

PROPOSED ESTIMATE OF COVER CONCRETE DRAIN (HIGH)

The rates are taken from PWD(WB) schedule of rate for road & bridge works 1.12.15 & 11 th,12th ,13th,14th . Addenda & Corrigenda to the Pwd (WB) ,building works of Midnapore west effect from 01.11.2017 .										
Length (m)=			100	Breath(Top)=0.6M			Height=0.75m			
Sl. No.	Page No & It No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	278,12.01	Earthwork in excavation for foundation of structures as per drawing and technical specification including setting out, removing, spreading or stacking of spoils within a lead of 150 m. as directed and including trimming the sides of the trenches, leveling, dressing and ramming the bottom, complete as per direction of the Engineer-in-Charge in all sorts of soil excluding marshy soil & rocks (soft or hard) by manual means.								
		Depth up to 3 m. :	1.00	100.00	1.70	1.00	170.000	m ³		
		Without pumping out water and including with shoring.								
		Total					170.000	m ³	114.00	19380.00
2	279,12.02	Earthwork in filling in foundation trenches with good earth in layers not exceeding 15cm. including watering and ramming layer by layer complete with earth obtained from excavation of foundation or from fresh excavation of land arranged by Department within a lead of 150 m								
		Total					34.000	m ³	92.00	3128.00
3	Rate Analysis Attached	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity) Rate analysis attached								
			1.00	100.00	1.70	0.15	25.500	m ³		
		Total					25.500	m ³	515.22	13138.00
4	PWD B.S. (P-47) It no-3	Supplying and laying Polythene Sheet (150 gm/sq.m.) over damp proof course or below flooring of roof terracing or in foundation or in foundation trenches.								
			1.00	100.00	1.70		170.000	m ²		
		Total					170.000	m ²	24.00	4080.00

Sl. No.	Page No & It No	Description	No.	L. (m.)	B. (m.)	H. (m.)	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	
5	Rate Analysis Attached	Plain / Reinforced Cement Concrete in Substructure with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality, cement and water reducing admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete as per drawing and technical specifications.M20									
		Bed	1.00	100.00	1.70	0.10	17.000	m3			
			2.00	100.00	0.25	0.75	37.500	m3			
		2x100x(1/2)x.125x.75	2.00	100.00	0.06	0.75	9.375	m3			
		For RCC Slab	1.00	100.00	1.70	0.10	17.000	m3			
		Total					80.875	m3	6287.17	508474.00	
6	(Rate analysis attached)	Supplying, fitting and placing HYSD bar reinforcement in Sub-structure including initial straightening, straightening of coils bars, removal of loose rust (if any), cutting to requisite length bending, binding with annealed wire not less than 1 mm in size and conforming to IS 280 at every intersection hooked and bent to correct shape and placed on forms etc.including cost of black annealed wire and cost of loading, unloading, carriage of all steel materials complete as per drawing and technical specifications and direction of Engineer-in-charge.									
		Tor Steel /H.Y.S.D. Bars. Rates as per P.W.D Building schedule									
		(1.2% of Concrete Volume)	Total					1.601	MT	56637.4	90699.00
7	P-192 It no-15 B.S.	Net cementing punning on cement plaster surface.	1.00	100.00	3.17		317.000	m2			
		Total					317.000	m2	34.00	10778.00	
TOTAL COST (A) Rs.										649677.00	
Add GST(6% CGST+6% SGST)On SI No A)B@12.0% Rs.										77961.00	
Cost of Civi works excluding labour welfare cess Total (C=A+B)Rs.										727638.00	
Labour welfare cess (on SI.no C)@1.0%D Rs.										7276.00	
Cost of Civi works including labour welfare cess amount (E=C+D) Rs.										734914.00	
Add Contingency (on SI.no C) @3.0% Rs.										21829.00	
TOTAL ESTIMATED COST Rs.										756743.00	
TOTAL ESTIMATED COST Rs.(IN WORD)-SIX LAKH FIFTY SIX THOUSAND SEVEN HUNDRED FOURTY THREE ONLY											

Note: B.S. = PWD Schedule Rates for Building Works.

Rate Analysis of Steel			
FORMAT-E			
Schedule of Rates Road and Bridge Works (P-218)			
1	Rate of Item as per relevent section (P-297/It-13.02)11th corrigendum(P-13)	Rs	3308.00
2	Add: Cost of Steel = Quantity of Steel(1.05) x Basic Price of Steel (vide Item no. 2, Column –5, Table I – 1 of the Schedule of Rates). P-215,It no-2(ii) New,11th Corrigendum	Rs	45937.50
3	Add: Cost of Carriage including necessary loading - unloading from nearest Company Outlets /Stack yard/Godown to the site of execution (excluding Overhead Charges & Contractor's Profit) = (Cost of Carriage including loading – unloading charges) / 1.15	Rs	235.11
	Loading & Unloading 96 x @ 0.75 =72.00	P-225,It-1.03(h)	75.60
	Add cost of carriage 150 KM from kolkata	P-227,It-5	
	0-5 KM=82	Rs	86.10
	5-10KM (7.30x5)=36.50	Rs	38.33
	10-20KM (6.70x10)=67.00		70.35
	20-50KM (6.30x30)		0.00
	50-100KM (5.60x50)		0.00
	100-150KM (5.30x50)		0.00
	Construction wing should add cost & carriage of 1.05 MT (considering 5% wastage) of steel materials to arrive at the final consolidated item rate. (P-297,Note)		
	TOTAL = Rs		270.38
4	Add: Overhead Charges @ 5% /15% /20% of (2+3) as the case may be (vide Sl. 3 of PREMBLE).	Rs	2308.63
5	Add: Contractor's Profit @ 10% of (2+3+4)	Rs	4848.12
TOTAL (RS)			Rs 56637.36

Rate Aaysis of Cocrete													
(Format C)													
1st Corrigendum& Addenda to PWD (WB), SOR: 2015-16 Road & Bridge Works, P-1, Case-II													
				Cement Concrete									
Gradation of Stone Metal(Graded Aggregates)			20mm		10mm								
Cost of material from Pakur(Medinipur) P-222,11th Corrigenda,P-7			1700.00		1569.00								
L+U(P-224,1.03(c))		57.75		337.25		337.25		L+U+S		77.00	L=40%		
		Upto 20KM						L+U		57.75	U=35%		
P-227,It-3								S		19.25	S=25%		
Upto 5km		124.00						L=Loading					
5-10km		10.90X5						U=Unloading					
10-20km		10.10X10						S=Stacking					
20-50km		9.50X00											
50-100		8.40X50											
100-150		7.90X50											
		337.25						2037.25		1906.25			
				Cement Concrete									
Cost of 20 mm stone chips			0.9 cum		0.54		2037.25		1100.12				
Cost of 10 mm stone chips			0.9 cum		0.36		1906.25		686.25				
P-208,Table No-3.2													
Cost of Cement(PPC/PSC/OPC43) P-215,11th Corrigenda & Addenda,P-1			(5717/1000)x400				2286.80						
								2214.00					
Plain / Reinforced Cement Concrete in Substructure with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality, cement and water reducing admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete as per drawing and technical specifications.(P-295,It no-13.01D(i)j 11th Corrigendum P-13)				Total		6287.17		400kg Cement for M20 Ggrade(For Estimation purpose)From durability consideration, the value of minimum cement content and maximum water cement ratio to be considered in the mix design shall be as per the direction of the Engineer-inCharge.(P-297,Note-2)					
RCC Grade M20													

Rate Analysis of Fine Sand						
(11th Corrigenda & Addenda to PWD (WB), SOR: 2015-16 Road & Bridge Works P-3, It-3)						
			Fine Sand			
Cost at Site		305	rs/cum	L+U+S	77.00	L = 40%
				L+U	57.75	U = 35%
		-19.25	rs/cum	S	19.25	S = 25%
		285.75	rs/cum	L=Loading		
				U=Unloading		
Compacting Factor (280,12.04,Note 2)		0.835		S=Stacking		
		342.22	rs/cum			
Labour Charges		173.00	rs/cum			
280,12.04 11th corrigendum						
	Total	515.22	rs/cum			