

	Mason Gr I	0.50	nos	279.00	139.50	
					2598.50	
	Add Overhead charge & C.P@15%				389.78	
					2988.28	
	Add cess@1%				29.88	
					3018.16	301.82
		Say	Rs	301.80	Per M ³	
5.1.14	Earth work in excavation in hard rock (vide classification of soil item D) where blasting is needed with initial lead of 10 M and lift of 1.5M including dressing , making the sides in profile and dressing the bed in proper grade etc. all complete as per specifications and direction of E/I.					
	Unit :- Per Cum					
	Taking Out put =10Cum					
	Labour					
	Hammer man	10.50	nos	220.00	2310.00	
	Unskilled mazdoor for all work	10.00	nos	206.00	2060.00	
	Mason Gr I	0.33	nos	279.00	92.07	
	Blaster	0.67	nos	347.00	231.33	
	Materials					
	Blasting material including excise, sales tax, carriage from Gomia to work site, storage etc.					
	Special Gelatin	2.00	Kg	928.10	1856.20	
	Detonator	10	nos	6.52	65.19	
	Fuse coil	1	nos	15.61	15.61	
	Tools and Plants					
	Cost of hire charge of compressor, drilling equipment and other accessories				15.00	
					6645.40	
	Add Overhead charge & C.P@15%				996.81	
					7642.21	
	Add cess @1%				76.42	
					7718.64	771.86
		Say	Rs	771.90	Per M ³	
5.1.15	Earth work in excavation in hard rock (vide classification of soil item D) where blasting is needed with initial lead of 30 M and lift of 1.5M including dressing , making the sides in proper profile and dressing the bed in proper grade as well as fine dressing of side and slopes etc. all complete as per specifications and direction of					
	Unit :- Per Cum					
	Taking Out put =10 Cum					
	Labour					
	Hammer man	10.50	nos	220.00	2310.00	
	Unskilled mazdoor for all work	10.50	nos	206.00	2163.00	
	Mason Gr I	0.33	nos	279.00	92.07	
	Blaster	0.67	nos	347.00	231.33	
	Materials					
	Blasting material including excise, sales tax, carriage from Gomia to work site, storage etc.					

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



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	Special Gelatin	2.00	Kg	928.10	1856.20	
	Detonator	10	nos	6.52	65.19	
	Fuse coil	1	nos	15.61	15.61	
	Tools and Plants					
	Cost of hire charge of compressor, drilling equipment and other accessories				15.00	
					6748.40	
	Add Overhead charge & C.P @15%				1012.26	
					7760.66	
	Add cess @1%				77.61	
					7838.27	783.83
		Say	Rs	783.80	Per M ³	
5.1.16	Earth work in excavation of water course in ordinary soil with all lead and lift including clod breaking ,rough dressing all complete as per specifications and direction of E/I.					
	As per labour deptt .Norms (Vide T.E.C no 63 dt 7.10.94)					
	Unit :- Per Cum					
	Taking Out put =28.32 Cum					
	Unskilled mazdoor for cutting, carrying	9.09	nos	206.00	1872.54	
					1872.54	
	Add Overhead charge & C.P @15%				280.88	
					2153.42	
	Add cess @1%				21.53	
					2174.96	76.80
	Add Royalty on Earth					22.00
						98.80
		Say	Rs	98.80	Per M ³	
5.1.17	Earth work in maintenance of canals having discharge less than 28 cumecs (1000 cusecs) in ordinary soil (vide classification of soil item A) including clod breaking and rough dressing of soil with all leads and lift all complete as per specifications and direction of E/I.					
	As per labour deptt .Norms (Vide T.E.C no 63 dt 7.10.94)					
	Unit :- Per Cum					
	Taking Out put = 28.32 Cum					
	Unskilled mazdoor for cutting, carrying	9.09	nos	206.00	1872.54	
					1872.54	
	Add Overhead charge & C.P @15%				280.88	
					2153.42	
	Add cess@1%				21.53	
					2174.96	76.80
	Add Royalty on Earth					22.00
						98.80
		Say	Rs	98.80	Per M ³	







5.1.18	Earth work in bed clearance or desilting of canals carrying full supply discharge of 28 cumecs (1000 cusecs) or more in dead courses of river etc. in ordinary soil and removing the excavated earth in proper profile in spoils etc.with an initial lead of 30 M and lift of 1.5 M all complete as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =28.32 Cum					
	Unskilled mazdoor for cutting	5	nos	206.00	1030.00	
	Unskilled mazdoor for carrying	4	nos	206.00	824.00	
	Mate	0.25	nos	225.00	56.25	
					1910.25	
	Add Overhead charge & C.P @15%				286.54	
					2196.79	
	Add cess@1%				21.97	
					2218.76	78.35
	Add Royalty on Earth					22.00
						100.35
		Say	Rs	100.30	Per M ³	
5.1.19	Earth work in bed clearance or desilting of canals having full supply discharge between of 28 cumecs (1000 cusecs) and 8.5cumecs (300 Cusecs) including rough dressing .with all lead and lift all complete as per specifications and					
	As per labour deptt .Norms (Vide T.E.C no 63 dt 7.10.94)					
	Unit :- Per Cum					
	Taking Out put=28.32 Cum					
	Unskilled mazdoor for cutting, carrying	9.09	nos	206.00	1872.54	
					1872.54	
	Add Overhead charge & C.P @15%				280.88	
					2153.42	
	Add cess @1%				21.53	
					2174.96	76.80
	Add Royalty on Earth					22.00
						98.80
		Say	Rs	98.80	Per M ³	
5.1.20	Earth work in bed clearance or desilting of canals having full supply discharge between 8.5 cumecs (300 cusecs) and 0.14cumecs (5Cusecs) and renovation of pynes etc. in ordinary soil and disposal of excavated earth etc.including rough dressing .with all lead and lift all complete as per specifications and direction of E/I.					
	As per labour deptt .Norms (Vide T.E.C no 63 dt 7.10.94)					
	Unit :-Per Cum					
	Taking Out put=28.32 Cum					
	Unskilled mazdoor for cutting, carrying	9.09	nos	206.00	1872.54	
					1872.54	
	Add Overhead charge & C.P@15%				280.88	
					2153.42	
	Add cess@1%				21.53	







					2174.96	76.80
	Add Royalty on Earth					22.00
						98.80
		Say	Rs	98.80	Per M ³	
5.1.21	canal in ordinary soil with initial lead of 30 M and lift of 1.5 M including the cost of formation of sub grade of canal lining, profiling, leveling, controlling of slopes and fine dressing, disposal of excavated earth and nominal dewatering if any all complete as per approved design, specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=28.32 Cum					
	Unskilled mazdoor for cutting	4	nos	206.00	824.00	
	Unskilled mazdoor for carrying	4	nos	206.00	824.00	
	Unskilled mazdoor for controlling slope and fine dressing	2	nos	206.00	412.00	
	Skilled mazdoor	0.25	nos	262.00	65.50	
	Mate	1	nos	225.00	225.00	
					2350.50	
	Add Overhead charge & C.P@15%				352.58	
					2703.08	
	Add cuss @1%				27.03	
					2730.11	96.40
		Say	Rs	96.40	Per M ³	
5.1.22	Extra for wet earth all complete as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =28.32 Cum					
	Unskilled mazdoor	1	nos	206.00	206.00	
					206.00	
	Add Overhead charge & C.P@15%				30.90	
					236.90	
	Add cess @1%				2.37	
					239.27	8.45
		Say	Rs	8.40	Per M ³	
5.1.23	Earth work in excavation of filling of E.R.P.set channels, tube well channels (lined or unlined) in ordinary soil with all lead and lift including clod breaking, dressing of sides of banks etc. all complete as per specifications and direction of E/I.					
	As per labour deptt. Norms (Vide T.E.C no 63 dt 7.10.94)					
	Unit :-Per Cum					
	Taking Out put=28.32 Cum					
	Unskilled mazdoor for cutting, carrying	9.09	nose	206.00	1872.54	
					1872.54	
	Add Overhead charge & C.P @15%				280.88	
					2153.42	
	Add cess@1%				21.53	
					2174.96	76.80
	Add Royalty on Earth					22.00
						98.80




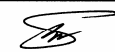





		Say	Rs	98.80	Per M ³	
5.1.24	Earth work in filling in flood embankment ,canal banks (canals discharge above 28 cumecs)as well as special repairs of embankment and canal banks in ordinary soil in proper profile (vide classification of soil item A) obtained from borrow area or any other source free from logs, roots or any other ingredients etc. with initial lead of 30 M and initial lift of 1.5M including breaking the clods to maximum 60 mm.cube ,placing the earth in layers not exceeding 225 mm, thick all complete as per specifications and direction of E/I. (mode of measurement-sectional measurement of compacted earth)					
	Unit :-Per Cum					
	Taking Out put =28.32 Cum					
	Unskilled mazdoor for cutting	9	nos	206.00	1854.00	
	Skilled mazdoor	1	nos	262.00	262.00	
	Mate	0.25	nos	225.00	56.25	
					2172.25	
	Add Overhead charge & C.P@15%				325.84	
					2498.09	
	Add cess@1%				24.98	
					2523.07	89.09
	Add Royalty on Earth					22.00
						111.09
		Say	Rs	111.10	Per M ³	
5.1.25	Earth work in filling in canal banks (canals discharge up to 28 cumecs)as well as special repairs of canal banks in ordinary soil in proper profile (vide classification of soil item A) obtained from borrow area or any other source, free from logs, roots or any other ingredients etc. with initial lead of 30M and initial lift of 1.5 M including breaking the clods to maximum 60 mm.cube ,placing the earth in layers not exceeding 225mm, thick all complete as per specifications and direction of E/I. (mode of measurement-sectional measurement of compacted earth)					
	As per labour deptt .Norms (Vide T.E.C no 63 dt 7.10.94)					
	Unit :- Per Cum					
	Taking Out put =28.32 Cum					
	Unskilled mazdoor for cutting, carrying	9.09	nos	206.00	1872.54	
	Add extra wag of 1/2 no unskilled labour per 28.32 M	0.5	nos	206.00	103.00	
					1975.54	
	Add Overhead charge & C.P@15%				296.33	
					2271.87	
	Add cess@1%				22.72	
					2294.59	81.02
	Add Royalty on Earth					22.00
						103.02
		Say	Rs	103.00	Per M ³	








5.1.26	Deleted						
5.1.27	Earth work in excavation of foundation trenches in ordinary soil (vide classification of soil item A) and disposal of excavated earth so obtained to a distance up to 50 M and average lift of 1.5 M including leveling , ramming the foundation trenches, removing the roots of shrubs etc. all complete as per specifications and direction of E/I.						
	Unit :- Per Cum						
	Taking Out put =28.32 Cum						
	Unskilled mazdoor for cutting and carrying etc.	11	nos	206.00	2266.00		
	Head mason	0.25	nos	279.00	69.75		
					2335.75		
	Add Overhead charge & C.P@15%				350.36		
					2686.11		
	Add cess@1%				26.86		
					2712.97	95.80	
		Say	Rs	95.80	Per M ³		
5.1.28	Earth work in excavation of foundation trenches in soft rock or ordinary rock (vide classification of soil item C)with initial lead of 300 M and lift of 1.5 M including dressing , making the sides in profile and dressing the bed in proper grade etc. all complete as per specifications and direction of E/I. (Soft rock where blasting is required and approved by concerned Chief Engineer)						
	Unit :-Per Cum						
	Taking Out put=10.00 Cum						
	Labour						
	Hammer man	2.75	nos	220.00	605.00		
	Unskilled mazdoor for all work	7.00	nos	206.00	1442.00		
	Mason Gr I	0.33	nos	279.00	92.07		
	Blaster	0.33	nos	347.00	114.51		
	Materials						
	Blasting material including excise, sales tax, carriage from Gomia to work site, storage etc.						
	Special Gelatin	2.00	Kg	928.10	1856.20		
	Detonator	10	nos	6.52	65.19		
	Fuse coil	1	nos	15.61	15.61		
	Tools and Plants						
	Cost of hire charge of compressor, drilling equipment and other accessories				15.00		
					4205.58		
	Add Overhead charge & C.P@15%				630.84		
					4836.42		
	Add cess@1%				48.36		
					4884.78	488.48	
		Say	Rs	488.50	Per M ³		

5.1.29	Earth work in excavation of foundation trenches in proper section in hard rock (vide classification of soil item D) (non- blasting zone) with chisel and hammer with. disposal of excavated rock to a distance up to 30 mtr lifts of 1.5 mtr. in proper stack including leveling, dressing of foundation trenches all complete as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =10 Cum					
	Labour					
	Hammer man	2.25	nos	220.00	495.00	
	Skilled mazdoor for all work	2.25	nos	262.00	589.50	
	Unskilled mazdoor for collecting the excavated materials and carrying the same beyond 50 metre and stacking properly	4	nos	206.00	824.00	
	Unskilled mazdoor for making the edges straight, dressing, profiling and final preparation of surface	3	nos	206.00	618.00	
	Blacksmith	1	nos	249.00	249.00	
	Mate	1	nos	225.00	225.00	
					3000.50	
	Add Overhead charge & C.P@15%				450.08	
					3450.58	
	Add cess@1%				34.51	
					3485.08	348.51
		Say	Rs	348.50	Per M ³	
5.1.30	Earth work in excavation of foundation trenches in hard rock (vide classification of soil item D) in proper section by blasting disposal of excavated rock in proper stack at places beyond working site with initial lead of 30 M and lift of 1.5M, including leveling, dressing of foundation trenches all complete as per specifications and direction of					
	Unit :-Per Cum					
	Taking Out put =10 Cum					
	Labour					
	Hammer man	10.50	nos	220.00	2310.00	
	312	en grade PM	M.T	40640.92	#VALUE!	40640.92
	Mason Gr I	0.33	nos	279.00	92.07	
	Blaster	0.67	nos	347.00	231.33	
	Materials					
	Blasting material including excise, sales tax, carriage from Gomia to work site, storage etc.					
	Special Gelatin	2.00	Kg	928.10	1856.20	
	Detonator	10	nos	6.52	65.19	
	Fuse coil	1	nos	15.61	15.61	
	Tools and Plants					
	Cost of hire charge of compressor, drilling equipment and other accessories				15.00	
					#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	




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				#VALUE!	#VALUE!
				#VALUE!	#VALUE!
	Say	Rs	#VALUE!	Per M ³	#VALUE!
5.1.31	Earth work in filling in foundation trenches and back filling of structures in layers not exceeding 150 mm thick well watered, rammed and fully compacted and finally dressed with suitable earth obtained from excavation of foundation trenches and placed in a suitable profile within a lead of 30 M and lift of 1.5 M, all complete job as per specifications and direction of E/I.				
	Unit :-Per Cum				
	Taking Out put=28.32 Cum				
	Unskilled mazdoor for cutting .	4.5	nos	40640.92	182884.12
	Unskilled mazdoor for carrying .	4	nos	40640.92	162563.66
	Head mason	0.125	nos	279.00	34.88
					345482.65
	Add Overhead charge & C.P@15%				51822.40
					397305.05
	Add cess@1%				3973.05
					401278.10
					14169.42
	Say	Rs	14169.40	Per M ³	
5.1.32	Earth work in filling in foundation trenches and back filling of structures in layers not exceeding 150 mm thick well watered, rammed and fully compacted and finally dressed with semi -pervious or suitable earth obtained after cutting of borrow pits within a lead of 30M and lift of 1.5 M complete job as per specifications and direction of				
	Unit :-Per Cum				
	Taking Out put:-				
	Unskilled mazdoor for cutting .	5.5	nos	40640.92	223525.03
	Unskilled mazdoor for carrying .	4	nos	40640.92	162563.66
	Head mason	0.125	nos	279.00	34.88
					386123.57
	Add Overhead charge & C.P@15%				57918.54
					444042.10
	Add cess@1%				4440.42
					448482.52
					15836.25
	Say	Rs	15836.20	Per M ³	
5.1.33.1	Extra for earth work for ordinary or hard soil (vide classification of soil item-A and B) in each additional lead up to 25 M beyond the initial lead of 30 M as per specifications and direction of E/I.				
	Unit :-Per Cum				
	Taking Out put=28.32 Cum				
	Unskilled mazdoor	1	nos	40640.92	40640.92
	Add Overhead charge & C.P@15%				6096.14
					46737.05
	Add cess@1%				467.37
					47204.42
					1666.82

		Say	Rs	1666.80	Per M ³	
5.1.33.2	Extra for earth work for ordinary or hard soil (vide classification of soil item-C and D) in each additional lead up to 25 M beyond the initial lead of 30 M as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=28.32 Cum					
	Unskilled mazdoor	1.5	nos	40640.92	60961.37	
	Add Overhead charge & C.P@15%				9144.21	
					70105.58	
	Add cess@1%				701.06	
					70806.63	2500.23
		Say	Rs	2500.20	Per M ³	
5.1.34.1	Extra for earth work for ordinary or hard soil (vide classification of soil item-A and B) for each subsequent lift up to 1 M over the initial lift of 1.5 M as per specification and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put = 28.32 Cum					
	Unskilled mazdoor for cutting	1	nos	40640.92	40640.92	
	Add Overhead charge & C.P@15%				6096.14	
					46737.05	
	Add cess@1%				467.37	
					47204.42	1666.82
		Say	Rs	1666.80	Per M ³	
5.1.34.2	Extra for earth work for ordinary soft or hard rock (vide classification of soil item-C and D) for each subsequent lift up to 1 M over the initial lift of 1.5 M as per specification and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=28.32 Cum					
	Unskilled mazdoor for cutting	1.5	nos	40640.92	60961.37	
	Add Overhead charge & C.P@15%				9144.21	
					70105.58	
	Add cess@1%				701.06	
					70806.63	2500.23
		Say	Rs	2500.20	Per M ³	
5.1.35	Deleted					
5.1.36	Trimming and fine dressing the side slope of canal (for preparation of soil for lining of precast P.C.C. slab) to proper section and profile and disposal of soil at a suitable place complete job as per specifications and direction of E/I.					
	Unit :-Per Sqm					
	Taking Out put=100Sqm					
	Mason Gr II	0.25	nos	249.00	62.25	
	Unskilled mazdoor for cutting slope	3	nos	206.00	618.00	
	Unskilled mazdoor for carrying the spoils	2	nos	206.00	412.00	
	Unskilled mazdoor for making the seat of lining to proper profile	1.5	nos	206.00	309.00	

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



	Mate	0.25	nos	225.00	56.25	
					1457.50	
	Add Overhead charge & C.P@15%				218.63	
					1676.13	
	Add cess@1%				16.76	
					1692.89	16.93
		Say	Rs	16.90	Per M ²	
5.1.37	Providing coarse clean local sand in filling in foundation trenches including ramming, watering, royalty and all other taxes complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Unskilled mazdoor for cutting	1	nos	206.00	206.00	
	Local Sand	2.832	Cum	122.70	347.49	
					553.49	
	Add Overhead charge & C.P@15%				83.02	
					636.51	
	Add cess@1%				6.37	
					642.87	227.00
		Say	Rs	227.00	Per M ³	
5.1.38	Watering and consolidation of earth laid in 150 mm to 225 mm layers by manual labour with C.I hammer to achieve minimum 85 % of dry density including cost and carriage of water and necessary tools and plants with all leads and lifts all complete as per specifications and direction of					
	Unit :-Per Cum					
	Taking Out put =28.32 Cum					
	Unskilled mazdoor	3	nos	206.00	618.00	
	Bhisti for carriage of water and sprinkling	3	nos	207.00	621.00	
	Cost of water				15.00	
					1254.00	
	Add Overhead charge & C.P@15%				188.10	
					1442.10	
	Add cess@1%				14.42	
					1456.52	51.43
		Say	Rs	51.40	Per M ³	
5.1.39	Labour for Rolling and compacting the earth in layers of 225 mm thick at O.M.C by sheep foot roller driven by tractor to achieve minimum 95 % of dry density including sprinkling the required quantity of water making arrangement for supply and carriage of water with all leads and lifts, finishing the surfaces plan and drawing including hire charge of compaction, machine and other tools and plants etc. for lined canal all complete as per specifications and direction of E/I. (mode of measurement-sectional measurement of compacted earth)					
	Unit :- Per Cum					

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Taking Out put =28.32 Cum					
	Bhisti for carriage of water and sprinkling	3	nos	207.00	621.00
	Cost of water				15.00
	Hire charge of scop foot roller assuming 1450 cum to be rolled in 8 hr wide item no 3.16	0.16	hr	#VALUE!	#VALUE!
					#VALUE!
	Add Overhead charge & C.P@15%				#VALUE!
					#VALUE!
	Add cess@1%				#VALUE!
					#VALUE!
		Say	Rs	#VALUE!	Per M ³
5.1.40	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) depth not exceeding 1.5 M, complete as per specifications and direction of E/I . (measurement to be taken of the face area timbered).				
	Unit :-Per Sqm				
	Taking Out put =90 Sqm				
	Assuming 30M long 1.5 M deep				
	Area= 2 x 30 x 1.5 = 90 sqm.				
	Poling Boards				
	Local wood planks 90 x 0.038= 3.42 cum	3.42	cum	33253.00	113725.26
	100 mm x100 mm				
	Local wood planks 4 x30x 0.1 x0.1 = 1.2 cum	1.2	Cum	33253.00	39903.60
	Balli struts				
	Sal ballah 120 mm dia 1.5 m long =2 x17x1.5=51 M	51	mtr	30.30	1545.30
					155174.16
	Carriage				
	Cost of carriage of material including loading, unloading and stacking @ 1 % of total of cost materials				1551.74
	Total				156725.90
	Deduct credit for materials 75 % of the cost of material				116380.62
					40345.28
	This can be used four times , therefore cost per use= a/4				10086.32
	Labour				
	Carpenter Gr II	0.50	nos	249.00	124.50
	Unskilled mazdoor	1	nos	206.00	206.00
					330.50
	Total A+B				10416.82
	Add Overhead charge & C.P@15%				1562.52
					11979.34
	Add cess@1%				119.79
					12099.14
		Say	Rs	134.40	134.43
					Per Sqm

Bz E C BB

5.1.41	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) depth not exceeding 1.5 M, but up to 3.0 M complete as per specifications and direction of E/I. (measurement to be taken of the face area timbered).					
	Unit :-Per Sqm					
	Taking Out put=90 Sqm					
	Assuming 30 mtr long 1.5 mtr deep					
	Area= 2 x 30 x 1.5 = 90 sqm.					
	Poling Boards					
	Local wood planks 90 x 0.38= 3.42 cum	3.42	cum	33253.00	113725.26	
	100 mm x100 mm					
	Local wood planks 4 x30x 0.1 x0.1 = 1.2 cum	1.2	Cum	33253.00	39903.60	
	Balli struts					
	Sal ballah 120 mm dia 1.5 m long 2 x17x1.5=51 mtr	51	mtr	30.30	1545.30	
					155174.16	
	Carriage					
	Cost of carriage of material including loading, unloading and stacking @ 1 % of total of cost materials				1551.74	
	Total				156725.90	
	Deduct credit for materials 75 % of the cost of material				116380.62	
					40345.28	a
	This can be used four times, therefore cost per use a/4				10086.32	A
	Labour					
	Carpenter Gr II	0.75	nos	249.00	186.75	
	Unskilled mazdoor	2	nos	206.00	412.00	
					598.75	B
	Total A+B				10685.07	
	Add Overhead charge & C.P@15%				1602.76	
					12287.83	
	Add cess@1%				122.88	
					12410.71	137.90
		Say	Rs	137.90	Per Sqm	
5.1.42.1	Fine dressing of the canals banks or embankment and turfing with 75 mm thick grass sod obtained within a lead of 150 M including the cost of watering the grass surface till it acquires greenness as per specifications and direction of					
	Unit :-Per Sqm					
	Taking Out put =100Sqm					
	Unskilled mazdoor for cutting	1.5	nos	206.00	309.00	
	Unskilled mazdoor for carrying	1.5	nose	206.00	309.00	
	Unskilled mazdoor for dressing, placing turf and ramming	1	nos	206.00	206.00	
	Bhisti for carriage of water and sprinkling	3	nos	207.00	621.00	
	Cost of watering till the growth				15.00	
					1460.00	
	Add Overhead charge & C.P@15%				219.00	

					1679.00	
	Add cess@1%				16.79	
					1695.79	1695.79
		Say	Rs	1695.80	Per % M ²	
5.1.42.2	Extra for each lead of 150 M over initial lead of 150 M including the cost of watering the grass surface till it acquires greenness as per specifications and direction of E/I.					
	Unit :-Per Sqm					
	Taking Out put=100 Sqm					
	Unskilled mazdoor for carrying	1.50	nos	206.00	309.00	
					309.00	
	Add Overhead charge & C.P@15%				46.35	
					355.35	
	Add cess@1%				3.55	
					358.90	358.90
		Say	Rs	358.90	Per % M ²	
5.1.43	Jungle clearance in borrow area, building premises; flanks, slope of existing road and canal etc,embankment by removing the jungle , bushes from top including weeding out shrubs including roots and leveling complete job as per specifications and direction of E/I.					
	Unit :-Per Sqm					
	Taking Out put =92.94 Sqm					
	Unskilled mazdoor for carrying	0.75	nos	206.00	154.50	
					154.50	
	Add Overhead charge & C.P@15%				23.18	
					177.68	
	Add cess@1%				1.78	
					179.45	1.93
		Say	Rs	1.90	Per M ²	

BE S G RB

5.1.47	Earth work by excavator and spreader or tractor-leveler in lower level canal or flood embankment or dhar (Like, Minor, Sub -minor, Jamindari bundh, Pynes etc where tipper is not needed) all types of work like filling and making of canal banks or embankment of earth free from logs, roots or any other gradients, desilting of canal bed and dhar in proper profile with dressing and finishing including new construction, repair or restoration in ordinary soil including cutting, loading, carriage from pit to banks or embankments, unloading, spreading, clod-breaking and laying in layers properly with lead below 15 metre and with all lifts all complete job as per specifications and direction of E/I. (mode of measurement-sectional measurement of					
	Unit:-Per Cum		o			
	(A) Cost of cutting, loading , unloading & placing by excavator 1 M ³ capacity					
	Use rate of Excavator=Rs.1753.29 per hour					
	Output of Excavator =60 Cum per hour					
	Cost					29.22
	(B) Cost of spreading by D-80 Dozer					
	Use rate of D-80 Dozer=Rs. 5011.38 per hour					
	Output of D-80 Dozer =300 Cum per Hour					
	Cost					16.70
	(C) For dressing & finishing one labour for 100 M ³					
	Unskilled labour	0.01	no	206.00	2.06	
						47.99
	Add Overhead charge & C.P.@15%					7.20
						55.18
	Add 1% Cess					0.55
						55.74
		Say	Rs	55.70	Per M ³	55.74

NOTE :- Add Royalty of Earth Rs 22.00 Where needed without overhead charge & C.P

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5.2 CANAL LINING

Sr.No	Item	Rate	Unit
5.2.1	Providing compacted 75 mm thick sand filter of required F.M as per design on slopes and in bed of canal with local sand including cost of water, ramming, leveling and dressing etc. all complete as per specification and direction of E/I	80.50	Per M ³
5.2.2	Providing filter of stone chips 20 mm and down well graded as per design for lined canal, rains including hand packing etc. all complete as per specification and direction of E/I	1071.60	Per M ³
5.2.3	Providing intake wells with P.C.C M 150 with nominal mix of (1:2:4) using stone chips 20 mm and down and sand of F.M. not less than 2 including cost of form work, making space for under drainage pipes, fixing bolts, curing and placing in position all complete as per specification and direction of E/I		
	Patna Urban	1474.30	Each
	Patna	1474.30	Each
	Muzaffarpur	1474.30	Each
	Darbhanga	1474.30	Each
	Bhagalpur	1495.50	Each
	Munger	1495.50	Each
	Saharsa	1474.30	Each
	Purnea	1474.30	Each
	Gaya	1489.00	Each
	Saran	1495.50	Each
5.2.4	Providing single brick tile 300 mm x 150 mm x 50 mm lining in canal bed laid on 10 mm thick cement mortar in (1:5) base coarse and 5 mm vertical joints all round filled with the mortar of the same mix and top finished with 20 mm thick cement plaster in (1:3) washed, screened sand having F.M not less than 2 including all taxes and royalty etc. all complete as per specification and direction of E/I		
	Patna Urban	549.50	Per M ²
	Patna	549.50	Per M ²
	Muzaffarpur	550.30	Per M ²
	Darbhanga	550.30	Per M ²
	Bhagalpur	548.50	Per M ²
	Munger	540.40	Per M ²
	Saharsa	550.30	Per M ²
	Purnea	558.40	Per M ²
	Gaya	536.50	Per M ²
	Saran	540.40	Per M ²
5.2.5	Providing double brick tile 300 mm x 150 mm x 50 mm lining on canal side slopes with top layer of tile and laid on 5 mm thick green cement mortar (1:3) over hardened surface of 15 mm thick cement plaster (1:3) on top of bottom layer of brick tiles, laid on 10 mm thick cement mortar in (1:5) as base coarse over sand filter 5 mm vertical joints all round of top layer of brick tiles filled with cement mortar (1:3) and that of bottom layers with C.M. (1:5) with washed and screened sand F.M. not less than 2 including cost of scaffolding staging, curing etc. all taxes and royalty etc. all complete as per specification and direction of E/I		
	Patna Urban	1069.40	Per M ²
	Patna	1069.40	Per M ²
	Muzaffarpur	1071.30	Per M ²
	Darbhanga	1071.30	Per M ²
	Bhagalpur	1069.00	Per M ²
	Munger	1049.30	Per M ²

		Saharsa	1071.30	Per M ²
		Purnea	1091.10	Per M ²
		Gaya	1044.40	Per M ²
		Saran	1049.30	Per M ²
5.2.6	Supplying and laying jhama khoa filter of 20 to 25 mm size in under drainage of canal lining including royalty, all taxes etc. . all complete as per specification and direction of E/I			
		Patna Urban	2045.50	Per M ³
		Patna	1987.50	Per M ³
		Muzaffarpur	1912.00	Per M ³
		Darbhanga	1966.50	Per M ³
		Bhagalpur	1966.50	Per M ³
		Munger	1966.50	Per M ³
		Saharsa	1966.50	Per M ³
		Purnea	1966.50	Per M ³
		Gaya	1912.00	Per M ³
		Saran	1912.00	Per M ³
5.2.7	Supplying and laying stone metal graded filter of size 90 mm to 45 mm size in slope and bed of canal below lining including royalty, all taxes etc. . all complete as per specification and direction of E/I (where depth of cutting is more than 6M)		936.00	Per M ³
5.2.8	Supplying and laying sand filter free from clay and other organic materials (F.M 2.5 to 3.0') in slope and bed of the canal, below lining including the cost of watering, compaction, including royalty, all taxes etc. . all complete as per specification and direction of E/I (where depth of cutting is more than 6 M)		783.00	Per M ²
5.2.9	Providing junction lining over one layer of brick tiles, laid on 10 mm thick cement mortar (1:5) joints filled with mortar of the same mix by laying cement concrete M150 with nominal mix of (1:2:4) with well graded stone metal 20 mm and down washed and screened sand having F.M not less than 2 including curing, royalty . all taxes and royalty etc. all complete as per specification and direction of E/I			
		Patna Urban	810.90	Per M ²
		Patna	810.90	Per M ²
		Muzaffarpur	811.70	Per M ²
		Darbhanga	811.70	Per M ²
		Bhagalpur	806.10	Per M ²
		Munger	801.90	Per M ²
		Saharsa	811.70	Per M ²
		Purnea	819.80	Per M ²
		Gaya	798.10	Per M ²
		Saran	801.90	Per M ²
5.2.10	Providing 10 mm thick vertical joints at suitable intervals, filled with bituminous materials of approved quality including royalty all taxes and royalty etc. all complete as per specification and direction of E/I			
5.2.10.1	For canal side slope per 30.50 M		99.80	Per M
5.2.10.2	For canal bed for 30.50M		64.30	Per M
5.2.11	Supplying and laying 150 mm dia R.C.C NP2 perforated pipe in under drainage of canal lining as per specification and direction of E/I		256.30	Per M
5.2.12	Supplying and laying 150 mm dia open jointed 1220 mm long P.C.C (1:1:2) pipes in under drainage of canal lining including the cost of curing, royalty all taxes etc. as per specification and direction of E/I		#VALUE!	Per M
5.2.13	Supplying and laying 150 mm dia open jointed 610 mm long earthen ware pipe in under drainage of canal lining including the cost of curing, royalty all taxes etc. as per specification and direction of E/I			

5.2.14	Providing 150 mm dia vertical non return valve complete with holding down bolts, nuts, base plate etc.all complete as per specification and direction of E/I	#VALUE!	Each
5.2.15	Providing 50 mm dia non return pocket valve complete with holding down bolts, nuts, base plate etc.all complete as per specification and direction of E/I	#VALUE!	Each
5.2.16	Providing safety valve in lined section of canal with M.S rod embedded in cement concrete (1:3:6) all complete as per specification and direction of E/I		
	Patna Urban	#VALUE!	Each
	Patna	#VALUE!	Each
	Muzaffarpur	#VALUE!	Each
	Darbhanga	#VALUE!	Each
	Bhagalpur	#VALUE!	Each
	Munger	#VALUE!	Each
	Saharsa	#VALUE!	Each
	Purnea	#VALUE!	Each
	Gaya	#VALUE!	Each
	Saran	#VALUE!	Each
5.2.17	Providing safety ladder in lined section of canal with M.S rod embedded in cement concrete (1:3:6) in accordance with I.S.S 3812-1966 including royalty, all taxes etc. all complete as per specification and direction of E/I		
	Patna Urban	#VALUE!	Each
	Patna	#VALUE!	Each
	Muzaffarpur	#VALUE!	Each
	Darbhanga	#VALUE!	Each
	Bhagalpur	#VALUE!	Each
	Munger	#VALUE!	Each
	Saharsa	#VALUE!	Each
	Purnea	#VALUE!	Each
	Gaya	#VALUE!	Each
	Saran	#VALUE!	Each
5.2.18	Laying of 600 mm x 525 mm mix 55 mm, 600 mm x450 mmx55 mm, 600 mmx425 mmx55 mm size precast P.C.C. slab in side slopes and berm of canal with groove of the slab and lug slab set in C.M. (1 : 3) and flush pointing (1 : 2) including royalty, all taxes etc. but excluding the cost of precast slabs all complete as per specification and direction of E/I		
	Patna Urban	278.50	Per M ²
	Patna	278.50	Per M ²
	Muzaffarpur	278.50	Per M ²
	Darbhanga	278.50	Per M ²
	Bhagalpur	278.30	Per M ²
	Munger	278.30	Per M ²
	Saharsa	278.50	Per M ²
	Purnea	278.50	Per M ²
	Gaya	278.00	Per M ²
	Saran	278.30	Per M ²
5.2.19	Providing 100 mm thick P.C.C lining in M-100 with nominal mix of (1:3:6) with well graded stone chips (20 mm & down and coarse sand of approved quality and of requisite F.M. in side and bottom curved portion of the canal in panels with construction joints including cost of form work and its removal, curing, royalty and all other taxes complete job as per specification and direction of E/I		
	Patna Urban	6709.30	Per M ³
	Patna	6709.30	Per M ³
	Muzaffarpur	6709.30	Per M ³
	Darbhanga	6709.30	Per M ³
	Bhagalpur	6682.60	Per M ³

	Munger	6682.60	Per M ³
	Saharsa	6709.30	Per M ³
	Purnea	6709.30	Per M ³
	Gaya	6623.70	Per M ³
	Saran	6682.60	Per M ³
5.2.20	Providing 30 mm internal dia burnt clay pipe for providing holes in concrete section of slab, cross and longitudinal sleepers including sand packing in holes in lining work of canals all complete job as per specification and direction of E/I		Per M ²
5.2.21	Providing 100/75mm thick P.C.C lining in M-150 with nominal mix of (1:2:4) with well graded stone chips (20mm & down) and coarse sand of approved quality and requirement 5M in side and bottom common portion of the canal in panels with construction joints including cost of form work and its removal,curing,all taxes etc, all complete job as per specification & direction of E/I.	7332.30	Per M ²
5.2.22	Providing and laying P.C.C M-150 with nominal mix of (1:2:4) with well graded stone chips (20mm & down) and coarse sand of approved quality and requisite F.M in lug slab,cross and longitudinal sleeper for lining canal including cost of form work and its removal,curing, royalty and all taxes etc all complete job as per specification & direction of E/I.	7332.30	Per M ²
5.2.23	Providing and laying LDPE film of 250 micron or kg/sqm in the bed of canal and side slope as per specification and direction of E/I	52.70	Per M ²

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



5.2 CANAL LINING

Sl.No.	Description	Quantity	Unit	Rate	Amount	Ref.
5.2.1	Providing compacted 75 mm thick sand filter of required F.M as per design on slopes and in bed of canal with local sand including cost of water, ramming, leveling and dressing etc. all complete as per specification and direction of E/I					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	(Assuming 9.3 sqm area with 75 mm thickness sand layer)					
	Cost of local sand as per design and specification	0.70	cum	122.70	85.89	
	Skilled labour	0.167	nos	262.00	43.75	
	Unskilled mazdoor	1.5	nos	206.00	309.00	
	Unskilled mazdoor watering and ramming	1	nos	206.00	206.00	
					644.64	
	Add Overhead charge & C.P @15%				96.70	
					741.34	
	Add 1% Cess				7.41	
					748.75	80.51
	Say		Rs	80.50	Per M ²	
5.2.2	Providing filter of stone chips 20 mm and down well graded as per design for lined canal, rains including hand packing etc . all complete as per specification and direction of E/I					
	Unit :-Per Sqm					
	Taking Out put =2.832 Cum					
	Stone chips (M-040+M-045)/2	2.832	cum	628.45	1779.77	
	Skilled mazdoor for screening and grading filter	2	nos	262.00	524.00	
	Unskilled mazdoor for laying and hand packing	1.5	nos	206.00	309.00	
					2612.77	
	Add Overhead charge & C.P@15%				391.92	
					3004.69	
	Add 1% Cess				30.05	
					3034.73	1071.59
	Say		Rs	1071.60	Per M ³	
5.2.3	Providing intake wells with P.C.C M 150 with nominal mix of (1:2:4) using stone chips 20 mm and down and sand of F.M. not less than 2.00 including cost of form work, making space for under drainage pipes, fixing bolts, curing and placing in position all complete as per specification and direction of E/I					
	Unit :-Each					
	Volume of one intake well					
	$\frac{\pi}{4} \times (0.650)^2 \times 0.075 = 0.025$					
	$\frac{\pi}{4} \{ (0.65)^2 - (0.5)^2 \} \times 0.42 = 0.052$					
	Total = 0.077 cum					
	P.C.C (1:2:4) vide item 5.3.4(without C.P.etc)	0.077	cum	3854.71	296.81	
	Detail of side shuttering= 22/7x0.65x0.495+22/7x0.50x0.42=1.67 sqm					
	Shuttering vide item 5.3.18(without C.P etc)	1.67	sqm	488.46	815.73	





	Bolts 20 mm dia 25 cm long	4	nos	39.20	156.80	
					1269.34	
	Add Overhead charge & C.P.@15%				190.40	
					1459.74	
	Add 1% Cess				14.60	
					1474.34	1474.34
	Say		Rs	1474.30	Each	
5.2.4	Providing single brick tile 300 mm x 150 mm x 50 mm lining in canal bed laid on 10 mm thick cement mortar in (1 : 5) base coarse and 5 mm vertical joints all round filled with the mortar of the same mix and top finished with 20 mm thick cement plaster in (1 : 3) washed screened sand having F.M not less than 2 including all taxes and royalty etc. all complete as per specification and direction of E/I					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
i.	Brick tiles 1 st class including 5 % wastage	198	nos	7084.00	1402.63	
ii.	Volume of (1:5) mortar					
	(a). Base course 10 mm thick $10/1000 \times 9.3 = 0.0930$					
	(b) Vertical longitudinal joints 5 mm thick $21 \times 5/1000 \times 50/1000 \times 3.05 = 0.016$					
	(c). Vertical transverse joints 5 mm thick $11 \times 5/1000 \times 50/1000 \times 3.05 = 0.008$					
	Total= 0.117					
	Add 20% extra for undulation of sub grade and wastage of mortar etc.= 0.023					
	Total 0.140 cum					
	Cement	0.028	cum	8912.00	249.54	
	Sand	0.140	cum	145.10	20.31	
	Mason Gr I	1.5	nos	279.00	418.50	
	Unskilled mazdoor	3	nos	206.00	618.00	
iii.	Volume of (1:3) mortar					
	$20/1000 \times 3.05 \times 3.05 = 0.186$					
	Add 5% wastage =0.009					
	Total= 0.195 say 0.2 cum					
	Cement	0.07	cum	8912.00	623.84	
	Sand	0.21	cum	145.10	30.47	
	Mason Gr I	1.5	nos	279.00	418.50	
	Unskilled mazdoor	3	nos	206.00	618.00	
					4399.79	
	Add Overhead charge & C.P @15%				659.97	
					5059.76	
	Add 1% Cess				50.60	
					5110.36	549.50
	Say Rs			549.50	Per M ²	

Be S O 7/15

5.2.5	Providing double brick tile 300 mm x 150 mm x 50 mm lining on canal side slopes with top layer of tile and laid on 5 mm thick green cement mortar (1:3) over hardened surface of 15 mm thick cement plaster (1 : 3) on top of the bottom layer of brick tiles, laid on 10 mm thick cement mortar in (1 : 5) as base coarse over sand filter 5 mm vertical joints all round of top layer of brick tiles filled with cement mortar (1: 3) and that of the bottom layers with C.M. (1 : 5) with washed and screened sand F.M. not less than 2 including cost of scaffolding staging, curing etc. all taxes and royalty etc. all complete as per specification and direction of E/I					
	Unit :-Per Sqm					
	Taking Out put= 9.3 Sqm					
	(Assuming 9.3 sqm3.05x3.05 mtr)					
	A. Bottom layer of tile lining					
ii.	Brick tiles	198	nos	7084.00	1402.63	
	Volume of (1:5) mortar with 20 % extra for foundation of sub grade and wastage of cement mortar vide item no 5.2.4=0.14 cum					
ii.	Cement	0.028	cum	8912.00	249.54	
	Sand	0.140	cum	145.10	20.31	
	Mason Gr I	0.5	nos	279.00	139.50	
	Unskilled mazdoor	3	nos	206.00	618.00	
	Total				2429.98	
iii.	Add 25 % For working in slope				607.50	
					3037.48	(A)
	B. Top layer of lining volume of (1:3) mortar with 10 % wastage 1 st class brick tiles					
	a. 15 mm thick cement plaster = $15/1000 \times 9.3 = 0.14$					
	5 mm thick C.P= $5/1000 \times 9.3 = 0.047$					
	Total=0.211					
	Add 10 % wastage=0.021					
	Total=0.232 cum					
	Brick tiles	198	nos	7084.00	1402.63	
	Cement	0.077	cum	8912.00	686.22	
	Sand	0.232	cum	145.10	33.66	
	Mason Gr I	1.5	nos	279.00	418.50	
	Unskilled mazdoor	3	nos	206.00	618.00	
	Total				3159.02	
	Add 25 % on labour for working in slope				259.13	
					3418.14	(B)
	C. Labour for laying tiles including mortar jointing					
	Mason Gr I	2	nos	279.00	558.00	
	Unskilled mazdoor	4	nos	206.00	824.00	
	Total				1382.00	
	Add 25 % on labour for working in slope				345.50	
	Total				1727.50	(C)
	D. Cost of scaffolding					
	Add 10 % of cost of cement, sand and bricks tiles				379.50	(D)
	Total				8562.63	










	Add Overhead charge & C.P@15%				1284.39	
					9847.02	
	Add 1% Cess				98.47	
					9945.49	1069.41
		Say Rs		1069.40	Per M ²	
5.2.6	Supplying and laying jhama metal filter of 20 to 25 mm size in under drainage of canal lining including royalty, all taxes etc. all complete as per specification and direction of E/I					
	Unit :-Per Cum					
	Taking Out put= 2.832 Cum					
	Jhama khoa	2.832	cum	1652.00	4678.46	
	Unskilled mazdoor	1.5	nos	206.00	309.00	
					4987.46	
	Add Overhead charge & C.P@15%				748.12	
					5735.58	
	Add 1% Cess				57.36	
					5792.94	2045.53
	Say		Rs	2045.50	Per M ³	
5.2.7	Supplying and laying stone metal graded filter of size 90 mm to 45 mm size in slope and bed of canal below lining including royalty, all taxes etc. . all complete as per specification and direction of E/I (where depth of cutting is more than 6 M)					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Stone metal	2.832	cum	422.30	1195.95	
	Mate	0.25	nos	225.00	56.25	
	Unskilled mazdoor for carrying metal	3.5	nos	206.00	721.00	
	Unskilled mazdoor for spreading	1.5	nos	206.00	309.00	
					2282.20	
	Add Overhead charge & C.P@15%				342.33	
					2624.53	
	Add 1% Cess				26.25	
					2650.78	936.01
	Say		Rs	936.00	Per M ³	
5.2.8	Supplying and laying sand filter free from clay and other organic materials (F.M 2.5 to 3.0) in slope and bed of the canal, below lining including the cost of watering, compaction, including royalty, all taxes etc. . all complete as per specification and direction of E/I (where depth of cutting is more than 6M)					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Sand	2.832	cum	145.10	410.92	
	Mate	0.25	nos	225.00	56.25	
	Unskilled mazdoor for carrying and placing	3.5	nos	206.00	721.00	
	Unskilled mazdoor for spreading	1.5	nos	206.00	309.00	
	Unskilled mazdoor for loading and ramming	2	nos	206.00	412.00	
					1909.17	
	Add Overhead charge & C.P@15%				286.38	
					2195.55	
	Add 1% Cess				21.96	

					2217.50	783.02
	Say		Rs	783.00	Per M ²	
5.2.9	Providing junction lining over one layer of brick tiles, laid on 10 mm thick cement mortar (1:5) joints filled with mortar of the same mix by laying cement concrete M150 with nominal mix of (1:2:4) with well graded stone metal 20 mm and down washed and screened sand having F.M not less than 2 including curing, royalty . all taxes and royalty etc. all complete as per specification and					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	A. Bottom layer of tile lining					
	Brick tiles	198	nos	7084.00	1402.63	
	B. Volume of (1:5) mortar with 20 % extra for foundation of sub grade and wastage of cement mortar vide item no 5.2.4=0.14 cum					
	i.Cement	0.028	cum	8765.00	245.42	
	ii.Sand	0.140	cum	145.10	20.31	
	iii. Labour for laying tiles including mortar jointing					
	Mason Gr I	1.5	nos	279.00	418.50	
	Unskilled mazdoor	3	nos	206.00	618.00	
	iv.Labour charge for 10 mm thick base course					
	Mason Gr I	1.5	nos	279.00	418.50	
	Unskilled mazdoor	3	nos	206.00	618.00	
	C. Quantity of (1:2:4) concrete in 9.3 sqm of junction lining= (20 mm +70 mm)x 0.30/(2x1000)=0.42 cum					
	Stone chips (M-040+M-045)/2	0.38	cum	628.45	238.81	
	Cement	0.095	cum	8912.00	846.64	
	Sand	0.190	cum	145.10	27.57	
	Mason Gr I	0.25	nos	279.00	69.75	
	Mason Gr II	1.75	nos	249.00	435.75	
	Unskilled mazdoor	5.5	nos	206.00	1133.00	
	Total				6492.89	
	Add Overhead charge & C.P@15%				973.93	
					7466.82	
	Add 1% Cess				74.67	
					7541.49	810.91
	Say Rs			810.90	Per M ²	
5.2.10	Providing 10 mm thick vertical joints at suitable intervals, filled with bituminous materials of approved quality including royalty all taxes and royalty etc. all complete as per specification and direction of E/I					
	Unit :- Per Metre					
	Taking Out put =30.50M					
5.2.10.1	For canal side slope per 30.50M					
	Volume of bitumen 30.5 x0.010x0.130=0.04 cum@1440 kg per cum=0.04x1440=57.6 kg					
	Bitumen	57.6	kg	34.46	1985.07	
	Semi Skilled labour	2	nos	215.00	430.00	
	Unskilled mazdoor	1	nos	206.00	206.00	
					2621.07	
	Add Overhead charge & C.P@15%				393.16	




				3014.23	
	Add 1% Cess			30.14	
				3044.37	99.82
	Say		Rs	99.80	Per M
5.2.10.2	For canal bed for 30.50M				
	Volume of bitumen= 30.5 x10x80/(1000x1000)=0.0244 cum@1440 kg per cum=0.0244x1440=36.13 kg				
	Bitumen	35.13	kg	34.46	1210.69
	Semi Skilled labour	1.5	nos	215.00	322.50
	Unskilled mazdoor	0.75	nos	206.00	154.50
				1687.69	
	Add Overhead charge & C.P@15%			253.15	
				1940.84	
	Add 1% Cess			19.41	
				1960.25	64.27
	Say		Rs	64.30	Per M
5.2.11	Supplying and laying 150 mm dia R.C.C NP ₂ perforated pipe in under drainage of canal lining as per specification and direction of E/I				
	Unit :-Per Metre				
	Taking Out put=1 M				
	Cost of pipe	1	mtr	218.52	218.52
	Cost of laying @ 10% of above			2.19	
				220.71	
	Add Overhead charge & C.P@15%			33.11	
				253.81	
	Add 1% Cess			2.54	
				256.35	256.35
	Say		Rs	256.30	Per M
5.2.12	Supplying and laying 150 mm dia open jointed 1220 mm long P.C.C (1:1:2) pipes in under drainage of canal lining including the cost of curing, royalty all taxes etc. as per specification and direction of E/I				
	Unit :-Per Metre				
	Taking Out put=1.22 M				
	Taking pipe length as 1.22 mtr				
	Cost of 150 mm dia P.C.C.pipe	1.22	mtr	INPUT	#VALUE!
	Cost of laying @ 10% of above				#VALUE!
					#VALUE!
	Add Overhead charge & C.P @15%				#VALUE!
					#VALUE!
	Add 1% Cess				#VALUE!
					#VALUE!
	Say		Rs	#VALUE!	Per M
5.2.13	Supplying and laying 150 mm dia open jointed 610 mm long earthen ware pipe in under drainage of canal lining including the cost of curing, royalty all taxes etc. as per specification and direction of E/I				
	Unit :-Per Metre				
	Taking Out put =0.61M				

	Cost of 150 mm dia P.C.C.pipe	0.61	mtr	INPUT	#VALUE!	
	Cost of laying @ 10% of above				#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
	Say		Rs	#VALUE!	Per M	#VALUE!
5.2.14	Providing 150 mm dia vertical non return valve complete with holding down bolts, nuts, base plate etc.all complete as per specification and direction of E/I					
	Unit :-Each					
	Cost of pressure release valves	1	nos	#VALUE!	#VALUE!	
	Cost of laying @ 10% of above				#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
	Say		Rs	#VALUE!	Each	#VALUE!
5.2.15	Providing 50 mm dia non return pocket valve complete with holding down bolts, nuts, base plate etc.all complete as per specification and direction of E/I					
	Unit :-Each					
	Cost of pocket valves	1	nos	#VALUE!	#VALUE!	
	Cost of laying @ 10% of above				#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
	Say		Rs	#VALUE!	Each	#VALUE!
5.2.16	Providing safety valve in lined section of canal with M.S rod embedded in cement concrete (1:3:6) all complete as per specification and direction of E/I (Vide I.S.I 3872-					
	Unit :-Each					
	Volume of concrete	0.74	cum			
	M.S. rods 10 mm dia	25	kg			
	25 mm dia 10.5 m @ 3.87 kg / mtr=40.63 kg	40.63	kg			
	Cost of concrete (1:3:6) mix vide item no 5.3.3 (Modify the rates for the quality of aggregate)	0.74	cum	3107.28	2299.39	
	Providing M.S bars Vide item no 5.3.22					
	10 mm dia	25	kg	46.42	1160.58	
	25 mm dia	40.63	kg	46.42	1886.18	
	Cost of safety valve	1	nos	#VALUE!	#VALUE!	
	Add Overhead charge & C.P (Safety valve only)@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!





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			Rs	#VALUE!	Each	
5.2.17	Providing safety ladder in lined section of canal with M.S rod embedded in cement concrete (1:3:6) in accordance with I.S.S 3812-1966 including royalty, all taxes etc. all complete as per specification and direction of E/I. (Vide I.S.I 3872-1966)					
	Unit :-Each					
	Volume of concrete	0.74	cum			
	M.S. rods 10 mm dia	25	kg			
	25 mm dia 10.5 m @ 3.87 kg / mtr=40.63 kg	40.63	kg			
	Cost of concrete (1:3:6) mix vide item no 5.3.3 (Modify the rates for the quality of aggregate)	0.74	cum	3609.10	2670.73	
	Providing M.S bars Vide item no 5.3.22					
	10 mm dia	25	kg	46.42	1160.58	
	25 mm dia	40.63	kg	46.42	1886.18	
	Cost of safety ladder	1	nos	INPUT	#VALUE!	
					#VALUE!	
	Add Overhead charge & C.P (Safety ladder only)@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
			Rs	#VALUE!	Each	
5.2.18	Laying of 600 mm x 525 mmx 55 mm; 600 mm x450 mmx55 mm; 600 mmx425 mmx55 mm size precast P.C.C. slab in side slopes and berm of canal with groove of the slab and lug slab set in C.M. (1: 3) and flush pointing (1 : 2) including royalty, all taxes etc. but excluding the cost of precast slabs all complete as per specification and direction of E/I					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Laying of precast slab					
	Mason Gr II	0.5	nos	249.00	124.50	
	Unskilled mazdoor	1	nos	206.00	206.00	
	Jointing pre cast slab					
	Cement	0.006	cum	8912.00	53.47	
	Sand	0.018	cum	145.10	2.61	
	Mason Gr II	3	nos	249.00	747.00	
	Unskilled mazdoor	3	nos	206.00	618.00	
	Bhisti	1.5	nos	207.00	310.50	
	Flush pointing of joints					
	Cement	0.003	cum	8912.00	26.74	
	Sand	0.010	cum	145.10	1.45	
	Mason Gr II	0.25	nos	249.00	62.25	
	Unskilled mazdoor	0.25	nos	206.00	51.50	
	Bhisti	0.125	nos	207.00	25.88	
					2229.90	
	Add Overhead charge & C.P@15%				334.48	
					2564.38	
	Add 1% Cess				25.64	
					2590.02	278.50





BL




			Rs	278.50	Per M ²	
5.2.19	Providing 100 mm thick P.C.C lining in M-100 with nominal mix of (1:3:6) with well graded stone chips (20 mm & down) and coarse sand of approved quality and of requisite F.M. in side and bottom curved portion of the canal in panels with construction joints including cost of form work and its removal, curing, royalty and all other taxes complete job as per specification and direction of E/I					
	Unit :- Per Cum					
	Taking Out put =2.832 Cum					
A.	Materials					
	Stone chips	2.66	M ³	690.30	1836.20	
	Sand	1.33	M ³	145.10	192.98	
	Cement	0.443	M ³	8912.00	3948.02	
B.	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) To be calculated taking 2 cum of concrete per hr) for 1.42 hr	1.42	hr	66.00	93.72	
	(ii) Vibrator	1.42	hr	93.65	132.98	
C.	Shuttering					
	I. Form work for curved portion for 2.832 cum of concrete assuming 14 sqm Vide item no 5.3.18(without C.P.etc.)	14	sqm	488.46	6838.43	
D.	Labour					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
	Total				16358.83	
	Add Overhead charge & C.P@15%				2453.82	
					18812.65	
	Add 1% Cess				188.13	
					19000.78	6709.31
		Say Rs		6709.30	Per M ³	
5.2.20	Providing 30 mm internal dia burnt clay pipe for providing holes in concrete section of slab, cross and longitudinal sleepers including sand packing in holes in lining work of canals all complete job as per specification and direction of E/I					
	Unit :-Each					
	Assuming 100 mm long hole=139 Nos.					
	and 225 mm long holes=222 Nos.					
	Materials					
	i. Cost of burnt clay pipe of internal dia 31.75 mm . 1-1/4'External dia 38.00 mm1-1/2'					
	(a). 100 mm long	139	nos	#VALUE!	#VALUE!	
	(b) 225 mm long	222	nos	#VALUE!	#VALUE!	
	ii. Sand	0.07	cum	145.10	10.16	
	Labour					
	Head mason	1	nos	279.00	279.00	
	Mason Gr II	0.5	nos	249.00	124.50	
	Unskilled mazdoor	1	nos	206.00	206.00	
	Unskilled mazdoor for sand packing	1	nos	206.00	206.00	
					#VALUE!	

	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
	Say		Rs	#VALUE!	Per M ²	
5.2.21	Providing 100/75mm thick P.C.C lining in M-150 with nominal mix of (1:2:4) with well graded stone chips (20mm & down) and coarse sand of approved quality and requirement 5M in side and bottom common portion of the canal in panels with construction joints including cost of form work and its removal, curing, all taxes etc, all complete job as per specification & direction of E/I.					
	Unit- Per Cum					
	Taking output 2.832 cum					
A	Material					
	Stone chips (20mm & down)	2.548	M ³	690.30	1758.88	
	Sand	1.274	M ³	145.10	184.86	
	cement	0.637	M ³	8912.00	5676.94	
B	Hire charge of Machine					
	Concrete Mixer(taking 2cum per hr)	1.42	hr	66.00	93.72	
	Vibrator	1.42	hr	93.65	132.98	
C.	Shuttering					
	Form work for curved portion for 2.832 cum of concrete assuming 14sqm vide item no -5.3.19	14	sqm	488.46	6838.43	
D.	Labour					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr-II	1.5	nos	249.00	373.50	
	Unskilled Mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
	Total				17877.82	
	Add Overhead charge & C.P@15%				2681.672	
					20559.49	
	Add 1% Cess				205.5949	
					20765.08	
	Rate per sqm				7332.30	
5.2.22	Providing and laying P.C.C M-150 with nominal mix of (1:2:4) with well graded stone chips (20mm & down) and coarse sand of approved quality and requisite F.M in lug slab, cross and longitudinal sleeper for lining canal including cost of form work and its removal, curing, royalty and all taxes etc all complete job as per specification & direction of E/I.					
	Unit- per cum					
	Out put = 2.832 cum					
	Material					
	Stone chips(20mm & down)	2.548	M ³	690.30	1758.88	
	sand	1.274	M ³	145.10	184.86	
	Cement	0.637	M ³	8912.00	5676.94	
	Hire charge of Machine					
	Concrete Mixer(taking 2cum per hr)	1.42	hr	66.00	93.72	
	Vibrator	1.42	hr	93.65	132.98	
	Shuttering					

	Form work for curved portion for 2.832 cum of concrete assuming 14sqm vide item no -5.3.19	14	sqm	488.46	6838.43	
	Labour					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr-II	1.5	nos	249.00	373.50	
	Unskilled Mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
					17877.82	
	Add Overhead charge & C.P@15%				2681.67	
					20559.49	
	Add 1% Cess				205.59	
					20765.08	
	Rate per Sqm				7332.30	
5.2.23	Providing and laying LDPE film of 250 micron or kg/sqm in the bed of canal and side slope as per specification and direction of E/I					
	Unit- per Sqm					
	Taking output =10 Sqm					
	Materials					
	250 micron LDPE film @ 230 gm/sqm(including 5%v for overlap and wastage)	2.415	kg	141.42	341.53	
	Adhesive and cello Tape	L.S			20.00	
	Labour					
	Mate	0.02	nos	225.00	4.50	
	Unskilled labour	0.30	nos	206.00	61.80	
	skilled labour	0.1	nos	262.00	26.20	
					454.03	
	Add Overhead charge & C.P@15%				68.10	
					522.13	
	Add 1% Cess				5.22	
					527.36	
	Rate per Sqm				52.74	
				say,Rs	52.70	

	Form work for curved portion for 2.832 cum of concrete assuming 14sqm vide item no -5.3.19	14	sqm	488.46	6838.43	
	Labour					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr-II	1.5	nos	249.00	373.50	
	Unskilled Mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
					17877.82	
	Add Overhead charge & C.P@15%				2681.67	
					20559.49	
	Add 1% Cess				205.59	
					20765.08	
	Rate per Sqm				7332.30	
5.2.23	Providing and laying LDPE film of 250 micron or kg/sqm in the bed of canal and side slope as per specification and direction of E/I					
	Unit- per Sqm					
	Taking output =10 Sqm					
	Materials					
	250 micron LDPE film @ 230 gm/sqm(including 5%v for overlap and wastage)	2.415	kg	141.42	341.53	
	Adhesive and cello Tape	L.S			20.00	
	Labour					
	Mate	0.02	nos	225.00	4.50	
	Unskilled labour	0.30	nos	206.00	61.80	
	skilled labour	0.1	nos	262.00	26.20	
					454.03	
	Add Overhead charge & C.P@15%				68.10	
					522.13	
	Add 1% Cess				5.22	
					527.36	
	Rate per Sqm				52.74	
				say,Rs	52.70	

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5.3. CONCRETE WORK

Sr.No.	Item	Rate	Unit
5.3.1	Providing and laying P.C.C. M-100 with nominal mix of (1:3:6) with approved quality of graded stone chips (20 mm and down)and coarse granular sand of requisite F.M in lug slab, cross and longitudinal sleepers for lining of canals including cost of form work and its removal, curing, royalty and all other taxes etc all complete job as per specifications and direction of E/I.		
	Patna Urban	8181.20	Per M ³
	Patna	8181.20	Per M ³
	Muzaffarpur	8181.20	Per M ³
	Darbhanga	8181.20	Per M ³
	Bhagalpur	8154.50	Per M ³
	Munger	8154.50	Per M ³
	Saharsa	8181.20	Per M ³
	Purnea	8181.20	Per M ³
	Gaya	8095.60	Per M ³
	Saran	8154.50	Per M ³
5.3.2	Providing and laying P.C.C.M-75 with nominal mix of (1:4:8) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates Gr III Taken)		
	Patna Urban	3221.80	Per M ³
	Patna	3221.80	Per M ³
	Muzaffarpur	3221.80	Per M ³
	Darbhanga	3221.80	Per M ³
	Bhagalpur	3201.30	Per M ³
	Munger	3201.30	Per M ³
	Saharsa	3221.80	Per M ³
	Purnea	3221.80	Per M ³
	Gaya	3156.10	Per M ³
	Saran	3201.30	Per M ³
5.3.3	Providing and laying P.C.C. M-100 with nominal mix of (1:3:6) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates Gr IV Taken)		
	Patna Urban	3609.10	Per M ³
	Patna	3609.10	Per M ³
	Muzaffarpur	3609.10	Per M ³
	Darbhanga	3609.10	Per M ³
	Bhagalpur	3582.40	Per M ³
	Munger	3582.40	Per M ³

		Saharsa	3609.10	Per M ³
		Purnea	3609.10	Per M ³
		Gaya	3523.50	Per M ³
		Saran	3572.40	Per M ³
5.3.4	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2:4) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	4477.20	Per M ³
		Patna	4477.20	Per M ³
		Muzaffarpur	4477.20	Per M ³
		Darbhanga	4477.20	Per M ³
		Bhagalpur	4438.80	Per M ³
		Munger	4438.80	Per M ³
		Saharsa	4477.20	Per M ³
		Purnea	4477.20	Per M ³
		Gaya	4354.20	Per M ³
		Saran	4438.80	Per M ³
5.3.5	Providing and laying P.C.C.or R.C.C M-200 with nominal mix of (1:1.5:3) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	5081.80	Per M ³
		Patna	5081.80	Per M ³
		Muzaffarpur	5081.80	Per M ³
		Darbhanga	5081.80	Per M ³
		Bhagalpur	5032.90	Per M ³
		Munger	5032.90	Per M ³
		Saharsa	5081.80	Per M ³
		Purnea	5081.80	Per M ³
		Gaya	4925.00	Per M ³
		Saran	5032.90	Per M ³
5.3.6	Providing and laying P.C.C. or R.C.C M-250 with nominal mix of (1:1.:2) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	6488.80	Per M ³
		Patna	6488.80	Per M ³
		Muzaffarpur	6488.80	Per M ³
		Darbhanga	6488.80	Per M ³

		Bhagalpur	6416.40	Per M ³
		Munger	6416.40	Per M ³
		Saharsa	6488.80	Per M ³
		Purnea	6488.80	Per M ³
		Gaya	6257.00	Per M ³
		Saran	6416.40	Per M ³
5.3.7	Providing and laying P.C.C. M-75 with nominal mix of (1:4:8) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates Gr III Taken)			
		Patna Urban	3247.30	Per M ³
		Patna	3247.30	Per M ³
		Muzaffarpur	3247.30	Per M ³
		Darbhanga	3247.30	Per M ³
		Bhagalpur	3226.80	Per M ³
		Munger	3226.80	Per M ³
		Saharsa	3247.30	Per M ³
		Purnea	3247.30	Per M ³
		Gaya	3181.60	Per M ³
		Saran	3226.80	Per M ³
5.3.8	Providing and laying P.C.C. M-100 with nominal mix of (1:3:6) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates Gr IV Taken)			
		Patna Urban	3634.60	Per M ³
		Patna	3634.60	Per M ³
		Muzaffarpur	3634.60	Per M ³
		Darbhanga	3634.60	Per M ³
		Bhagalpur	3607.90	Per M ³
		Munger	3607.90	Per M ³
		Saharsa	3634.60	Per M ³
		Purnea	3634.60	Per M ³
		Gaya	3549.10	Per M ³
		Saran	3607.90	Per M ³
5.3.9	Providing and laying P.C.C or R.C.C M-150 with nominal mix of (1:2:4) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	4502.80	Per M ³
		Patna	4502.80	Per M ³

		Muzaffarpur	4502.80	Per M ³
		Darbhanga	4502.80	Per M ³
		Bhagalpur	4464.40	Per M ³
		Munger	4464.40	Per M ³
		Saharsa	4502.80	Per M ³
		Purnea	4502.80	Per M ³
		Gaya	4379.70	Per M ³
		Saran	4464.40	Per M ³
5.3.10	Providing and laying P.C.C. or R.C.C M-200 with nominal mix of (1:1.5:3) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	5107.40	Per M ³
		Patna	5107.40	Per M ³
		Muzaffarpur	5107.40	Per M ³
		Darbhanga	5107.40	Per M ³
		Bhagalpur	5058.40	Per M ³
		Munger	5058.40	Per M ³
		Saharsa	5107.40	Per M ³
		Purnea	5107.40	Per M ³
		Gaya	4950.50	Per M ³
		Saran	5058.40	Per M ³
5.3.11	Providing and laying P.C.C. or R.C.C M-250 with nominal mix of (1:1:2) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	6467.50	Per M ³
		Patna	6467.50	Per M ³
		Muzaffarpur	6467.50	Per M ³
		Darbhanga	6467.50	Per M ³
		Bhagalpur	6395.80	Per M ³
		Munger	6395.80	Per M ³
		Saharsa	6467.50	Per M ³
		Purnea	6467.50	Per M ³
		Gaya	6237.80	Per M ³
		Saran	6395.80	Per M ³
5.3.12	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2:4) in deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates 20 mm To 10 mm Taken)			

		Patna Urban	4503.10	Per M ³
		Patna	4503.10	Per M ³
		Muzaffarpur	4503.10	Per M ³
		Darbhanga	4503.10	Per M ³
		Bhagalpur	4464.70	Per M ³
		Munger	4464.70	Per M ³
		Saharsa	4503.10	Per M ³
		Purnea	4503.10	Per M ³
		Gaya	4380.00	Per M ³
		Saran	4464.70	Per M ³
5.3.13	Providing and laying P.C.C. or R.C.C M-200 with nominal mix of (1:1.5:3) in deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates 20 mm To 10 mm Taken)			
		Patna Urban	5107.40	Per M ³
		Patna	5107.40	Per M ³
		Muzaffarpur	5107.40	Per M ³
		Darbhanga	5107.40	Per M ³
		Bhagalpur	5058.40	Per M ³
		Munger	5058.40	Per M ³
		Saharsa	5107.40	Per M ³
		Purnea	5107.40	Per M ³
		Gaya	4950.50	Per M ³
		Saran	5058.40	Per M ³
5.3.14	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2:4) in wearing coat over deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates 10 mm To 5 mm Taken)			
		Patna Urban	4399.00	Per M ³
		Patna	4399.00	Per M ³
		Muzaffarpur	4399.00	Per M ³
		Darbhanga	4399.00	Per M ³
		Bhagalpur	4360.60	Per M ³
		Munger	4360.60	Per M ³
		Saharsa	4399.00	Per M ³
		Purnea	4399.00	Per M ³
		Gaya	4276.00	Per M ³
		Saran	4360.60	Per M ³
5.3.15	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:1.5:3) in wearing coat over deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design)(Rate of Coarse aggregates 10 mm To 5 mm Taken)			

		Patna Urban	5009.00	Per M ³
		Patna	5009.00	Per M ³
		Muzaffarpur	5009.00	Per M ³
		Darbhanga	5009.00	Per M ³
		Bhagalpur	4960.10	Per M ³
		Munger	4960.10	Per M ³
		Saharsa	5009.00	Per M ³
		Purnea	5009.00	Per M ³
		Gaya	4852.20	Per M ³
		Saran	4960.10	Per M ³
5.3.16	Providing and laying dry pitching with precast cement concrete block of size 600 mm x 600 mm x 300 mm in M-75 with nominal mix of (1:4:8) in floor and flank wall with approved quality of graded coarse aggregate of required grade (as per design) and approved quality of sand of requisite F.M washed and screened including necessary form work, tools and plants, vibrating, curing as well royalty and all taxes complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates Gr III Taken)			
		Patna Urban	5565.80	Per M ³
		Patna	5565.80	Per M ³
		Muzaffarpur	5565.80	Per M ³
		Darbhanga	5565.80	Per M ³
		Bhagalpur	5545.30	Per M ³
		Munger	5545.30	Per M ³
		Saharsa	5565.80	Per M ³
		Purnea	5565.80	Per M ³
		Gaya	5500.10	Per M ³
		Saran	5545.30	Per M ³
5.3.17	Providing and laying dry pitching with precast cement concrete blocks of size 600 mm x 600 mm x 300 mm in M-100 with nominal mix of (1:3:6) in floor and flank wall with approved quality of graded coarse aggregate of required grade (as per design) and approved quality of sand of requisite F.M washed and screened including necessary form work, tools and plants, vibrating, curing as well royalty and all taxes complete job as per specifications and direction of E/I. (Taking Rate of approved quality of aggregate as per Design) (Rate of Coarse aggregates Gr III Taken)			
		Patna Urban	5978.80	Per M ³
		Patna	5978.80	Per M ³
		Muzaffarpur	5978.80	Per M ³
		Darbhanga	5978.80	Per M ³
		Bhagalpur	5951.60	Per M ³
		Munger	5951.60	Per M ³
		Saharsa	5978.80	Per M ³
		Purnea	5978.80	Per M ³
		Gaya	5891.80	Per M ³
		Saran	5951.60	Per M ³
5.3.18	Providing shuttering including strutting, propping etc. and its removal after use in foundation as per specifications and direction of E/I.		567.30	Per M ²
5.3.19	Providing shuttering including strutting, propping etc. and its removal after use in various components of canal structure or embankment structure as per specifications and direction of E/I.		567.30	Per M ²
5.3.20	Providing centering including strutting, propping etc. and removing after use in deck slab as per specifications and direction of E/I.		670.40	Per M ²

A B C D E





5.3.21	Providing M.S reinforcement(Plain steel) as per approved design , drawing, removal of rust, cutting, bending, binding, including supplying annealed wire, placing M.S rods in position complete job as per specifications and direction of E/I.		
	(a).Dia of bar 6 mm	46423.30	Per M.T
	(B).Dia of bar above 6 mm to 12 mm	46423.30	Per M.T
	(B).Dia of bar above 14 mm to 50 mm	46423.30	Per M.T
5.3.22	Providing M.S reinforcement (Tor steel) as per approved design , drawing, removal of rust, cutting, bending, binding, including supplying annealed wire, placing M.S rods in position complete job as per specifications and direction of E/I.		
(a)	T.M.T.GRADE Fe-415- 8 mm	#VALUE!	Per M.T
(b)	T.M.T.GRADE Fe-415- 10 mm	#VALUE!	Per M.T
(c)	T.M.T.GRADE Fe-415- 12 mm	#VALUE!	Per M.T
(d)	T.M.T.GRADE Fe-415- 16 mm	#VALUE!	Per M.T
(e)	T.M.T.GRADE Fe-415- 20 mm	#VALUE!	Per M.T
(f)	T.M.T.GRADE Fe-415- 25 mm	#VALUE!	Per M.T
(g)	T.M.T.GRADE Fe-415- 28 mm	#VALUE!	Per M.T
(h)	T.M.T.GRADE Fe-415- 32 mm	#VALUE!	Per M.T
(i)	T.M.T.GRADE Fe-500- 8 mm	47282.00	Per M.T
(j)	T.M.T.GRADE Fe-500- 10 mm	45989.20	Per M.T
(k)	T.M.T.GRADE Fe-500- 12 mm	45342.90	Per M.T
(l)	T.M.T.GRADE Fe-500- 16 mm	45342.90	Per M.T
(m)	T.M.T.GRADE Fe-500- 20 mm	44955.00	Per M.T
(n)	T.M.T.GRADE Fe-500- 25 mm	44955.00	Per M.T
(o)	T.M.T.GRADE Fe-500- 28 mm	44955.00	Per M.T
(p)	T.M.T.GRADE Fe-500- 32 mm	44955.00	Per M.T
(q)	T.M.T.GRADE Fe-500- 36 mm	#VALUE!	Per M.T









5.3. CONCRETE WORK

Sr.No.	Description	Quantity	Unit	Rate	Amount	
5.3.1	Providing and laying P.C.C. M-100 with nominal mix of (1:3:6) with approved quality of graded stone chips (20 mm and down)and coarse granular sand of requisite F.M in lug slab, cross and longitudinal sleepers for lining of canals including cost of form work and its removal, curing, royalty and all other taxes etc all complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
A.	Materials					
	Stone chips (20 mm & down))	2.66	M ³	690.30	1836.20	
	Sand	1.330	M ³	145.10	192.98	
	Cement	0.443	M ³	8912.00	3948.02	
B.	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer	1.42	hr	66.00	93.72	
	(ii) Vibrator vide 3.22	1.42	hr	93.65	132.98	
C.	Shuttering					
	I. Form work for curved portion for 2.832 cum of concrete assuming 18.6sqm Vide item no 5.3.18	18.6	sqm	567.30	10551.78	
D.	Labour					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
	Total				19947.68	
	Add Overhead charge & C.P@15%				2992.15	
					22939.83	
	Add 1% Cess				229.40	
					23169.22	8181.22
			Say Rs	8181.20	Per M ³	
5.3.2	Providing and laying P.C.C. M-75 with nominal mix of (1:4:8) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M ,washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
A.	MATERIALS					
	Coarse aggregates Gr III (Rate of approved quality of aggregate as per Design)	2.718	M ³	489.70	1331.00	
	Sand	1.368	M ³	145.10	198.50	










	Cement	0.34	M ³	8912.00	3030.08	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i) Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3	66.00				
	per hour. Used rate per hourx2.832/1.98				94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour.	93.65				
	Used rate per hourx2.832/1.98				133.94	
	Total				7855.42	
	Add Overhead charge & C.P@15%				1178.31	
					9033.74	
	Add 1% Cess				90.34	
					9124.08	3221.78
			Say Rs	3221.80	Per M ³	
5.3.3	Providing and laying P.C.C. M-100 with nominal mix of (1:3:6) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
A.	MATERIALS					
	Coarse aggregates Gr IV (Rate of approved quality of aggregate as per Design)	2.66	M ³	512.40	1362.98	
	Sand	1.33	M ³	145.10	192.98	
	Cement	0.443	M ³	8912.00	3948.02	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i) Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3	66.00				
	per hour. Used rate per hourx2.832/1.98				94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour.	93.65				
	Used rate per hourx2.832/1.98				133.94	
	Total				8799.83	
	Add Overhead charge & C.P@15%				1319.97	
					10119.80	

Be   

	Add 1% Cess				101.20	
					10221.00	3609.11
		Say Rs		3609.10	Per M ³	
5.3.4	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2:4) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :- Per Cum					
	Taking Out put= 2.832 Cum					
A.	MATERIALS					
	Coarse aggregates (20 mm To 10 mm) (Taking Rate of approved quality of aggregate as per Design)	2.548	M ³	690.30	1758.88	
	Sand	1.274	M ³	145.10	184.86	
	Cement	0.637	M ³	8912.00	5676.94	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1	nos	248.00	249.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i) Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
	Total				10916.53	
	Add Overhead charge & C.P.@15%				1637.48	
					12554.01	
	Add 1% Cess				125.54	
					12679.55	4477.24
		Say Rs		4477.20	Per M ³	
5.3.5	Providing and laying P.C.C. or R.C.C M-200 with nominal mix of (1:1.5:3) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
A.	MATERIALS					

	Coarse aggregates (20 mm To 10 mm) (Rate of approved quality of aggregate as per Design)	2.436	M ³	690.30	1681.57	
	Sand	1.218	M ³	145.10	176.73	
	Cement	0.812	M ³	8912.00	7236.54	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i) Concrete mixer (10 H.P.) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
	Total				12390.69	
	Add Overhead charge & C.P@15%				1858.60	
					14249.29	
	Add 1% Cess				142.49	
					14391.79	5081.85
		Say Rs		5081.80	Per M ³	
5.3.6	Providing and laying P.C.C. or R.C.C M-250 with nominal mix of (1:1.:2) in foundation of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
A.	MATERIALS		Unit-per M ³			
	Coarse aggregates (20 mm To 10 mm) (Rate of approved quality of aggregate as per Design)	2.40	M ³	690.30	1656.72	
	Sand	1.20	M ³	145.10	174.12	
	Cement	1.20	M ³	8912.00	10694.4	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i) Concrete mixer (10 H.P.) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	

	Total				15821.08	
	Add Overhead charge & C.P@15%				2373.16	
					18194.25	
	Add 1% Cess				181.94	
					18376.19	6488.77
		Say Rs		6488.80		Per M ³
5.3.7	Providing and laying P.C.C. M-75 with nominal mix of (1:4:8) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
A.	MATERIALS					
	Coarse aggregates Gr III (Rate of approved quality of aggregate as per Design)	2.718	M ³	489.70	1331.00	
	Sand	1.368	M ³	145.10	198.50	
	Cement	0.34	M ³	8912.00	3030.08	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Cr II	1.25	nos	249.00	311.25	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
	Total				7917.67	
	Add Overhead charge & C.P@15%				1187.65	
					9105.33	
	Add 1% Cess				91.05	
					9196.38	3247.31
		Say Rs		3247.30		Per M ³
5.3.8	Providing and laying P.C.C. M-100 with nominal mix of (1:3:6) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					

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Taking Out put =2.832 Cum					
A.	MATERIALS				
	Coarse aggregates Gr IV (Cost of coarse aggregate as per Design)	2.66	M ³	512.40	1362.98
	Sand	1.33	M ³	145.10	192.98
	Cement	0.443	M ³	8912.00	3948.02
B.	LABOUR				
	Head mason	0.5	nos	279.00	139.50
	Mason Gr II	1.25	nos	249.00	311.25
	Unskilled mazdoor	12	nos	206.00	2472.00
	Bhisti	1	nos	207.00	207.00
C.	HIRE CHARGES OF MACHINE				
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94
					8862.08
	Add Overhead charge & C.P@15%				1329.31
					10191.39
	Add 1% Cess				101.91
					10293.30
					3634.64
		Say Rs		3634.60	Per M ³
5.3.9	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2.:4) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.				
	Unit :-Per Cum				
	Taking Out put=2.832 Cum				
A.	MATERIALS				
	Coarse aggregates (20 mm to 10 mm) (Cost of coarse aggregate as per Design)	2.548	M ³	690.30	1758.884
	Sand	1.274	M ³	145.10	184.86
	Cement	0.637	M ³	8912.00	5676.944
B.	LABOUR				
	Head mason	0.5	nos	279.00	139.50
	Mason Gr II	1.25	nos	249.00	311.25
	Unskilled mazdoor	12	nos	206.00	2472.00
	Bhisti	1	nos	207.00	207.00
C.	HIRE CHARGES OF MACHINE				
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basis of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40
	(ii) Vibrator 1no. to vibrate 2.832 cum on the basis of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94

					10978.78	
	Add Overhead charge & C.P.@15%				1646.82	
					12625.60	
	Add 1% Cess				126.26	
					12751.85	4502.77
		Say Rs		4502.80	Per M ³	
5.3.10	Providing and laying P.C.C. or R.C.C M-200 with nominal mix of (1:1.5:3) in superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing., royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
A.	MATERIALS					
	Coarse aggregates (20 mm to 10 mm) (Cost of coarse aggregate as per Design)	2.436	M ³	690.30	1681.57	
	Sand	1.218	M ³	145.10	176.73	
	Cement	0.812	M ³	8912.00	7236.54	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1.25	nos	249.00	311.25	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
					12452.94	
	Add Overhead charge & C.P.@15%				1867.94	
					14320.88	
	Add 1% Cess				143.21	
					14464.09	5107.38
		Say Rs		5107.40	Per M ³	
5.3.11	Providing and laying P.C.C. or R.C.C M-250 with nominal mix of (1:1:2) superstructure of various components of canal or embankment structures with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					

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A. MATERIALS					
Coarse aggregates (20 mm to 10 mm) (Cost of coarse aggregate as per Design)	2.379	M ³	690.30	1642.22	
Sand	1.189	M ³	145.10	172.52	
Cement	1.189	M ³	8912.00	10596.37	
B. LABOUR					
Head mason	0.5	nos	279.00	139.50	
Mason Gr II	1.25	nos	249.00	311.25	
Unskilled mazdoor	12	nos	206.00	2472.00	
Bhisti	1	nos	207.00	207.00	
C. HIRE CHARGES OF MACHINE					
(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00				94.40
(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65				133.94
					15769.21
Add Overhead charge & C.P@15%					2365.38
					18134.59
Add 1% Cess					181.35
					18315.94
					6467.49
	Say Rs		6467.50	Per M ³	
5.3.12 Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2:4) in deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M, washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum				
	Taking Out put=2.832 Cum				
A. MATERIALS					
Coarse aggregates (20 mm to 10 mm) (Cost of coarse aggregate as per Design)	2.549	M ³	690.30	1759.575	
Sand	1.274	M ³	145.10	184.86	
Cement	0.637	M ³	8912.00	5676.94	
B. LABOUR					
Head mason	0.5	nos	279.00	139.50	
Mason Gr II	1.25	nos	249.00	311.25	
Unskilled mazdoor	12	nos	206.00	2472.00	
Bhisti	1	nos	207.00	207.00	
C. HIRE CHARGES OF MACHINE					
(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00				94.40
(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65				133.94
					10979.47
Add Overhead charge & C.P@15%					1646.92

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					12626.39	
	Add 1% Cess				126.26	
					12752.65	4503.06
		Say Rs		4503.10	Per M ³	
5.3.13	Providing and laying P.C.C. or R.C.C M-200 with nominal mix of (1:1.5:3) in deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
	A. MATERIALS					
	Coarse aggregates (20 mm to 10 mm) (Cost of coarse aggregate as per Design)	2.436	M ³	690.30	1681.57	
	Sand	1.218	M ³	145.10	176.73	
	Cement	0.812	M ³	8912.00	7236.54	
	B. LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1.25	nos	249.00	311.25	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
	C. HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
					12452.94	
	Add Overhead charge & C.P@15%				1867.94	
					14320.88	
	Add 1% Cess				143.21	
					14464.09	5107.38
		Say Rs		5107.40	Per M ³	
5.3.14	Providing and laying P.C.C. or R.C.C M-150 with nominal mix of (1:2:4) in wearing coat over deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
	A. MATERIALS					
	Coarse aggregates (10 mm to 5 mm) (Cost of coarse aggregate as per Design)	2.548	M ³	566.60	1443.70	

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	Sand	1.274	M ³	145.10	184.86	
	Cement	0.637	M ³	8912.00	5676.94	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
	Add Overhead charge & C.P@15%				10725.84	
					1608.88	
	Add 1% Cess				12334.72	
					123.35	
					12458.06	4399.03
		Say Rs		4399.00	Per M ³	
5.3.15	Providing and laying P.C.C. or R.C.C M-200 with nominal mix of (1:1.5:3) in wearing coat over deck slab with approved quality of graded coarse aggregate of required grade (as per design) and approved quality sand of requisite F.M washed and screened including necessary tools and plants, vibrating, curing, royalty and all taxes etc. excluding cost of form work as well reinforcement, its cutting, bending, binding and placing complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
A.	MATERIALS					
	Coarse aggregates (10 mm to 5 mm) (Cost of coarse aggregate as per Design)	2.435	M ³	566.60	1379.67	
	Sand	1.217	M ³	145.10	176.59	
	Cement	0.812	M ³	8912.00	7236.54	
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
C.	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
					12213.14	
	Add Overhead charge & C.P@15%				1831.97	
					14045.12	
	Add 1% Cess				140.45	
					14185.57	5009.03

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
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		Say Rs		5009.00	Per M ³	
5.3.16	Providing and laying dry pitching with precast cement concrete blocks of size 600 mm x 600 mm x 300 mm in M-75 with nominal mix of (1:4:8) in floor and flank wall with approved quality of graded coarse aggregate of required grade (as per design) and approved quality of sand of requisite F.M washed and screened including necessary form work, tools and plants, vibrating, curing as well royalty and all taxes complete job as per specifications and direction of E/I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
A.	MATERIALS					
	Coarse aggregates Gr III (Cost of coarse aggregate as per Design)	2.720	M ³	489.70	1331.98	
	Sand	1.360	M ³	145.10	197.34	
	Cement	0.34	M ³	8912.00	3030.08	
					4559.40	A
B.	LABOUR					
	Head mason	0.5	nos	279.00	139.50	
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Bhisti	1	nos	207.00	207.00	
	Unskilled mazdoor for placing blocks in position	4	nos	206.00	824.00	
					3891.50	B
C	HIRE CHARGES OF MACHINE					
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40	
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94	
					228.34	C
D	SHUTTERING CHARGES					
	Shuttering 25 blocks 25 mm thick mango planks with 10 % wastage 20.45 sqm 20.45X25/1000	0.51	M ³	33253.00	17000.6	
	Add 1 % for cost of nails and spikes				170.01	
	LABOUR					
	Carpenter Gr II 3 nos @	3	Rs	249.00	747.00	
	Unskilled mazdoor 8 nos @	8	Rs	206.00	1648.00	
	Assuming 4 uses to calculate				19565.60	a
	Cost of shuttering for 2.832 cum = a/4				4891.40	D
	TOTAL(A+B+C+D)				13570.64	
	Add Overhead charge & C.P.@15%				2035.60	
					15606.24	
	Add 1% Cess				156.06	
					15762.30	5565.78
		Say Rs		5565.80	Per M ³	

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5.3.17	Providing and laying dry pitching with precast cement concrete blocks of size 600 mm x 600 mm x 300 mm in M-100 with nominal mix of (1:3:6) in floor and flank wall with approved quality of graded coarse aggregate of required grade(as per design) and approved quality of sand of requisite F.M washed and screened including necessary form work, tools and plants, vibrating, curing as well royalty and all taxes complete job as per specifications and direction of E/I.						
	Unit :-Per Cum						
	Taking Out put =2.832 Cum						
A	MATERIALS						
	Coarse aggregates Gr IV (Cost of coarse aggregate as per Design)	2.66	M ³	512.40	1362.98		
	Sand	1.33	M ³	145.10	192.98		
	Cement	0.45	M ³	8912.00	4010.40		
					5566.37	A	
B	LABOUR						
	Head mason	0.5	nos	279.00	139.50		
	Mason Gr II	1	nos	249.00	249.00		
	Unskilled mazdoor	12	nos	206.00	2472.00		
	Bhisti	1	nos	207.00	207.00		
	Unskilled mazdoor for placing blocks in position	4	nos	206.00	824.00		
					3891.50	B	
C	HIRE CHARGES OF MACHINE						
	(i)Concrete mixer (10 H.P) for 2.832 cum consists on the basic of mixer production capacity 1.98 m3 per hour. Used rate per hourx2.832/1.98	66.00			94.40		
	(ii) Vibrator 1no. To vibrate 2.832 cum on the basic of vibrator capacity 1.98 cum per hour. Used rate per hourx2.832/1.98	93.65			133.94		
					228.34	C	
D	SHUTTERING CHARGES						
	Shuttering 25 blocks 25 mm thick mango planks with 10 % wastage 20.45 sqm 20.45X25/1000 0.51M	0.51	PerM ³	33253.00	17000.6		
	Add 1 % for cost of nails and spikes				170.01		
	LABOUR						
	Carpenter Gr II 3 nos @	3	Rs	249.00	747.00		
	Unskilled mazdoor 8 nos @	8	Rs	206.00	1648.00		
	Assuming 4 uses to calculate				19565.60	a	
	Cost of shuttering for 2.832 cum = a/4				4891.40	D	
	TOTAL=A+B+C+D				14577.61		
	Add Overhead charge & C.P@15%				2186.64		
					16764.25		
	Add 1% Cess				167.64		
					16931.89	5978.78	
		Say Rs		5978.80	Per M ³		
5.3.18	Providing shuttering including strutting, propping etc. and its removal after use in foundation as per specifications and direction of E/I.						
	Unit :-Per Sqm						
	Taking Out put =9.30 Sqm						
A	MATERIALS						
	Local wood planks 38 mm thick 9.3 x 38 / 1000 =	0.353	cum				

	Add 5 % wastage	0.017	cum			
	Cost of 0.37 cum lock wood planks	0.37	cum	33253.00	12303.61	
	Add cost for strutting and propping @ 10 % of above				1230.36	
	Total cost of wood				13533.97	
	Assuming 4 uses to calculate	4	use			
	Cost of shuttering for 2.832 cum total cost/4				3383.49	
	Add 1 % for cost of nails and spikes on total cost of wood				135.34	
					3518.83	A
B	LABOUR					
	Carpenter Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	2.5	nos	206.00	515.00	
					888.50	B
C	Carriage of materials					
	Cost of the carriage of materials from Godown and back to godown after use including loading unloading and stacking @ 1 % of Total cost of wooden materials				135.34	C
	TOTAL cost per 9.3 sqm =A+B+C				4542.67	
	Add Overhead charge & C.P@15%				681.40	
					5224.07	
	Add 1% Cess				52.24	
					5276.31	567.35
		Say Rs		567.30	Per M ²	
5.3.19	Providing shuttering including strutting, propping etc. and its removal after use in various components of canal structure or embankment structure as per specifications and direction of E/I.					
	Unit :-Per Sqm					
	Taking Out put=9.30 Sqm					
A	MATERIALS					
	Local wood planks 38 mm thick 9.3 x 38 / 1000 =0	0.353	cum			
	Add 5 % wastage	0.017	cum			
	Cost of 0.37 cum lock wood planks	0.37	cum	33253.00	12303.61	
	Add cost for strutting and propping @ 10 % of above				1230.36	
	Total cost of wood				13533.97	
	Assuming 4 uses to calculate	4	use			
	Cost of shuttering for 2.832 cum total cost/4				3383.49	
	Add 1 % for cost of nails and spikes on total cost of wood				135.34	
					3518.83	A
B	LABOUR					
	Carpenter Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	2.5	nos	206.00	515.00	
					888.50	B
C	Carriage of materials					
	Cost of the carriage of materials from Godown and back to godown after use including loading unloading and stacking @ 1 % of Total cost of wooden materials				135.34	C
	TOTAL cost per 9.3 sqm =A+B+C				4542.67	
	Add Overhead charge & C.P@15%				681.40	
					5224.07	
	Add 1% Cess				52.24	
					5276.31	567.35

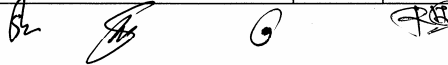
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		Say Rs		567.30	Per M ²	
5.3.20	Providing centering including strutting, propping etc. and removing after use in deck slab as per specifications and direction of E/I.					
	Unit :-Per Sqm					
	Taking Out put =22.326 Sqm					
	(Assuming size in slab 7.32 x 3.05 =22.326 sqm)					
A.	MATERIALS					
	a. 40 mm thick local wood planks 22.326 x40 / 1000					
	=0.85					
	Add 5 % for wastages =0.04					
	=0.89	0.89	cum	33253.00		
	Assuming 4 uses to calculate					
	Cost of planks per use =0.89 x rate of local wood /4				7398.79	
	b. Assuming av. Height of slab from G.L=3.66 M					
	150 mm sal bullah required =78 nos					
	Length of sal bullah =78 x3.66 =285.48 Mtr	285.48	mtr	40.70		
	(Assuming sal bullah to be used 10 times for centerins					
	=285.48 x Rate per Mtr / 10				1161.90	
	c. Salwood scanting required (75 mm x 63 mm size) =0.311 cum	0.311	cum	54109.00		
	(Assuming 10 uses)					
	Cost per use =0.311 x Rate per Mtr/10				1682.79	
					10243.49	
	Add 1 % for cost of nails and spikes				102.43	
					10345.92	(A)
B.	LABOUR					
	Carpenter Gr II	4	nos	249.00	996.00	
	Unskilled mazdoor	7	nos	206.00	1442.00	
C.	Carrage of materials				2438.00	(B)
	Cost of the carriage of materials from Godown and back to godown after use including loading unloading and stacking @ 1 % of Total cost of wooden materials (A)				102.43	(C)
	TOTAL cost per 22.326 sqm =A+B+C				12886.36	
	Add Overhead charge & C.P@15%				1932.95	
					14819.31	
	Add 1% Cess				148.19	
					14967.50	670.41
		Say Rs		670.40	Per M ²	
5.3.21	Providing M.S reinforcement(Plain steel) as per approved design , drawing, removal of rust, cutting, bending, binding, including supplying annealed wire, placing M.S rods in position complete job as per specifications and direction of E/I.					
	Unit :-Per M.T					
	Assumng 1.00M.T					
	(a).Dia of bar 6mm					
(A).	Providing M.S reinforcement Plain (including 5 % wastage)	1.05	M.T	32473.90	34097.60	A
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	



	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					5870.80	B
	Total of A+B				39968.40	
	Add Overhead charge & C.P@15%				5995.26	
					45963.65	
	Add 1% Cess				459.64	
					46423.29	46423.30
			Say Rs	46423.30	Per M.T	
	(b)Dia. of bar above 6 mm to 12 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	32473.90	34097.60	A
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					5870.80	B
	Total of A+B				39968.40	
	Add Overhead charge & C.P@15%				5995.26	
					45963.65	
	Add 1% Cess				459.64	
					46423.29	46423.30
			Say Rs	46423.30	Per M.T	
	(c)Dia of bar above 14 mm to 50 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	32473.90	34097.60	A
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					5870.80	B
	Total of A+B				39968.40	
	Add Overhead charge & C.P@15%				5995.26	
					45963.65	
	Add 1% Cess				459.64	
					46423.29	46423.29
			Say Rs	46423.30	Per M.T	
5.3.22	Providing M.S reinforcement (Tor steel) as per approved design , drawing, removal of rust, cutting, bending, binding, including supplying annealed wire, placing M.S rods in position complete job as per specifications and direction of E/I.					
	Unit :-Per M.T					
	Assuming 1.00 M.T					
(a).	T.M.T Fe-415 8 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	

Ben *AS* *RS*

	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(b).	T.M.T Fe-415 10 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(c).	T.M.T Fe-415 12 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(d).	T.M.T Fe -415 16 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(e).	T.M.T Fe -415- 20 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	

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



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(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(f).°	T.M.T Fe -415- 25 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(g).	T.M.T Fe-415 28 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	
(h).	T.M.T Fe -415 32 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	#VALUE!	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
	Add Overhead charge & C.P@15%				#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!	Per M.T	

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(i).	T.M.T Fe -500	8 mm					
(A).	Providing M.S reinforcement Plain						
	(including 5 % wastage)	1.05	M.T	33178.00	34836.90		
(B).	i. Annealed wire	14	Kg	60.20	842.80		
	ii Black smith Gr II	9	nos	249.00	2241.00		
	iii. Head black smith	1	nos	279.00	279.00		
	iv. Skilled mazdoor	8	nos	262.00	2096.00		
	v Unskilled mazdoor	2	nos	206.00	412.00		
					40707.70		
	Add Overhead charge & C.P@15%				6106.16		
					46813.86		
	Add 1% Cess				468.14		
					47281.99	47281.99	
		Say Rs		47282.00	Per M.T		
(j).	T.M.T Fe -500	10 mm					
(A).	Providing M.S reinforcement Plain						
	(including 5 % wastage)	1.05	M.T	32118.00	33723.90		
(B).	i. Annealed wire	14	Kg	60.20	842.80		
	ii Black smith Gr II	9	nos	249.00	2241.00		
	iii. Head black smith	1	nos	279.00	279.00		
	iv. Skilled mazdoor	8	nos	262.00	2096.00		
	v Unskilled mazdoor	2	nos	206.00	412.00		
					39594.70		
	Add Overhead charge & C.P@15%				5939.21		
					45533.91		
	Add 1% Cess				455.34		
					45989.24	45989.24	
		Say Rs		45989.20	Per M.T		
(k).	T.M.T Fe -500	12 mm					
(A).	Providing M.S reinforcement Plain						
	(including 5 % wastage)	1.05	M.T	31588.00	33167.40		
(B).	i. Annealed wire	14	Kg	60.20	842.80		
	ii Black smith Gr II	9	nos	249.00	2241.00		
	iii. Head black smith	1	nos	279.00	279.00		
	iv. Skilled mazdoor	8	nos	262.00	2096.00		
	v Unskilled mazdoor	2	nos	206.00	412.00		
					39038.20		
	Add Overhead charge & C.P@15%				5855.73		
					44893.93		
	Add 1% Cess				448.94		
					45342.87	45342.87	
		Say Rs		45342.90	Per M.T		
(l).	T.M.T Fe -500	16 mm					
(A).	Providing M.S reinforcement Plain						
	(including 5 % wastage)	1.05	M.T	31588.00	33167.40		
(B).	i. Annealed wire	14	Kg	60.20	842.80		
	ii Black smith Gr II	9	nos	249.00	2241.00		
	iii. Head black smith	1	nos	279.00	279.00		
	iv. Skilled mazdoor	8	nos	262.00	2096.00		
	v Unskilled mazdoor	2	nos	206.00	412.00		
					39038.20		
	Add Overhead charge & C.P@15%				5855.73		
					44893.93		

	Add 1% Cess				448.94	
					45342.87	45342.87
		Say Rs		45342.90	Per M.T	
(m).	T.M.T Fe -500 20 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	31270.00	32833.50	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					38704.30	
	Add Overhead charge & C.P@15%				5805.65	
					44509.95	
	Add 1% Cess				445.10	
					44955.04	44955.04
		Say Rs		44955.00	Per M.T	
(n).	T.M.T Fe -500 25 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	31270.00	32833.50	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					38704.30	
	Add Overhead charge & C.P@15%				5805.65	
					44509.95	
	Add 1% Cess				445.10	
					44955.04	44955.04
		Say Rs		44955.00	Per M.T	
(o).	T.M.T Fe -500- 28 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	31270.00	32833.50	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					38704.30	
	Add Overhead charge & C.P@15%				5805.65	
					44509.95	
	Add 1% Cess				445.10	
					44955.04	44955.04
		Say Rs		44955.00	Per M.T	
(p).	T.M.T Fe -500 32 mm					
(A).	Providing M.S reinforcement Plain					
	(including 5 % wastage)	1.05	M.T	31270.00	32833.50	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	

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					38704.30	
	Add Overhead charge & C.P@15%				5805.65	
					44509.95	
	Add 1% Cess				445.10	
					44955.04	44955.04
		Say Rs		44955.00		Per M.T
(q).	T.M.T Fe -500 36 mm					
(A).	Providing M.S reinforcement Plain (including 5 % wastage)	1.05	M.T	Input	#VALUE!	
(B).	i. Annealed wire	14	Kg	60.20	842.80	
	ii Black smith Gr II	9	nos	249.00	2241.00	
	iii. Head black smith	1	nos	279.00	279.00	
	iv. Skilled mazdoor	8	nos	262.00	2096.00	
	v Unskilled mazdoor	2	nos	206.00	412.00	
					#VALUE!	
	Add Overhead charge & C.P@15%				#VALUE!	
					#VALUE!	
	Add 1% Cess				#VALUE!	
					#VALUE!	#VALUE!
		Say Rs		#VALUE!		Per M.T

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5.4 MASONRY WORK

Sr.No.	Item	Rate	Unit
5.4.1	Brick work in designation 100 A Brick with cement motar (1 : 3) in foundation with approved quality coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	5191.60	Per M ³
	Patna	4632.20	Per M ³
	Muzaffarpur	4669.90	Per M ³
	Darbhanga	4669.90	Per M ³
	Bhagalpur	4653.00	Per M ³
	Munger	4653.00	Per M ³
	Saharsa	4746.30	Per M ³
	Purnea	4899.60	Per M ³
	Gaya	4463.50	Per M ³
	Saran	4500.70	Per M ³
5.4.2	Brick work in designation 100 A Brick with cement motar (1 : 4) in foundation with approved quality coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	5013.60	Per M ³
	Patna	4454.20	Per M ³
	Muzaffarpur	4491.90	Per M ³
	Darbhanga	4491.90	Per M ³
	Bhagalpur	4478.10	Per M ³
	Munger	4478.10	Per M ³
	Saharsa	4568.30	Per M ³
	Purnea	4721.60	Per M ³
	Gaya	4295.10	Per M ³
	Saran	4325.70	Per M ³
5.4.3	Brick work in designation 100 A Brick with cement motar (1 : 5) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	4869.20	Per M ³
	Patna	4309.80	Per M ³
	Muzaffarpur	4347.50	Per M ³
	Darbhanga	4347.50	Per M ³
	Bhagalpur	4336.00	Per M ³
	Munger	4336.00	Per M ³
	Saharsa	4423.90	Per M ³
	Purnea	4577.20	Per M ³
	Gaya	4158.50	Per M ³
	Saran	4183.70	Per M ³
5.4.4	Brick work in designation 100 A Brick with cement motar (1 : 6) in foundation with approved quality coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	4764.20	Per M ³

		Patna	4204.80	Per M ³
		Muzzaffarpur	4242.60	Per M ³
		Darbhanga	4242.60	Per M ³
		Bhagalpur	4232.90	Per M ³
		Munger	4232.90	Per M ³
		Saharsa	4319.00	Per M ³
		Purnea	4472.30	Per M ³
		Gaya	4059.10	Per M ³
		Saran	4080.50	Per M ³
5.4.5	Brick work in designation 100 A Brick with cement motar (1:3) in superstructure with approved quality coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	5276.10	Per M ³
		Patna	4716.70	Per M ³
		Muzaffarpur	4754.40	Per M ³
		Darbhanga	4754.40	Per M ³
		Bhagalpur	4737.50	Per M ³
		Munger	4737.50	Per M ³
		Saharsa	4830.80	Per M ³
		Purnea	4984.10	Per M ³
		Gaya	4548.00	Per M ³
		Saran	4585.20	Per M ³
5.4.6	Brick work in designation 100 A Brick with cement motar (1 : 4) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	5098.10	Per M ³
		Patna	4538.70	Per M ³
		Muzzaffarpur	4576.40	Per M ³
		Darbhanga	4576.40	Per M ³
		Bhagalpur	4562.50	Per M ³
		Munger	4562.50	Per M ³
		Saharsa	4652.80	Per M ³
		Purnea	4806.10	Per M ³
		Gaya	4379.60	Per M ³
		Saran	4410.20	Per M ³
5.4.7	Brick work in designation 100 A Brick with cement motar (1 : 5) in superstructure with approved quality coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	4953.60	Per M ³
		Patna	4394.30	Per M ³
		Muzzaffarpur	4432.00	Per M ³
		Darbhanga	4432.00	Per M ³
		Bhagalpur	4420.50	Per M ³
		Munger	4420.50	Per M ³
		Saharsa	4508.40	Per M ³
		Purnea	4661.70	Per M ³
		Gaya	4242.90	Per M ³
		Saran	4268.20	Per M ³

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5.4.8	Brick work in designation 100 A Brick with cement mortar (1 : 6) in superstructure with approved quality coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	4848.70	Per M ³
	Patna	4289.30	Per M ³
	Muzaffarpur	4327.10	Per M ³
	Darbhanga	4327.10	Per M ³
	Bhagalpur	4317.40	Per M ³
	Munger	4317.40	Per M ³
	Saharsa	4403.50	Per M ³
	Purnea	4556.80	Per M ³
	Gaya	4143.60	Per M ³
	Saran	4165.00	Per M ³
5.4.9	Providing rough dressed random rubble stone masonry in cement mortar (1:3) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E/I.		
	Patna Urban	2415.40	Per M ³
	Patna	2415.40	Per M ³
	Muzaffarpur	2415.40	Per M ³
	Darbhanga	2415.40	Per M ³
	Bhagalpur	2394.30	Per M ³
	Munger	2394.30	Per M ³
	Saharsa	2415.40	Per M ³
	Purnea	2415.40	Per M ³
	Gaya	2347.80	Per M ³
	Saran	2394.30	Per M ³
5.4.10	Providing rough dressed random rubble stone masonry in cement mortar (1:4) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	2163.70	Per M ³
	Patna	2163.70	Per M ³
	Muzaffarpur	2163.70	Per M ³
	Darbhanga	2163.70	Per M ³
	Bhagalpur	2146.80	Per M ³
	Munger	2146.80	Per M ³
	Saharsa	2163.70	Per M ³
	Purnea	2163.70	Per M ³
	Gaya	2109.60	Per M ³
	Saran	2146.80	Per M ³
5.4.11	Providing rough dressed random rubble stone masonry in cement mortar (1:5) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	2006.40	Per M ³
	Patna	2006.40	Per M ³
	Muzaffarpur	2006.40	Per M ³
	Darbhanga	2006.40	Per M ³
	Bhagalpur	1992.20	Per M ³
	Munger	1992.20	Per M ³

		Saharsa	2006.40	Per M ³
		Purnea	2006.40	Per M ³
		Gaya	1960.80	Per M ³
		Saran	1992.20	Per M ³
5.4.12	Providing rough dressed random rubble/coarse stone masonry in cement mortar (1:3) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	2521.00	Per M ³
		Patna	2521.00	Per M ³
		Muzzaffarpur	2521.00	Per M ³
		Darbhanga	2521.00	Per M ³
		Bhagalpur	2499.90	Per M ³
		Munger	2499.90	Per M ³
		Saharsa	2521.00	Per M ³
		Purnea	2521.00	Per M ³
		Gaya	2453.40	Per M ³
		Saran	2499.90	Per M ³
5.4.13	Providing rough dressed random rubble/coarse stone masonry in cement mortar (1 : 4) .in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal, wherever required ,including royalty and all taxes etc. all complete job as per specification and direction of E / I.			
		Patna Urban	2269.30	Per M ³
		Patna	2269.30	Per M ³
		Muzzaffarpur	2269.30	Per M ³
		Darbhanga	2269.30	Per M ³
		Bhagalpur	2252.40	Per M ³
		Munger	2252.40	Per M ³
		Saharsa	2269.30	Per M ³
		Purnea	2269.30	Per M ³
		Gaya	2215.20	Per M ³
		Saran	2252.40	Per M ³
5.4.14	Providing rough dressed random rubble/course stone masonry in cement mortar (1:5) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required ,including royalty and all taxes etc. all complete job as per specification and direction of E / I.			
		Patna Urban	2112.00	Per M ³
		Patna	2112.00	Per M ³
		Muzzaffarpur	2112.00	Per M ³
		Darbhanga	2112.00	Per M ³
		Bhagalpur	2097.80	Per M ³
		Munger	2097.80	Per M ³
		Saharsa	2112.00	Per M ³
		Purnea	2112.00	Per M ³
		Gaya	2066.40	Per M ³
		Saran	2097.80	Per M ³

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5.4 MASONRY WORK

Sl.No.	Description	Quantity	Unit	Rate	Amount	Ref.
5.4.1	Brick work in designation 100 A Brick with cement mortar (1 : 3) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.84	cum	145.10	121.88	
	Cement	0.28	cum	8912.00	2495.36	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	1	nos	207.00	207.00	
	Add Overhead charge & C.P@15%				12658.22	
					1898.73	
					14556.95	
	Add 1% Cess				145.57	
					14702.52	5191.57
		Say Rs		5191.60	Per M ³	
5.4.2	Brick work in designation 100 A Brick with cement mortar (1 : 4) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put=2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.92	cum	145.10	133.49	
	Cement	0.23	cum	8912.00	2049.76	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	1	nos	207.00	207.00	
	Add Overhead charge & C.P@15%				12224.23	
					1833.63	
					14057.86	
	Add 1% Cess				140.58	
					14198.44	5013.57

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5.4.3	Brick work in designation 100 A Brick with cement mortar (1 : 5) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.	Say Rs		5013.60	Per M ³	
	Unit :-Per Cum					
	Taking Out put= 2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.95	cum	145.10	137.85	
	Cement	0.19	cum	8912.00	1693.28	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	1	nos	207.00	207.00	
					11872.10	
	Add Overhead charge & C.P@15%				1780.82	
					13652.92	
	Add 1% Cess				136.53	
					13789.44	4869.15
		Say Rs		4869.20	Per M ³	
5.4.4	Brick work in designation 100 A Brick with cement mortar (1 : 6) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.968	cum	145.10	140.46	
	Cement	0.161	cum	8912.00	1434.83	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	1	nos	207.00	207.00	
					11616.26	
	Add Overhead charge & C.P@15%				1742.44	
					13358.70	
	Add 1% Cess				133.59	
					13492.29	4764.23
		Say Rs		4764.20	Per M ³	

5.4.5	Brick work in designation 100 A Brick with cement mortar (1 : 3) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. all complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.84	cum	145.10	121.88	
	Cement	0.28	cum	8912.00	2495.36	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	6	nos	206.00	1236.00	
	Bhisti	1	nos	207.00	207.00	
					12864.22	
	Add Overhead charge & C.P@15%				1929.63	
					14793.85	
	Add 1% Cess				147.94	
					14941.79	5276.06
		Say Rs		5276.10	Per M ³	
5.4.6	Brick work in designation 100 A Brick with cement mortar (1 : 4) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.92	cum	145.10	133.49	
	Cement	0.23	cum	8912.00	2049.76	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	6	nos	206.00	1236.00	
	Bhisti	1	nos	207.00	207.00	
					12430.23	
	Add Overhead charge & C.P@15%				1864.53	
					14294.76	
	Add 1% Cess				142.95	
					14437.71	5098.06
		Say Rs		5098.10	Per M ³	

5.4.7	Brick work in designation 100 A Brick with cement mortar (1 : 5) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.95	cum	145.10	137.85	
	Cement	0.19	cum	8912.00	1693.28	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	6	nos	206.00	1236.00	
	Bhisti	1	nos	207.00	207.00	
					12078.10	
	Add Overhead charge & C.P@15%				1811.72	
					13889.82	
	Add 1% Cess				138.90	
					14028.71	4953.64
		Say Rs		4953.60	Per M ³	
5.4.8	Brick work in designation 100 A Brick with cement mortar (1 : 6) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints to 12 mm depth, curing, scaffolding and its removal wherever required including royalty and all taxes etc. all complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Bricks	1150	nos	7084.00	8146.60	
	Sand	0.968	cum	145.10	140.46	
	Cement	0.161	cum	8912.00	1434.83	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2.5	nos	249.00	622.50	
	Unskilled mazdoor	6	nos	206.00	1236.00	
	Bhisti	1	nos	207.00	207.00	
					11822.26	
	Add Overhead charge & C.P@155				1773.34	
					13595.60	
	Add 1% Cess				135.96	
					13731.56	4848.71
		Say Rs		4848.70	Per M ³	
5.4.9	Providing rough dressed random rubble stone masonry in cement mortar (1:3) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc.complete job as per specification and direction of E / I.					

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	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Stone boulder	2.832	cum	335.90	951.27	
	Sand	1.050	cum	145.10	152.36	
	Cement	0.350	cum	8912.00	3119.20	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	0.5	nos	207.00	103.50	
					5889.20	
	Add Overhead charge & C.P@15%				883.38	
					6772.58	
	Add 1% Cess				67.73	
					6840.30	2415.36
		Say Rs		2415.40	Per M ³	
5.4.10	Providing rough dressed random rubble stone masonry in cement mortar (1:4) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc.complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Stone boulder	2.832	cum	335.90	951.27	
	Sand	1.120	cum	145.10	162.51	
	Cement	0.280	cum	8912.00	2495.36	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	0.5	nos	207.00	103.50	
					5275.52	
	Add Overhead charge & C.P@15%				791.33	
					6066.84	
	Add 1% Cess				60.67	
					6127.51	2163.67
		Say Rs		2163.70	Per M ³	
5.4.11	Providing rough dressed random rubble stone masonry in cement mortar (1:5) in foundation with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc.complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Stone boulder	2.832	cum	335.90	951.27	
	Sand	1.180	cum	145.10	171.22	
	Cement	0.236	cum	8912.00	2103.23	

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	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	5	nos	206.00	1030.00	
	Bhisti	0.5	nos	207.00	103.50	
					4892.09	
	Add Overhead charge & C.P@15%				733.81	
					5625.91	
	Add 1% Cess				56.26	
					5682.17	2006.41
		Say Rs		2006.40	Per M ³	
5.4.12	Providing rough dressed random rubble/coarse stone masonry in cement mortar (1:3) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc.complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Stone boulder	2.832	cum	335.90	951.27	
	Sand	1.050	cum	145.10	152.36	
	Cement	0.350	cum	8912.00	3119.20	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	6.25	nos	206.00	1287.50	
	Bhisti	0.5	nos	207.00	103.50	
					6146.70	
	Add Overhead charge & C.P@15%				922.00	
					7068.70	
	Add 1% Cess				70.69	
					7139.39	2520.97
		Say Rs		2521.00	Per M ³	
5.4.13	Providing rough dressed random rubble/coarse stone masonry in cement mortar (1:4) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curing, scaffolding and its removal wherever required including royalty and all taxes etc.complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Stone boulder	2.832	cum	335.90	951.27	
	Sand	1.120	cum	145.10	162.51	
	Cement	0.280	cum	8912.00	2495.36	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	6.25	nos	206.00	1287.50	
	Bhisti	0.5	nos	207.00	103.50	
					5533.02	

	Add Overhead charge & C.P@15%				829.95	
					6362.97	
	Add 1% Cess				63.63	
					6426.60	2269.28
		Say Rs		2269.30	Per M ³	
5.4.14	Providing rough dressed random rubble /coarse stone masonry in cement mortar (1:5) in superstructure with approved quality of coarse sand of requisite F.M. washed and screened with raking out joints, curring, scaffolding and its removal wherever required including royalty and all taxes etc.complete job as per specification and direction of E / I.					
	Unit :-Per Cum					
	Taking Out put =2.832 Cum					
	Materials					
	Stone boulder	2.832	cum	335.90	951.27	
	Sand	1.180	cum	145.10	171.22	
	Cement	0.236	cum	8912.00	2103.23	
	Labour					
	Head mason	0.125	nos	279.00	34.88	
	Mason Gr II	2	nos	249.00	498.00	
	Unskilled mazdoor	6.25	nos	206.00	1287.50	
	Bhisti	0.5	nos	207.00	103.50	
					5149.59	
	Add Overhead charge & C.P@15%				772.44	
					5922.03	
	Add 1% Cess				59.22	
					5981.25	2112.02
		Say Rs		2112.00	Per M ³	

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5.5. PLASTER WORK





Sr.No.	Item	Rate	Unit
5.5.1	Providing 12 mm thick cement plaster (1: 3) with approved quality sand of requisite F.M, washed and screened including curing, scaffolding wherever required, and its removal, royalty and all taxes etc. all complete job as per specification and direction of E / I.		
	Patna Urban	132.80	Per M ²
	Patna	132.80	Per M ²
	Muzaffarpur	132.80	Per M ²
	Darbhanga	132.80	Per M ²
	Bhagalpur	132.00	Per M ²
	Munger	132.00	Per M ²
	Saharsa	132.80	Per M ²
	Purnea	132.80	Per M ²
	Gaya	130.30	Per M ²
	Saran	132.00	Per M ²
5.5.2	Providing 12 mm thick cement plaster (1: 4) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	122.90	Per M ²
	Patna	122.90	Per M ²
	Muzaffarpur	122.90	Per M ²
	Darbhanga	122.90	Per M ²
	Bhagalpur	122.30	Per M ²
	Munger	122.30	Per M ²
	Saharsa	122.90	Per M ²
	Purnea	122.90	Per M ²
	Gaya	120.90	Per M ²
	Saran	122.30	Per M ²
5.5.3	Providing 12 mm thick cement plaster (1:5) with approved quality sand of requisite F.M,washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	116.30	Per M ²
	Patna	116.30	Per M ²
	Muzaffarpur	116.30	Per M ²
	Darbhanga	116.30	Per M ²
	Bhagalpur	115.80	Per M ²
	Munger	115.80	Per M ²
	Saharsa	116.30	Per M ²
	Purnea	116.30	Per M ²
	Gaya	114.70	Per M ²
	Saran	115.80	Per M ²
5.5.4	Providing 25 mm thick cement plaster (1:3) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.		
	Patna Urban	223.00	Per M ²
	Patna	223.00	Per M ²
	Muzaffarpur	223.00	Per M ²
	Darbhanga	223.00	Per M ²
	Bhagalpur	221.50	Per M ²
	Munger	221.50	Per M ²

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		Saharsa	223.00	Per M ²
		Purnea	223.00	Per M ²
		Gaya	218.00	Per M ²
		Saran	221.50	Per M ²
5.5.5	Providing 25 mm thick cement plaster (1:4) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	204.50	Per M ²
		Patna	204.50	Per M ²
		Muzaffarpur	204.50	Per M ²
		Darbhanga	204.50	Per M ²
		Bhagalpur	203.30	Per M ²
		Munger	203.30	Per M ²
		Saharsa	204.50	Per M ²
		Purnea	204.50	Per M ²
		Gaya	200.50	Per M ²
		Saran	203.30	Per M ²
5.5.6	Providing 25 mm thick cement plaster (1:5) with approved quality sand of requisite F.M,washed and screened including curing, scaffolding wherever and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	189.80	Per M ²
		Patna	189.80	Per M ²
		Muzaffarpur	189.80	Per M ²
		Darbhanga	189.80	Per M ²
		Bhagalpur	188.80	Per M ²
		Munger	188.80	Per M ²
		Saharsa	189.80	Per M ²
		Purnea	189.80	Per M ²
		Gaya	186.60	Per M ²
		Saran	188.80	Per M ²
5.5.7	Providing 12 mm thick water proof cement plaster (1:3) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	142.80	Per M ²
		Patna	142.80	Per M ²
		Muzaffarpur	142.80	Per M ²
		Darbhanga	142.80	Per M ²
		Bhagalpur	142.00	Per M ²
		Munger	142.00	Per M ²
		Saharsa	142.80	Per M ²
		Purnea	142.80	Per M ²
		Gaya	140.30	Per M ²
		Saran	142.00	Per M ²
5.5.8	Providing 25 mm thick water proof cement plaster (1:3) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	243.00	Per M ²
		Patna	243.00	Per M ²
		Muzaffarpur	243.00	Per M ²
		Darbhanga	243.00	Per M ²
		Bhagalpur	241.40	Per M ²

		Munger	241.40	Per M ²
		Saharsa	243.00	Per M ²
		Purnea	243.00	Per M ²
		Gaya	238.00	Per M ²
		Saran	241.40	Per M ²
5.5.9	Providing 25 mm thick water proof cement plaster (1:4) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	224.50	Per M ²
		Patna	224.50	Per M ²
		Muzaffarpur	224.50	Per M ²
		Darbhanga	224.50	Per M ²
		Bhagalpur	223.20	Per M ²
		Munger	223.20	Per M ²
		Saharsa	224.50	Per M ²
		Purnea	224.50	Per M ²
		Gaya	220.50	Per M ²
		Saran	223.20	Per M ²
5.5.10	Providing 1.5 mm thick cement punning including curing, , royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	39.70	Per M ²
		Patna	39.70	Per M ²
		Muzaffarpur	39.70	Per M ²
		Darbhanga	39.70	Per M ²
		Bhagalpur	39.50	Per M ²
		Munger	39.50	Per M ²
		Saharsa	39.70	Per M ²
		Purnea	39.70	Per M ²
		Gaya	38.90	Per M ²
		Saran	39.50	Per M ²
5.5.11	Providing cement ruled pointing (1:3) with approved quality sand of requisite F.M, washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	114.50	Per M ²
		Patna	114.50	Per M ²
		Muzaffarpur	114.50	Per M ²
		Darbhanga	114.50	Per M ²
		Bhagalpur	114.30	Per M ²
		Munger	114.30	Per M ²
		Saharsa	114.50	Per M ²
		Purnea	114.50	Per M ²
		Gaya	113.70	Per M ²
		Saran	114.30	Per M ²
5.5.12	Providing cement flush pointing (1:3) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	86.10	Per M ²
		Patna	86.10	Per M ²
		Muzaffarpur	86.10	Per M ²
		Darbhanga	86.10	Per M ²

		Bhagalpur	85.80	Per M ²
		Munger	85.80	Per M ²
		Saharsa	86.10	Per M ²
		Purnea	86.10	Per M ²
		Gaya	85.30	Per M ²
		Saran	85.80	Per M ²
5.5.13	Providing cement truck pointing (1:3) on Brick work with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	127.00	Per M ²
		Patna	127.00	Per M ²
		Muzaffarpur	127.00	Per M ²
		Darbhanga	127.00	Per M ²
		Bhagalpur	126.70	Per M ²
		Munger	126.70	Per M ²
		Saharsa	127.00	Per M ²
		Purnea	127.00	Per M ²
		Gaya	125.80	Per M ²
		Saran	126.70	Per M ²
5.5.14	Providing cement truck pointing (1:3) on stone masonry with approved quality sand of requisite F.M , washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.			
		Patna Urban	166.60	Per M ²
		Patna	166.60	Per M ²
		Muzaffarpur	166.60	Per M ²
		Darbhanga	166.60	Per M ²
		Bhagalpur	166.00	Per M ²
		Munger	166.00	Per M ²
		Saharsa	166.60	Per M ²
		Purnea	166.60	Per M ²
		Gaya	164.70	Per M ²
		Saran	166.00	Per M ²

5.5. PLASTER WORK

Sl.No.	Description	Quantity	Unit	Rate	Amount	
5.5.1	Providing 12 mm thick cement plaster (1:3) with approved quality of sand of requisite F.M, washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.043	cum	8912.00	383.22	
	Sand	0.129	cum	145.10	18.72	
	Labour					
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	1.5	nos	206.00	309.00	
	Bhisti	0.5	nos	207.00	103.50	
					1063.43	
	Add Overhead charge & C.P@15%				159.52	
					1222.95	
	Add 1% Cess				12.23	
					1235.18	132.81
		Say Rs		132.80	Per M ²	
5.5.2	Providing 12 mm thick cement plaster (1: 4) with approved quality sand of requisite F.M . washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.034	cum	8912.00	303.01	
	Sand	0.136	cum	145.10	19.73	
	Labour					
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	1.5	nos	206.00	309.00	
	Bhisti	0.5	nos	207.00	103.50	
					984.24	
	Add Overhead charge & C.P@15%				147.64	
					1131.88	
	Add 1% Cess				11.32	
					1143.20	122.92
		Say Rs		122.90	Per M ²	
5.5.3	Providing 12 mm thick cement plaster (1: 5) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					

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Taking Out put =9.30 Sqm					
Materials					
Cement	0.028	cum	8912.00	249.54	
Sand	0.140	cum	145.10	20.31	
Labour					
Mason Gr II	1	nos	249.00	249.00	
Unskilled mazdoor	1.5	nos	206.00	309.00	
Bhisti	0.5	nos	207.00	103.50	
				931.35	
Add Overhead charge & C.P@15%				139.70	
				1071.05	
Add 1% Cess				10.71	
				1081.76	116.32
			Say Rs	116.30	Per M ²
5.5.4	Providing 25 mm thick cement plaster (1: 3) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever required and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.				
Unit :-Per Sqm					
Taking Out put =9.30 Sqm					
Materials					
Cement	0.085	cum	8912.00	757.52	
Sand	0.250	cum	145.10	36.28	
Labour					
Mason Gr II	1.5	nos	249.00	373.50	
Unskilled mazdoor	2.5	nos	206.00	515.00	
Bhisti	0.5	nos	207.00	103.50	
				1785.80	
Add Overhead charge & C.P@15%				267.87	
				2053.66	
Add 1% Cess				20.54	
				2074.20	223.03
			Say Rs	223.00	Per M ²
5.5.5	Providing 25 mm thick cement plaster (1: 4) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever and its removal, royalty and all taxes etc.				
Unit :-Per Sqm					
Taking Out put =9.30 Sqm					
Materials					
Cement	0.068	cum	8912.00	606.02	
Sand	0.272	cum	145.10	39.47	
Labour					
Mason Gr II	1.5	nos	249.00	373.50	
Unskilled mazdoor	2.5	nos	206.00	515.00	
Bhisti	0.5	nos	207.00	103.50	
				1637.48	
Add Overhead charge & C.P@15%				245.62	
				1883.11	
Add 1% Cess				18.83	
				1901.94	204.51
			Say Rs	204.50	Per M ²

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5.5.6	Providing 25 mm thick cement plaster (1: 5) with approved quality sand of requisite F.M . Washed and screened including curing, scaffolding wherever and its removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.056	cum	8912.00	499.07	
	Sand	0.200	cum	145.10	29.02	
	Labour					
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	2.5	nos	206.00	515.00	
	Bhisti	0.5	nos	207.00	103.50	
					1520.09	
	Add Overhead charge & C.P@15%				228.01	
					1748.11	
	Add 1% Cess				17.48	
					1765.59	189.85
		Say Rs		189.80	Per M ²	
5.5.7	Providing 12 mm thick water proof cement plaster (1:3) with approved quality sand of requisite F.M., washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.043	cum	8912.00	383.22	
	Sand	0.129	cum	145.10	18.72	
	Cost of water proofing compound (Cico)	2.4	Kg	33.30	79.92	
	Labour					
	Mason Gr II	1	nos	249.00	249	
	Unskilled mazdoor	1.5	nos	206.00	309	
	Bhisti	0.5	nos	207.00	103.5	
					1143.35	
	Add Overhead charge & C.P@15%				171.50	
					1314.86	
	Add 1% Cess				13.15	
					1328.01	142.80
		Say Rs		142.80	Per M ²	
5.5.8	Providing 25 mm thick water proof cement plaster (1:3) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					

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	Cement	0.085	cum	8912.00	757.52	
	Sand	0.250	cum	145.10	36.28	
	Cost of water proofing compound (Cico)	4.8	Kg	33.30	159.84	
	Labour					
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	2.5	nos	206.00	515.00	
	Bhisti	0.5	nos	207.00	103.50	
					1945.64	
	Add Overhead charge & C.P@15%				291.85	
					2237.48	
	Add 1% Cess				22.37	
					2259.86	243.00
		Say Rs		243.00	Per M ²	
5.5.9	Providing 25 mm thick water proof cement plaster (1:4) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.068	cum	8912.00	606.02	
	Sand	0.272	cum	145.10	39.47	
	Cost of water proofing compound (Cico)	4.8	Kg	33.30	159.84	
	Labour					
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	2.5	nos	206.00	515.00	
	Bhisti	0.5	nos	207.00	103.50	
					1797.32	
	Add Overhead charge & C.P@15%				269.60	
					2066.92	
	Add 1% Cess				20.67	
					2087.59	224.47
		Say Rs		224.50	Per M ²	
5.5.10	Providing 1.5 mm thick cement punning including curing, , royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.014	cum	8912.00	124.77	
	Labour					
	Head Mason	0.0625	nos	279.00	17.44	
	Mason Gr II	0.5	nos	249.00	124.50	
	Unskilled mazdoor	0.25	nos	206.00	51.50	
					318.21	
	Add Overhead charge & C.P@15%				47.73	
					365.94	
	Add 1% Cess				3.66	
					369.60	39.74
		Say Rs		39.70	Per M ²	

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5.5.11	Providing cement ruled pointing (1:3) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.014	cum	8912.00	124.77	
	Sand	0.042	cum	145.10	6.09	
	Labour					
	Mason Gr II	1.5	nos	249.00	373.50	
	Unskilled mazdoor	1.5	nos	206.00	309.00	
	Bhisti	0.5	nos	207.00	103.50	
					916.86	
	Add Overhead charge & C.P@15%				137.53	
					1054.39	
	Add 1% Cess				10.54	
					1064.94	114.51
		Say Rs		114.50	Per M ²	
5.5.12	Providing cement flush pointing (1:3) with approved quality sand of requisite F.M . Washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.014	cum	8912.00	124.77	
	Sand	0.042	cum	145.10	6.09	
	Labour					
	Mason Gr II	1	nos	249.00	249.00	
	Unskilled mazdoor	1	nos	206.00	206.00	
	Bhisti	0.5	nos	207.00	103.50	
					689.36	
	Add Overhead charge & C.P@15%				103.40	
					792.77	
	Add 1% Cess				7.93	
					800.69	86.10
		Say Rs		86.10	Per M ²	
5.5.13	Providing cement truck pointing (1:3) on Brick work with approved quality sand of requisite F.M washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.					
	Unit :-Per Sqm					
	Taking Out put =9.30 Sqm					
	Materials					
	Cement	0.021	cum	8912.00	187.15	
	Sand	0.063	cum	145.10	9.14	

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


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Labour					
	Head Mason	0.125	nos	279.00	34.88
	Mason Gr II	1.5	nos	249.00	373.50
	Unskilled mazdoor	1.5	nos	206.00	309.00
	Bhisti	0.5	nos	207.00	103.50
					1017.17
	Add Overhead charge & C.P@15%				152.58
					1169.74
	Add 1% Cess				11.70
					1181.44
					127.04
		Say Rs		127.00	Per M ²
5.5.14	Providing cement truck pointing (1:3) on stone masonry with approved quality sand of requisite F.M, washed and screened and stander water proofing compound including curing, scaffolding wherever required and their removal, royalty and all taxes etc. complete job as per specification and direction of E / I.				
	Unit :-Per Sqm				
	Taking Out put =9.30 Sqm				
Materials					
	Cement	0.032	cum	8912.00	285.18
	Sand	0.096	cum	145.10	13.93
Labour					
	Mason Gr II	2.5	nos	249.00	622.50
	Unskilled mazdoor	1.5	nos	206.00	309.00
	Bhisti	0.5	nos	207.00	103.50
					1334.11
	Add Overhead charge & C.P@15%				200.12
					1534.23
	Add 1% Cess				15.34
					1549.57
					166.62
		Say Rs		166.60	Per M ²

5.6 HUME PIPE LAYING

Sr.No.	Item	Rate	Unit
5.6.1	Labour for laying, fitting and fixing NP ₂ pipe with collars in line level and grade as well providing approved jointing materials and joints properly filled to make them water proof all complete as per specification and direction of E / I.		
5.6.1.1	150 mm dia NP₂ H.P		
	Patna Urban	127.90	Per M
	Patna	127.90	Per M
	Muzaffarpur	127.90	Per M
	Darbhanga	127.90	Per M
	Bhagalpur	127.70	Per M
	Munger	127.70	Per M
	Saharsa	127.90	Per M
	Purnea	127.90	Per M
	Gaya	127.20	Per M
	Saran	127.70	Per M
5.6.1.2	225 mm dia NP₂ H.P		
	Patna Urban	196.10	Per M
	Patna	196.10	Per M
	Muzaffarpur	196.10	Per M
	Darbhanga	196.10	Per M
	Bhagalpur	195.80	Per M
	Munger	195.80	Per M
	Saharsa	196.10	Per M
	Purnea	196.10	Per M
	Gaya	195.20	Per M
	Saran	195.80	Per M
5.6.1.3	300 mm dia NP₂ H.P		
	Patna Urban	232.00	Per M
	Patna	232.00	Per M
	Muzaffarpur	232.00	Per M
	Darbhanga	232.00	Per M
	Bhagalpur	231.60	Per M
	Munger	231.60	Per M
	Saharsa	232.00	Per M
	Purnea	232.00	Per M
	Gaya	230.70	Per M
	Saran	231.60	Per M
5.6.1.4	450 mm dia NP₂ H.P		
	Patna Urban	361.90	Per M
	Patna	361.90	Per M
	Muzaffarpur	361.90	Per M
	Darbhanga	361.90	Per M
	Bhagalpur	361.20	Per M
	Munger	361.20	Per M
	Saharsa	361.90	Per M
	Purnea	361.90	Per M
	Gaya	359.50	Per M
	Saran	361.20	Per M
5.6.1.5	600 mm dia NP₂ H.P		
	Patna Urban	447.70	Per M
	Patna	447.70	Per M
	Muzaffarpur	447.70	Per M
	Darbhanga	447.70	Per M
	Bhagalpur	447.00	Per M
	Munger	447.00	Per M

Sr.No.	Item	Rate	Unit
	Saharsa	447.70	Per M
	Purnea	447.70	Per M
	Gaya	445.20	Per M
	Saran	447.00	Per M
5.6.1.6	700 mm or 800 mm dia NP₂ H.P		
	Patna Urban	491.80	Per M
	Patna	491.80	Per M
	Muzaffarpur	491.80	Per M
	Darbhanga	491.80	Per M
	Bhagalpur	490.90	Per M
	Munger	490.90	Per M
	Saharsa	491.80	Per M
	Purnea	491.80	Per M
	Gaya	488.90	Per M
	Saran	490.90	Per M
5.6.1.7	900 mm dia or 1000 mm dia NP₂ H.P		
	Patna Urban	593.70	Per M
	Patna	593.70	Per M
	Muzaffarpur	593.70	Per M
	Darbhanga	593.70	Per M
	Bhagalpur	592.70	Per M
	Munger	592.70	Per M
	Saharsa	593.70	Per M
	Purnea	593.70	Per M
	Gaya	590.40	Per M
	Saran	592.70	Per M
5.6.1.8	1200 mm dia NP₂ H.P		
	Patna Urban	780.20	Per M
	Patna	780.20	Per M
	Muzaffarpur	780.20	Per M
	Darbhanga	780.20	Per M
	Bhagalpur	778.90	Per M
	Munger	778.90	Per M
	Saharsa	780.20	Per M
	Purnea	780.20	Per M
	Gaya	776.00	Per M
	Saran	778.90	Per M
5.6.2	Labour for laying, fitting and fixing NP ₂ pipe with collars in line level and grade as well providing approved jointing materials and joints properly filled to make them water proof all complete as per specification and direction of E / I. (Hume pipe available within a lead of 40 M)		
5.6.2.1	450 mm dia NP₃ H.P		
	Patna Urban	361.90	Per M
	Patna	361.90	Per M
	Muzaffarpur	361.90	Per M
	Darbhanga	361.90	Per M
	Bhagalpur	361.20	Per M
	Munger	361.20	Per M
	Saharsa	361.90	Per M
	Purnea	361.90	Per M
	Gaya	359.80	Per M
	Saran	361.20	Per M
5.6.2.2	600 mm dia NP₃ H.P		
	Patna Urban	447.70	Per M
	Patna	447.70	Per M
	Muzaffarpur	447.70	Per M
	Darbhanga	447.70	Per M
	Bhagalpur	447.00	Per M
	Munger	447.00	Per M
	Saharsa	447.70	Per M

Sr.No.	Item	Rate	Unit
	Purnea	447.70	Per M
	Gaya	445.20	Per M
	Saran	447.00	Per M
5.6.2.3	700 mm or 800 mm dia NP₃ H.P		
	Patna Urban	619.40	Per M
	Patna	619.40	Per M
	Muzaffarpur	619.40	Per M
	Darbhanga	619.40	Per M
	Bhagalpur	618.50	Per M
	Munger	618.50	Per M
	Saharsa	619.40	Per M
	Purnea	619.40	Per M
	Gaya	616.50	Per M
	Saran	618.50	Per M
5.6.2.4	900 mm dia or 100 mm dia NP₃ H.P		
	Patna Urban	891.80	Per M
	Patna	891.80	Per M
	Muzaffarpur	891.80	Per M
	Darbhanga	891.80	Per M
	Bhagalpur	890.80	Per M
	Munger	890.80	Per M
	Saharsa	891.80	Per M
	Purnea	891.80	Per M
	Gaya	888.50	Per M
	Saran	890.80	Per M
5.6.2.5	1200 mm dia NP₂ H.P		
	Patna Urban	1074.90	Per M
	Patna	1074.90	Per M
	Muzaffarpur	1074.90	Per M
	Darbhanga	1074.90	Per M
	Bhagalpur	1073.60	Per M
	Munger	1073.60	Per M
	Saharsa	1074.90	Per M
	Purnea	1074.90	Per M
	Gaya	1070.70	Per M
	Saran	1073.60	Per M

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5.6 HUME PIPE LAYING

SI.No.	Description	quantity	Unit	Rate	Amount	Ref.
5.6.1	Labour for laying, fitting and fixing NP ₂ pipe with collars in line level and grade as well providing approved jointing materials and joints properly filled to make them water proof all complete as per specification and direction of E / I.					
5.6.1.1	150 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =8.0M					
	(Assuming 4 pipes of 2 M length and three collars)					
	Materials					
	Cement	0.011	cum	8912.00	98.03	
	Sand	0.011	cum	145.10	1.60	
	Jute	1.5	Kg	24.40	36.6	
	Labour					
	Head Mason	0.5	nos	279.00	139.50	
	Unskilled mazdoor	2.25	nos	206.00	463.50	
	Fitter Gr I	0.5	nos	284.00	142.00	
					881.23	
	Add Overhead charge & C.P@15%				132.18	
					1013.41	
	Add 1% Cess				10.13	
					1023.55	127.94
		Say	Rs	127.90	Per M	
5.6.1.2	225 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =8.0M					
	(Assuming 4 pipes of 2 M length and three collars)					
	Materials					
	Cement	0.014	cum	8912.00	124.77	
	Sand	0.014	cum	145.10	2.03	
	Jute	2	Kg	24.40	48.80	
	Labour					
	Head Mason	0.75	nos	279.00	209.25	
	Unskilled mazdoor	4	nos	206.00	824.00	
	Fitter Gr I	0.5	nos	284.00	142.00	
					1350.85	
	Add Overhead charge & C.P@15%				202.63	
					1553.48	
	Add 1% Cess				15.53	
					1569.01	196.13
		Say	Rs	196.10	Per M	
5.6.1.3	300 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =10.0M					
	(Assuming 4 pipes of 2.5 mtr length and three collars)					
	Materials					
	Cement	0.023	cum	8912.00	204.98	

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	Sand	0.023	cum	145.10	3.34	
	Jute	2.5	Kg	24.40	61.00	
	Labour					
	Head Mason	1	nos	279.00	279.00	
	Unskilled mazdoor	6	nos	206.00	1236.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					1997.31	
	Add Overhead charge & C.P@15%				299.60	
					2296.91	
	Add 1% Cess				22.97	
					2319.88	231.99
		Say	Rs	232.00	Per M	
5.6.1.4	450 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.028	cum	8912.00	249.54	
	Sand	0.028	cum	145.10	4.06	
	Jute	3.25	Kg	24.40	79.30	
	Labour					
	Head Mason	1.25	nos	279.00	348.75	
	Unskilled mazdoor	7	nos	206.00	1442.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					2336.65	
	Add Overhead charge & C.P@15%				350.50	
					2687.15	
	Add 1% Cess				26.87	
					2714.02	361.87
		Say	Rs	361.90	Per M	
5.6.1.5	600 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.034	cum	8912.00	303.01	
	Sand	0.034	cum	145.10	4.93	
	Jute	4	Kg	24.40	97.60	
	Labour					
	Head Mason	1.5	nos	279.00	418.50	
	Unskilled mazdoor	9	nos	206.00	1854.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					2891.04	
	Add Overhead charge & C.P@15%				433.66	
					3324.70	
	Add 1% Cess				33.25	
					3357.94	447.73
		Say	Rs	447.70	Per M	
5.6.1.6	700 mm or 800 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					

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	Cement	0.040	cum	8912.00	356.48	
	Sand	0.040	cum	145.10	5.80	
	Jute	5	Kg	24.40	122.00	
	Labour					
	Head Mason	1.5	nos	279.00	418.50	
	Unskilled mazdoor	10	nos	206.00	2060.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					3175.78	
	Add Overhead charge & C.P@15%				476.37	
					3652.15	
	Add 1% Cess				36.52	
					3688.67	491.82
		Say	Rs	491.80	Per M	
5.6.1.7	900 mm dia or 1000 mm dia NP2 H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.045	cum	8912.00	401.04	
	Sand	0.045	cum	145.10	6.53	
	Jute	7.5	Kg	24.40	183.00	
	Labour					
	Head Mason	2	nos	279.00	558.00	
	Unskilled mazdoor	12	nos	206.00	2472.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					3833.57	
	Add Overhead charge & C.P@15%				575.04	
					4408.60	
	Add 1% Cess				44.09	
					4452.69	593.69
		Say	Rs.	593.70	Per M	
5.6.1.8	1200 mm dia NP₂ H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.057	cum	8912.00	507.98	
	Sand	0.057	cum	145.10	8.27	
	Jute	10	Kg	24.40	244.00	
	Labour					
	Head Mason	2.5	nos	279.00	697.50	
	Unskilled mazdoor	16	nos	206.00	3296.00	
	Fitter Gr I	1	nos	284.00	284.00	
					5037.75	
	Add Overhead charge & C.P@15%				755.66	
					5793.42	
	Add 1% Cess				57.93	
					5851.35	780.18
		Say	Rs	780.20	Per M	






5.6.2	Labour for laying, fitting and fixing NP ₃ pipe with collars in line level and grade as well providing approved jointing materials and joints properly filled to make them water proof all complete as per specification and direction of E / I. (Hume pipe available within a lead of 40 mtr)					
5.6.2.1	450 mm dia NP₃ H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.028	cum	8912.00	249.54	
	Sand	0.028	cum	145.10	4.06	
	Jute	3.25	Kg	24.40	79.30	
	Labour					
	Head Mason	1.25	nos	279.00	348.75	
	Unskilled mazdoor	7	nos	206.00	1442.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					2336.65	
	Add Overhead charge & C.P@15%				350.50	
					2687.15	
	Add 1% Cess				26.87	
					2714.02	361.87
		Say	Rs	361.90	Per M	
5.6.2.2	600 mm dia NP₃ H.P					
	Unit :-Per M					
	Taking Out put =7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.034	cum	8912.00	303.01	
	Sand	0.034	cum	145.10	4.93	
	Jute	4	Kg	24.40	97.60	
	Labour					
	Head Mason	1.5	nos	279.00	418.50	
	Unskilled mazdoor	9	nos	206.00	1854.00	
	Fitter Gr I	0.75	nos	284.00	213.00	
					2891.04	
	Add Overhead charge & C.P@15%				433.66	
					3324.70	
	Add 1% Cess				33.25	
					3357.94	447.73
		Say	Rs	447.70	Per M	
5.6.2.3	700 mm or 800 mm dia NP₃ H.P					
	Unit :-Per M					
	Taking Out put=7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.040	cum	8912.00	356.48	
	Sand	0.040	cum	145.10	5.80	
	Jute	5	Kg	24.40	122.00	
	Labour					
	Head Mason	1.5	nos	279.00	418.50	
	Unskilled mazdoor	14	nos	206.00	2884.00	






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	Fitter Gr I	0.75	nos	284.00	213.00	
					3999.78	
	Add Overhead charge & C.P@15%				599.97	
					4599.75	
	Add 1% Cess				46.00	
					4645.75	619.43
		Say	Rs	619.40	Per M	
5.6.2.4	900 mm dia or 1000 mm dia NP ₃ H.P					
	Unit :-Per M					
	Taking Out put=7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.045	cum	8912.00	401.04	
	Sand	0.045	cum	145.10	6.53	
	Jute	7.5	Kg	24.40	183.00	
	Labour					
	Head Mason	2	nos	279.00	558.00	
	Unskilled mazdoor	21	nos	206.00	4326.00	
	Fitter Gr I	1	nos	284.00	284.00	
					5758.57	
	Add Overhead charge & C.P@15%				863.79	
					6622.35	
	Add 1% Cess				66.22	
					6688.58	891.81
		Say	Rs	891.80	Per M	
5.6.2.5	1200 mm dia NP ₂ H.P					
	Unit :-Per M					
	Taking Out put=7.5 M					
	(Assuming 3 pipes of 2.5 mtr length and 2 collars)					
	Materials					
	Cement	0.057	cum	8912.00	507.98	
	Sand	0.057	cum	145.10	8.27	
	Jute	12	Kg	24.40	292.80	
	Labour					
	Head Mason	2.5	nos	279.00	697.50	
	Unskilled mazdoor	25	nos	206.00	5150.00	
	Fitter Gr I	1	nos	284.00	284.00	
					6940.55	
	Add Overhead charge & C.P@15%				1041.08	
					7981.64	
	Add 1% Cess				79.82	
					8061.45	1074.86
		Say	Rs	1074.90	Per M	

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Sr.No.	Item	Rate	Unit
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5.7 PITCHING AND PILING

Sr.No.	Item	Rate	Unit
5.7.1	Labour for making 150 mm to 200 mm dia Sal ballah piles including cutting to size and dressing, making shoes for driving etc.all complete as per specification and direction of E / I.	14.50	Per pile
5.7.2	Providing two coats of coal tar painting over 150 mm to 200 mm dia Sal ballah piles and labour for driving it below ground level upto 5 meter including cost of all tools and plants required for the job all complete as per specification and direction of E / I.	162.50	Per M
5.7.3	Labour for fitting and fixing 100 mm to 150 mm dia sal ballah cross pieces 1350 mm length in position with 16 mm dia bolts, nuts and washers at each joints including the cost of bolts nuts and washers complete job as per specification and direction of E / I.	85.80	Per M
5.7.4	Labour for fitting and fixing 150 mm dia sal ballah in position as back stay with 16 mm dia bolts, nuts and washers at each joints including the cost of bolts nuts and washers complete job as per specification and direction of E / I.	38.80	Per M
5.7.5	Labour for fitting and fixing 100 mm to 150 mm dia sal ballah walling pieces with 16 mm dia bolts, nuts and washers at each joints including the cost of bolts nuts and washers complete job as per specification and direction of E / I.	55.60	Per M
5.7.6	Labour for fitting and fixing 150 mm to 200 mm dia sal ballah piles with two nos 16 mm dia 225 mm long nuts and washers including the cost of bolts nuts and washers complete job as per specification and direction of E / I.	111.50	Per M
5.7.7	Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E / I.	22.00	Per M
5.7.8	Labour for fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E / I.	58.80	Per M ²
5.7.9	Labour for fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction o E / I.	4.40	Per M
5.7.10	Providing two coats of coal tar painting over 150 mm to 200 mm dia Sal ballah piles and labour for driving it below ground level in running water upto complete job as per specification and direction of E / I.	364.00	Per M
5.7.11	Labour for fitting and fixing 75 mm dia sal ballah runners on sal ballah verticals including cost of nails or spikes for fixing the same complete job as per specification and direction of E / I.	17.90	Per M
5.7.12	Labour for fitting and fixing 75 mm but upto 150 mm dia sal ballah runners on sal ballah verticals including cost of nails or spikes for fixing the same complete job as per specification and direction of E / I.	27.10	Per M
5.7.13	Labour for laying fine filter (Sand) or coarse dry graded filter either of jhama khoa or stone metal or stone chips under brick pitching or boulder pitching in slope and apron including light ramming etc.all complete job as per specification and direction of E / I.	253.50	Per M ³
5.7.13(b)	Labour for laying River bed Material (70 % 40 mm to 20 mm size and 30 % Less than 20 mm and Sand) including light ramming etc.all complete job as per specification and direction of E / I.	179.50	Per M ³
5.7.14	Providing brick flat soling with designation 100A bricks joints filled with coarse sand of approved quality including royalty and all taxes, all complete as per approved design, specifications and direction of E/I		
	Patna Urban	308.90	Per M ²

Sr.No.	Item	Rate	Unit
	Patna	264.40	Per M ²
	Muzaffarpur	267.40	Per M ²
	Darbhanga	267.40	Per M ²
	Bhagalpur	267.40	Per M ²
	Munger	267.40	Per M ²
	Saharsa	273.50	Per M ²
	Purnea	285.70	Per M ²
	Gaya	255.30	Per M ²
	Saran	255.30	Per M ²
5.7.15	Providing brick on edge soling with designation 100A bricks joints filled with coarse sand of approved quality including royalty and all taxes, all complete as per approved design, specifications and direction of E/I		
	Patna Urban	498.30	Per M ²
	Patna	424.20	Per M ²
	Muzaffarpur	429.20	Per M ²
	Darbhanga	429.20	Per M ²
	Bhagalpur	429.20	Per M ²
	Munger	429.20	Per M ²
	Saharsa	439.40	Per M ²
	Purnea	459.60	Per M ²
	Gaya	409.10	Per M ²
	Saran	409.10	Per M ²
5.7.16	Providing pitching work with designation 100A bricks in panel and in herring bond pattern one brick on edge over a brick flat soling joints filled with local sand free from clay contents including royalty and all taxes, all complete as per approved design, specifications and direction of E/I		
	Patna Urban	807.20	Per M ²
	Patna	688.70	Per M ²
	Muzaffarpur	696.70	Per M ²
	Darbhanga	696.70	Per M ²
	Bhagalpur	696.70	Per M ²
	Munger	696.70	Per M ²
	Saharsa	712.90	Per M ²
	Purnea	745.30	Per M ²
	Gaya	664.40	Per M ²
	Saran	664.40	Per M ²
5.7.17	Providing pitching work with designation 100A bricks in panel two brick on edge over a brick flat soling joints filled with local sand free from clay contents including royalty and all taxes, all complete as per approved design, specifications and direction of E/I		
	Patna Urban	1336.70	Per M ²
	Patna	1144.10	Per M ²
	Muzaffarpur	1157.10	Per M ²
	Darbhanga	1157.10	Per M ²
	Bhagalpur	1157.10	Per M ²
	Munger	1157.10	Per M ²
	Saharsa	1183.40	Per M ²
	Purnea	1236.20	Per M ²
	Gaya	1104.60	Per M ²
	Saran	1104.60	Per M ²
5.7.18.1	Labour charge for pitching work on apron slope of bank with stone boulder duly packed (Uncreated complete job) materials within 150 m lead with all lifts. all complete as per approved design, specifications and direction of E/I	608.20	Per M ³

Sr.No.	Item	Rate	Unit
5.7.18.2	Labour charge for pitching work on apron slope of bank with stone boulder duly packed (Uncreated complete job) materials within 50 m lead with all lifts, all complete as per approved design, specifications and direction of E/I	270.30	Per M ³
5.7.19	Labour charge for stone boulder (uncreated) laying in launching apron and slope (materials within 150 m lead all lifts), all complete as per approved design, specifications and direction of E/I	1192.80	Per M ³
5.7.20	Labour charge for pitching with jhama bricks closely packed over apron and including preparation of base, making proper slope and grade etc.all complete (materials within 150 m lead with all lifts) as per approved design, specifications and direction of E/I	558.00	Per M ³
5.7.21.1	Labour charge for pitching above water on apron and slope of bank with boulder in crates of specified size (material within 150 mtr lead and all lifts) including boxing and tying the crates with 12 to 14 gauge G.I wire including cost of G.I wire all complete as per approved design, specifications and direction of E/I	739.80	Per M ³
5.7.21.2	Labour charge for pitching above water in apron and slope of bank with boulder in crates of specified size (material within 50 M lead and all lifts) including boxing and tying the crates with 12 to 14 gauge G.I wire including cost of G.I wire all complete as per approved design, specifications and direction of E/I	359.60	Per M ³
5.7.22	Labour charge for pitching under water in apron and slope of bank with boulder in crates of specified size (material within 150 M lead and all lifts) including boxing and tying the crates with 12 to 14 gauge G.I wire including cost of G.I wire all complete as per approved design, specifications and direction of E/I	2038.20	Per M ³
5.7.23	Labour charge for pitching under water in apron and slope with rubble having 600 mm to 300 mm size with all leads and lifts complete as per approved design, specifications and direction of E/I	833.60	Per M ³
5.7.24.1	Labour charge for pitching above water in apron and slope of bank with bricks packed in crates of specified size (material within 150 mtr lead and all lifts) including boxing and tying the crates with 12 to 14 gauge G.I wire including cost of G.I wire all complete as per approved design, specifications and direction of E/I	712.60	Per M ³
5.7.24.2	Labour charge for pitching above water in apron and slope of bank with bricks packed in crates of specified size (material within 50 mtr lead and all lifts) including boxing and tying the crates with 12 to 14 gauge G.I wire including cost of G.I wire all complete as per approved design, specifications and direction of E/I	332.40	Per M ³
5.7.24.3	Extra for each lead of 30 M over the initial lead of 50 M (Boulder or Brick) as per approved design, specifications and direction of E/I	95.00	Per M ³
5.7.25	Labour charge for pitching under water in apron and slope of bank with bricks packed in crates of specified size (material within 150 mtr lead and all lifts) including boxing and tying the crates with 12 to 14 gauge G.I wire including cost of G.I wire all complete as per approved design, specifications and direction of E/I	2080.40	Per M ³
5.7.26	Providing brick block in designation 100 A bricks of size 600 x 600 x 300 mm for pitching in cement mortar (1:3) with approved quality of sand of requisite F.M. over 150 mm dry khoa rammed to make the inter spaces closer, keeping the thickness intact including royalty and all taxes complete job as per approved design, specifications and direction of E/I		
	Patna Urban	2224.40	Per M ²
	Patna	2145.50	Per M ²
	Muzaffarpur	1993.40	Per M ²
	Darbhanga	1873.50	Per M ²
	Bhagalpur	1988.20	Per M ²
	Munger	1988.20	Per M ²