PROPOSED ESTIMATE FOR CONSTRUCTION OF CONCRETE ROAD

The rates are taken from PWD(WB) schedule of rate for Road & Bridge works 1.12.15 & 11 th, 12th 13th, 14th Addenda & Corrigenda and Building works of Midnapore west effect from 01.11.2017.

		Length =		100.00	m.		Width=		2.1 m.	
Sl. No	Page No & IT no	Description	No	L (m.)	B (m.)	H (m.)	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1		Box cutting or filling in Road en including spreading the spoils proor on berm to approximate grade camber and rolling the sub-grade camber and grade as per direction charge including uprooting and reand where necessary.	operly & with and emov	y over the fl power rolle satisfaction ing plants a	ank as ne er to prope n of Engin nd jungle	cessary er eer-in-		2		
		E. I.	1	100.00			180.000		14.40	2592.00
		For Lugs	2	100.00	0.150 otal		30.000 210.000		19.00	570.00 3162.00
2	S	Sand filling in foundation trenched wing-walls etc. with good local sat exceeding 15 cm. including inunction water and poking and ramming last supply of sand. Quality of sand is in-charge.	and for the state of the state	ree from ear g each layer by layer con e approved	rth in laye by profus plete incl	rs not se uding				
		For Lugs	2	100.00	0.150 otal	0.075	2.25 15.750		515.22	8115.00
3	PWD B. S.(P- 47) It no-03	Supplying & Laying Polytheness course or below flooring or roof foundation For Lugs	terra	acing or in t			180.00 30.00 210.00	m ²	24.00	5,040.00
4	Rate analysi s attache d	Providing and laying Design Mix concrete work in any part of bridg with coarse aggregates of appropriate aggregate (sand) conforming approved quality and cement, as and carriage of all materials and i mix, approval of the same by the quality control, sampling, testing cost of labour and materials for foworks.M20	ging) ling, oth of r, cost esign ost for iding			21.00	3,010.00			
		For Lugs	2	100.00 100.00	2.100 0.150	0.190				
		1 of Lugs	Ť		otal	3.200	45.900		5462.17	250713.00
5	322,18. 05(b)	Hire and labour charges for Shutt upto 4.0 m height using approved planks/ply wood/steel sheet plate kind of plain or reinforced concrestructure including culvert, box cinclusive of fitting, fixing and structure work as per specification and direction.								
	}	C' L CI	2	100.00		0.390	78.000		1	
		Side of Lugs		100.00		0.570	70.000			
		Inner side	2			0.200	1			

Sl. No	Page No & IT no	Description	No	L (m.)	B (m.)	H (m.)	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
•	11 110	Supplying and spreading moorum	(709	%) and sand	1 (30%) b	v		1		
6	Rate analysi s attache d	volume to the required thk. In lay the EIC stabilized the same by ad get OMC remixing in wet conditi the required compacted thickness								
		Both side	2	100.000	0.150	0.150	4.500	m ³	637.98	2,871.00
		Contraction Joint with Bitumin								
7		(L.S)	28					Nos	75	2,100.00
	TOTAL COST (A) Rs.									297253.00
							ST)On Sl No			35670.00
	Cost of Civi works excluding labour welfare cess Total (C=A+B)Rs.									332923.00
	Labour welfare cess (on Sl.no C)@1.0%D Rs.									3329.00
Cost of Civi works including labour welfare cess amount (E=C+D) Rs.								336252.00		
Add Contingency (on Sl.no C) @3.0% Rs.								9988.00		
TOTAL ESTIMATED COST Rs.										346240.00

		Ra	te Aaysis of C	Cocrete						
	1st Corrigand	lum& Addenda to PWD ((Format C	,	and & Dr	idaa Warks	D 1 C	ngo II		
Gr	adation of Stone Metal(Gr	ì		20mm	Jau & Di	10m		150-11		
	of material from Pakur(M Corrigenda,F	edinipur) P-222,11th	1′	700.00		1569.	00			
L+U(P-224	1,1.03(c))	57.75						L+U+S	77.00	L=40%
Ì		1					L+U	57.75	U=35%	
P-227,It-3								S	19.25	S=25%
Upto 5km		124.00						L=Loading	ŗ	
5-10km	10.90X5	54.50	3	37.25		337.2	25	U=Unload	ing	
10-20km	10.10X10	101.00						S=Stacking	g	
20-50km	9.50X05	0.00								
50-100	8.40X50									
100-150	7.90X50									
		337.25	20	037.25		1906.	25			
			Cement Concrete		·e					
					.c					
	mm stone chips		0.9	cum	0.6	0.54	2037.3	1100.12		
Cost of 10	mm stone chips		0.9	cum	0.4	0.36	1906.3	686.25		
P-208,Tabl	e No-3.2									
Cost of Co	ement(PPC/PSC/OPC43)	P-215,11th Corrigenda &							_	Cement
	Addenda,P-	-1	(5717/1000)x4			.00		2286.80		M20
									Ggrade(For	
								1389.00		nation
part of brid nominal siz both of app of all mater Engineer-in excluding c	and laying Design Mix cor ge (excluding bottom plug the and grading, fine aggreg troved quality and cement, tials and including prepara- therate and cost for qual toost of labour and material ag concrete mixer.(P=322,	concrete work in any sof appropriate oper grading zone, our, cost and carriage of the same by the g etc. all complete but ment works.M-20			5462.17	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- 323,Note-2)				

	Rate Aaysis of Fine S	Sand			
Cost at Site(Fine Sand)	305	rs/cum	L+U+S	77.00	L = 40%
(11th Corrigenda & Addenda to PW	D (WB), SOR: 2015-16				
Road & Bridge Works P-3, It-3)		L+U	57.75	U = 35%	
	-19.25	rs/cum	S	19.25	S = 25%
	285.75	rs/cum			
			L=Loadir	ıg	
Compacting Factor(280,12.04,Note 2	0.835		U=Unloading		
			S=Stacki	ng	
	342.22	rs/cum			
Labour Charges	173.00	rs/cum			
280,12.04 11th corrigendum					
Total	515.22	rs/cum			
·		•			
	Rate Aaysis of Moor	um			
Cost of Morrum at Quarry per cum (1					
Addenda to PWD (WB), SOR: 2015-	16 Road & BridgeWorks				
P-3, It-7)		117.00			
Carring charge from quarry to	work site = 10 km				
	124.00				
	54.50	178.50			
TOTAL = Rs					
Loading & Unlo					
62.00 x @ 0.	46.50				
52.30 A C 0.	342.00				
				11	
Moorum (P-3, Sl No 7)	0.7	1	510.45	Rs	357.31
Sand (P-3, Sl no-3)	0.3	1	342.22	Rs	102.66
Labour and other of		178.00			
				Rs	637.98