extra lift @ 17.50 per cent of cost of concrete i.e. cost of material, labour and machinery					62896.33					
			Total -II+III+IV					102829.04					
			sundries @ 3% on 102829.04					3084.87					
			Contractor's profit and overhead charges @ 21.50% on 105913.91					22771.49					
								128685.40					
			Labour cess @ 1% on 128685.4					1286.85					
			Cost	120	cum			129972.25					
			Rate	1	cum			1083.10	1083.10				1083.10
			sub mountainous @ 10% on 1083.1										108.31
													1191.41
									4040.91				4149.22

H		RCC Grade M-35											
(i)		Height upto 5m											
		Same as Item 7 (H) upto 5m height, excluding formwork. For cost of formwork, add 10 per cent of cost of material, labour and machinery instead of 3.00 per cent.											
		<b>Case I</b>											
		Using Concrete Mixer											
			Unit	1	cum								
			Taking output	15	cum								
I		<b>Material</b>											
(i)	0.00	Cement	422		tonne	6.33	5245.35	33203.07					
(ii)	0.00	Coarse sand			cum	6.75	280.73	1894.93					
(iii)	0.00	20 mm Aggregate			cum	8.10	435.24	3525.44					
(iv)	0.00	10 mm Aggregate			cum	5.40	461.32	2491.13					
		Total-I						41114.57					
		Contractor's profit @ 10% on 41114.57						4111.46					
			Cost	15	cum			45226.03					
			Rate	1	cum			3015.07					
		Labour cess @ 1% on 3015.07						30.15					
		Total						3045.22	3045.22				3045.22
II		<b>Labour</b>											
(i)	L-29	Mate			day	0.86	151.44	130.24					
(ii)	L-10	Mason			day	1.50	223.36	335.04					
(iii)	L-35	Mazdoor			day	20.00	136.69	2733.80					
		Total-II						3199.08					
III		<b>Hiring charges of Machinery</b>											
(i)	2.10	Concrete mixer (cap. 0.40/0.28 cum)			hour	6.00	225.00	1350.00					
(ii)	2.24	Generator 33 KVA			hour	6.00	360.00	2160.00					
		Total-III						3510.00					
								6709.08					
IV		Formwork @ 10 per cent on cost of concrete i.e. cost of material, labour and machinery						4782.37					
		Total -II+III+IV						11491.45					
		sundries @ 3% on 11491.45						344.74					
		Contractor's profit and overhead charges @ 21.50% on 11836.19						2544.78					
								14380.97					
		Labour cess @ 1% on 14380.97						143.81					
			Cost	15	cum			14524.78					
			Rate	1	cum			968.32	968.32				968.32
		sub mountainous @ 10% on 968.32											96.83
													1065.15
									4013.54				4110.37

			<b>Case II</b>										
			Using Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			<b>Material</b>										
(i)	0.00		Cement	422	tonne	50.64	5245.35	265624.52					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					328916.51					
			Contractor's profit @ 10% on 328916.51					32891.65					
			Cost	120	cum			361808.16					
			Rate	1	cum			3015.07					
			Labour cess @ 1% on 3015.07					30.15					
			Total					3045.22	3045.22				3045.22
II			<b>Labour</b>										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			<b>Hiring charges of Machinery</b>										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader 1 cum capacity		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6.00	247.50	1485.00					
			Total-III					36675.00					
								39932.71					
IV			Formwork @ 10 per cent of cost of concrete i.e. cost of material, labour and machinery					36884.92					
			Total -II+III+IV					76817.63					
			sundries @ 3% on 76817.63					2304.53					
			Contractor's profit and overhead charges @ 21.50% on 79122.16					17011.26					
								96133.42					
			Labour cess @ 1% on 96133.42					961.33					
			Cost	120	cum			97094.75					
			Rate	1	cum			809.12	809.12				809.12
			sub mountainous @ 10% on 809.12										80.91
													890.03
									3854.34				3935.25



(ii)			<b>Height 5m to 10m</b>									
			For height, upto 10m, add 1.4 per cent of cost as above excluding formwork. For cost of formwork add 11 per cent of cost of material, labour and machinery .									
			<b>Case I</b>									
			Using Concrete Mixer									
			Unit 1	cum								
			Taking output 15	cum								
I			<b>Material</b>									
(i)	0.00	Cement	422	tonne	6.33	5245.35	33203.07					
(ii)	0.00	Coarse sand		cum	6.75	280.73	1894.93					
(iii)	0.00	20 mm Aggregate		cum	8.10	435.24	3525.44					
(iv)	0.00	10 mm Aggregate		cum	5.40	461.32	2491.13					
		Total-I					41114.57					
		Contractor's profit @ 10% on 41114.57					4111.46					
		Cost	15	cum			45226.03					
		Rate	1	cum			3015.07					
		Labour cess @ 1% on 3015.07					30.15					
		Total					3045.22	3045.22				3045.22
II		<b>Labour</b>										
(i)	L-29	Mate		day	0.86	151.44	130.24					
(ii)	L-10	Mason		day	1.50	223.36	335.04					
(iii)	L-35	Mazdoor		day	20.00	136.69	2733.80					
		Total-II					3199.08					
III		<b>Hiring charges of Machinery</b>										
(i)	2.10	Concrete mixer (cap. 0.40/0.28 cum)		hour	6.00	225.00	1350.00					
(ii)	2.24	Generator 33 KVA		hour	6.00	360.00	2160.00					
		Total-III					3510.00					
							6709.08					
IV		Formwork,extra lift @ 12.40 per cent on cost of concrete i.e. cost of material, labour and machinery					5930.13					
		Total -II+III+IV					12639.21					
		sundries @ 3% on 12639.21					379.18					
		Contractor's profit and overhead charges @ 21.50% on 13018.39					2798.95					
							15817.34					
		Labour cess @ 1% on 15817.34					158.17					
		Cost	15	cum			15975.51					
		Rate	1	cum			1065.03	1065.03				1065.03
		sub mountainous @ 10% on 1065.03										106.50
												1171.53
								4110.25				4216.75

			Case II										
			Using Batching Plant, Transit Mixer and Concrete Pump										
			Unit	1	cum								
			Taking output	120	cum								
I			Material										
(i)	0.00		Cement	422	tonne	50.64	5245.35	265624.52					
(ii)	0.00		Coarse sand		cum	54.00	280.73	15159.42					
(iii)	0.00		20 mm Aggregate		cum	64.80	435.24	28203.55					
(iv)	0.00		10 mm Aggregate		cum	43.20	461.32	19929.02					
			Total-I					328916.51					
			Contractor's profit @ 10% on 328916.51					32891.65					
			Cost	120	cum			361808.16					
			Rate	1	cum			3015.07					
			Labour cess @ 1% on 3015.07					30.15					
			Total					3045.22	3045.22				3045.22
II			Labour										
(i)	L-29		Mate		day	0.84	151.44	127.21					
(ii)	L-10		Mason		day	3.00	223.36	670.08					
(iii)	L-35		Mazdoor		day	18.00	136.69	2460.42					
			Total-II					3257.71					
III			Hiring charges of Machinery										
(i)	2.30		Batching Plant @ 20 cum/hour		hour	6.00	2160.00	12960.00					
(ii)	2.22		Generator 100 KVA		hour	6.00	675.00	4050.00					
(iii)	2.19		Loader1 cum capacity		hour	6.00	780.00	4680.00					
(iv)	2.57		Transit Mixer 4 cum capacity for lead upto 1 km.		hour	15.00	900.00	13500.00					
(v)	2.80		Concrete Pump		hour	6.00	247.50	1485.00					
			Total-III					36675.00					
								39932.71					
IV			Formwork,extra lift @ 12.40 per cent of cost of concrete i.e. cost of material, labour and machinery					45737.30					
			Total -II+III+IV					85670.01					
			sundries @ 3% on 85670.01					2570.10					
			Contractor's profit and overhead charges @ 21.50% on 88240.11					18971.62					
								107211.73					
			Labour cess @ 1% on 107211.73					1072.12					
			Cost	120	cum			108283.85					
			Rate	1	cum			902.37	902.37				902.37
			sub mountainous @ 10% on 902.37										90.24
													992.61
									3947.59				4037.83



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<b>B</b>		<b>Sandy material</b>										
<b>I</b>		<b>Material</b>										
(i)	0.00	Sand			cum	12.00	200.59	2407.08				
		<b>Total-I</b>						2407.08				
		Contractor's profit @ 10% on 2407.08						240.71				
		Cost	10	cum				2647.79				
		Rate	1	cum				264.78				
		Labour cess @ 1% on 264.78						2.65				
		Total						267.43	267.43			267.43
<b>II</b>		<b>Labour</b>										
(i)	L-29	Mate			day	0.28	151.44	42.40				
(ii)	L-35	Mazdoor			day	7.00	136.69	956.83				
		<b>Total-II</b>						999.23				
<b>III</b>		<b>Machinery</b>										
(i)	2.48	Plate compactor/power rammer			hour	2.50	90.00	225.00				
(ii)	2.67	Water Tanker			hour	0.05	140.40	7.02				
		<b>Total-III</b>						232.02				
								1231.25				
		sundries @ 3% on 1231.25						36.94				
		Contractor's profit and overhead charges @ 21.50% on 1268.19						272.66				
								1540.85				
		Labour cess @ 1% on 1540.85						15.41				
			10	cum				1556.26				
		Cost	1	cum				155.63	155.63			155.63
		sub mountainous @ 10% on 155.63										15.56
												171.19
									423.06			438.62



[illegible]

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40			Supplying, fitting and fixing in position true to line and level sliding plate bearing with PTFE surface sliding on stainless steel complete including all accessories as per drawing and Technical Specifications and BS: 5400, section 9.1 & 9.2 (for PTFE) and clause 2004 of MoRTH Specifications.										
			As Per MoRTH Specification 2000 & 2200										
			Unit	1	Tonne								
			Taking output	80	Tonne								
I	0.00		<b>Material</b>										
			PTFE sliding plate bearing assembly of 80 tonnes design load capacity duly painted complete with all its components as per drawing and Technical Specifications			each.	1.00	15440.67	15440.67				
			Add 1 per cent for foundation anchorage bolts and consumables.						154.41				
			<b>Total-I</b>						15595.08				
			Contractor's profit @ 10% on 15595.0767						1559.51				
			Cost	80	Tonne				17154.59				
			Rate	1	Tonne				214.43				
			Labour cess @ 1% on 214.43						2.14				
			<b>Total</b>						216.57	216.57			216.57
II			<b>Labour</b>										
(i)	L-29		Mate			day	0.06	151.44	9.09				
(ii)	L-35		Mazdoor			day	1.00	136.69	136.69				
(iii)	L-31		Mazdoor (Skilled)			day	0.50	164.69	82.35				
			<b>Total-II</b>						228.13				
			sundries @ 3% on 228.13						6.84				
			Contractor's profit and overhead charges @ 21.50% on 234.97						50.52				
									285.49				
			Labour cess @ 1% on 285.49						2.85				
				80	Tonne				288.34				
			Cost	1	Tonne				3.60	3.60			3.60
			sub mountainous @ 10% on 3.6										0.36
													3.96
									220.17				220.53

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43			<b>Elastomeric Slab Steel Expansion Joint</b>										
			Providing and laying of an elastomeric slab steel expansion joint, catering to right or skew (less than 20 deg., moderately curved with maximum horizontal movement upto 50 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation and clause 2606 of MoRTH specifications for road & bridge works.										
			<b>As Per MoRTH Specification 2606</b>										
			Unit	1	M								
			Taking output	12	M								
I			<b>Material</b>										
	0.00		Supply of elastomeric slab seal expansion joint assembly manufactured by using chloroprene, elastomer for elastomeric slab unit conforming to clause 915.1 of IRC: 83 (part II), complete as per approved drawings and standard specification conforming to clause 2606 of MoRTH Specification			metre	12.00	12867.23	154406.70				
			Add 5 per cent of cost of material for anchorage reinforcement, welding and other incidentals.						7720.34				
			<b>Total-I</b>						162127.04				
			Contractor's profit @ 10% on 162127.04						16212.70				
			Cost	12	m				178339.74				
			Rate	1	m				14861.65				
			Labour cess @ 1% on 14861.65						148.62				
			Total						15010.27	15010.27			15010.27
II			<b>Labour</b>										
(i)	L-29		Mate			day	0.06	151.44	9.09				
(ii)	L-35		Mazdoor			day	1.00	136.69	136.69				
(iii)	L-31		Mazdoor (Skilled)			day	0.50	164.69	82.35				
			<b>Total-II</b>						228.13				
			sundries @ 3% on 228.13						6.84				
			Contractor's profit and overhead charges @ 21.50% on 234.97						50.52				
									285.49				
			Labour cess @ 1% on 285.49						2.85				
						12 m			288.34				
			Cost	1	m				24.03	24.03			24.03
			sub mountainous @ 10% on 24.03										2.40
													26.43
									15034.30				15036.70



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45			<b>Strip Seal Expansion Joint</b>										
			Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.										
			<b>As Per MoRT&amp;H Specification 2607</b>										
			Unit	1	M								
			Taking output	12	M								
I			<b>Material</b>										
	0.00		Supply of complete assembly of strip seal expansion joint comprising of edge beams, anchorage, strip seal element and complete accessories as per approved specifications and drawings.			metre	12.00	6433.61	77203.35				
			Add 5 per cent of cost of material for anchorage reinforcement, welding and other incidentals.						3860.17				
			<b>Total-I</b>						81063.52				
			Contractor's profit @ 10% on 81063.52						8106.35				
			Cost	12	m				89169.87				
			Rate	1	m				7430.82				
			Labour cess @ 1% on 7430.82						74.31				
			Total						7505.13	7505.13			7505.13
II			<b>Labour</b>										
(i)	L-29		Mate			day	0.050	151.44	7.57				
(ii)	L-35		Mazdoor			day	1.00	136.69	136.69				
(iii)	L-31		Mazdoor (Skilled)			day	0.25	164.69	41.17				
			<b>Total-II</b>						185.43				
			sundries @ 3% on 185.43						5.56				
			Contractor's profit and overhead charges @ 21.50% on 190.99						41.06				
									232.05				
			Labour cess @ 1% on 232.05						2.32				
				12	m				234.37				
			Cost	1	m				19.53	19.53			19.53
			sub mountainous @ 10% on 19.53										1.95
													21.48
										7524.66			7526.61
			<b>Note</b>										
			1. The installation shall be done by the manufacturer or his authorised representative to the satisfaction of the Engineer.										
			2. The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC deck.										

46			<b>Modular Strip / Box Seal Joint</b>										
			Providing and laying of a modular strip Box seal expansion joint including anchorage catering to a horizontal movement beyond 70 mm and upto 140mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.										
			<b>As Per MoRT&amp;H Specification 2600</b>										
			Unit	1		M							
			Taking output	12		M							
I			<b>Material</b>										
	0.00		Supply of a modular strip/box seal joint assembly comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorised representative			metre	12.00	41175.12	494101.44				
			<b>Total-I</b>						494101.44				
			Contractor's profit @ 10% on 494101.44						49410.14				
			Cost	12	m				543511.58				
			Rate	1	m				45292.63				
			Labour cess @ 1% on 45292.63						452.93				
			Total						45745.56	45745.56			45745.56
II			<b>Labour</b>										
(i)	L-29		Mate			day	0.560	151.44	84.81				
(ii)	L-35		Mazdoor			day	1.00	136.69	136.69				
(iii)	L-31		Mazdoor (Skilled)			day	0.40	164.69	65.88				
			<b>Total-II</b>						287.38				
			sundries @ 3% on 287.38						8.62				
			Contractor's profit and overhead charges @ 21.50% on 296						63.64				
									359.64				
			Labour cess @ 1% on 359.64						3.60				
			Cost	12	m				363.24				
			sub mountainous @ 10% on 30.27	1	m				30.27	30.27			30.27
													3.03
													33.30
										45775.83			45778.86
			<b>Note</b>										
			1. The installation shall be done by the manufacturer or his authorised representative to the satisfaction of the Engineer.										
			2. The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC deck.										
			3. The anchoring bars of the expansion joint assembly shall be welded to the main reinforcement of the deck.										

47			<b>Modular Strip / Box Seal Joint</b>										
			Providing and laying of a modular strip box seal expansion joint catering to a horizontal movement beyond 140mm and upto 210mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.										
			<b>As Per MoRT&amp;H Specification 2600</b>										
			Unit	1	M								
			Taking output	12	M								
I			<b>Material</b>										
	0.00		Supply of a modular box/box seal joint assembly containing 3 modules/cells and comprising of edge beams, two central beams, chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer or his authorised representative.			metre	12.00	102937.80	1235253.60				
			<b>Total-I</b>						1235253.60				
			Contractor's profit @ 10% on 1235253.6						123525.36				
			Cost	12	m				1358778.96				
			Rate	1	m				113231.58				
			Labour cess @ 1% on 113231.58						1132.32				
			Total						114363.90	114363.90			114363.90
II			<b>Labour</b>										
(i)	L-29		Mate			day	0.070	151.44	10.60				
(ii)	L-35		Mazdoor			day	1.25	136.69	170.86				
(iii)	L-31		Mazdoor (Skilled)			day	0.50	164.69	82.35				
			<b>Total-II</b>						263.81				
			sundries @ 3% on 263.81						7.91				
			Contractor's profit and overhead charges @ 21.50% on 271.72						58.42				
									330.14				
			Labour cess @ 1% on 330.14						3.30				
				12	m				333.44				
			Cost	1	m				27.79	27.79			27.79
			sub mountainous @ 10% on 27.79										2.78
													30.57
										114391.69			114394.47
			<b>Note</b>										
			1. The installation shall be done by the manufacturer or his authorised representative to the satisfaction of the Engineer.										
			2. The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC deck.										
			3. The anchoring bars of the expansion joint assembly shall be welded to the main reinforcement of the deck.										

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Dismantling RCC work any part of bridge structure including cutting, strengthening stacking of reinforcement and disposal of dismantled material with all lifts and lead upto 1.0 km.

I

**Machinery**

3 Air compressor 250 cfm with pneumatic breaker/ jack hammer along with accessories Hr. 2.00 655.00 1310.00

#REF! Tractor trolley Hr. 0.5 351.00 175.50

Total I 1485.50

			Contractor's profit @ 10% on 1485.5						148.55				
				Cost 1	cum				1634.05				
				Rate 1	cum				1634.05				
			Labour cess @ 1% on 1634.05						16.34				
			Total						1650.39	1650.39			1650.39

II

**Labour**

L-29 Mate day 0.08 151.44 12.12

L-31 Skilled Mazdoor day 1.33 164.69 219.04

231.15

			sundries @ 3% on 231.1529						6.93				
			Contractor's profit and overhead charges @ 21.50% on 238.08						51.19				
									289.27				
			Labour cess @ 1% on 289.27						2.89				
					f cum				292.16				
				Cost 1	cum				292.16	292.16			292.16
			sub mountainous @ 10% on 292.16										29.22
													321.38
										1942.55			1971.77