PROPOSED ESTIMATE FOR 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.

	and Building works of Midnapore west effect from 01.11.2017. Length = 100.00 m. Width= 3.00 m.										
Sl no	Page No & It No	Description	Nos	L (m.)	B (m.)	H (m.)	QTY	Unit	Rate	Amount	
1	237,3. 16(b)	Box cutting or filling in Road embankment in all sorts of soil including spreading the spoils properly over the flank as necessary or on berm to approximate grade & camber and rolling the sub-grade with power roller to proper camber and grade as per direction and satisfaction of Engineer-in-charge including uprooting and removing plants and jungles when and where necessary.									
		For Lugs	2	100.00	0.150		30.00	Sqm	19.00	570.00	
		For each additional Depth of 150mm and part thereof.		7	Γotal		30.00	Sqm			
		Water Bound Macadam Base Course.									
2	245,(iii	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregate, watering including lighting, guarding, barricading and making necessary earthen bundh of one metre width on each side and preparing the bed by necessary cutting or filling, including cost of all materials and hire and labour charges of all men and machinery and compacting to the required density, as per Clause 404 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).									
			1	100.00	2.700	0.075	20.250	cum	3196.07	64,720.37	
4	322,1 8.05(b	Hire and labour charges for Shuttering with or without staging upto 4.0 m height using approved stout props with wooden planks/ply wood/steel sheet plate with required bracing for any kind of plain or reinforced concrete works in all sorts of minor structure including culvert, box culvert, cross-drain etc. The rate is inclusive of fitting, fixing and striking out after completion of work as per specification and direction.									
		outer side	2	100.00		0.410	82.000	sqm	214.00	17,548.00	
		Inner Side	2	100.00		0.250	50.000	sqm	214.00	10,700.00	
	PWD Buildi ng	Supplying & Laying Polytheneshet(15 flooring or roof terracing or in	_								
5	Sechu dle(P-		1	100.00	2.70		270.00				
	47) It	For Lugs	2	100.00	0.15		30.00	2			
	no-03	Providing and laying Design Mirroger	rato f	r plain /=	Total	concrete:	300.00	m ²	24.00	7,200.00	
6	Rate analys is attach ed	Providing and laying Design Mix condany part of bridge (excluding bottom pappropriate nominal size and grading, grading zone, both of approved quality cost and carriage of all materials and i approval of the same by the Engineer-sampling, testing etc. all complete but formwork & reinforcement works.M3									
		Carriage way	1	100.00		0.160		cum	5691.68	2,73,200.40	
		Drop Wall	2	100.00	0.150	0.250	7.500	cum	5691.68	42,687.56	

Sl no	Page No & It No	Description	Nos	L (m.)	B (m.)	H (m.)	QTY	Unit	Rate	Amount	
		Supplying and spreading moorum	` ′		٠ .						
	_	required thk. In layers as specified an									
	Rate	adding reuisite quantity of water to									
	analys	rolling in power roller to the re									
7	1S	grade,camber, super elevation etc with power roller including proper tampering									
	attach	and earing the same for 5 days to have maximum ary density as specified and									
	ed	lighting,guarding,barricading and making adequate earthen bundth for protecting									
		the	edges	etc.							
		Both side	2	100.00	0.300	0.235	14.100	cum	637.98	8,995.49	
		Rate analysis attached									
9		Expansion Joint with Bitumin(L.S)	28					Nos	75	2,100.00	
	TOTAL COST (A) Rs.										
	Add GST(6% CGST+6% SGST)On SI No A)B@12.0% Rs.										
	Cost of Civi works excluding labour welfare cess Total (C=A+B)Rs.										
	Labour welfare cess (on Sl.no C)@1.0%D Rs.										
	Cost of Civi works including labour welfare cess amount (E=C+D) Rs.										
					Ac	dd Conting	gency (on	Sl.no C) @3.0% Rs.	14,352.30	
						TOT	AL ESTI	MATE	D COST Rs.	4,97,546.00	

 $\begin{array}{c} \text{TOTAL ESTIMATED COST Rs.} \text{(IN WORD)-FOUR LAKH NINETY SEVEN THOUSAND FIVE HUNDDRED FOURTY SIX} \\ \text{ONLY} \end{array}$

					Aaysis of C				
1ct Cox	mi aan dum	Pr Addanda	to D		Format C		ad & Drid	go Works	D 1 Cage II
	n of Stone M), SOR: 2015-16 Ro		au & briu	ge works	, P-1, Case-11
Gradatio	Aggregates	`	20mm		10mm				
Cost of material from Pakur(Medinipur			1	700.00	1569	9.00			
L+U(P-224		57.75		, , , , , ,			L+U+S	77.00	L=40%
	Up to 20KM -227,It-3 pto 5km 124.00								U=35%
P-227,It-3							S		S=25%
Upto 5km					L=Loading				
5-10km			3	337.25	337	.25	U=Unloadin	g	
10-20km	10.10X10	101.00					S=Stacking		
20-50km	9.50X05	0.00							
50-100	8.40X50								
100-150	7.90X50								
		337.25	2	037.25	1900	5.25			
				Cement					
				oncrete					
Cost of 20 1	nm stone chi	DS	cum	0.6	0.54	2037.25	1100.12		
	nm stone chi		cum	0.4	0.36	1906.25	686.25		
P-208, Table					0.00	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000.00		
Cost of Ce	ment(PPC/PS	SC/OPC43) P-			•				•
	,	Addenda,P-1		(571	7/1000)x430		2458.31		
					,				
		esign Mix cond					1447.00		
		oncrete work in	•						
		g bottom plugg						430kg (Cement for M20
		es of appropria							(For Estimation
	_	ng, fine aggreg						_	From durability
		oper grading z							tion, the value of
		ity and cement,							cement content and
		labour, cost an							water cement ratio
_		als and including	_						sidered in the mix
preparation of design mix, approval of							5691.68		nall be as per the
		n-Charge and						_	of the Engineer-
		oling, testing et							e.(P-323,Note-2)
		cost of labour						8	, , ,
materials for formwork & reinforcement									
		Using concrete							
mixer.		18.07(d)(i)11th	ı						
	corigend	lum				Total			
						ı olai			

			Rate Analy	sis			
			Analysis of Sandy	y Moorum	·		
		on of Item		Moorum			
a)	Cost of Morrum at Quarr	• 1					
	Addenda to PWD (WB),	SOR: 2015-16 Road					
	P-3, It-7)		117.00				
b)		om quarry to work site	e = 07 km				
	0 -5 KM	Rs 124.00					
	5 - 10 KM	Rs 54.50		178.50			
		TOTAL = Rs 178.50					
c)		ding & Unloading		46.50			
		62.00 x @ 0.75					
	Total cost of n	noorum per cum		342.00			
		<u> </u>	by Moorum (70%	· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			
a)	Moorum (P-3, S1 No 7)	0.7	1	510.45		357.31
b)	Sand (P-3, Sl no-3)		0.3	1	342.22		102.66
c)	Lal	our and other cost (P	-242, sl no - 4.04	& 4.05)			178.00
		Total				Rs	637.98
			Fine Sand				
				T	<u> </u>		
			20.5	,		55 00	T 100/
	Cost at Site			rs/cum	L+U+S	77.00	L = 40%
	(11th Corrigenda & Add		SOR: 2015-16				
	Road & Bridge Works P	-3, It-3)			L+U		U = 35%
				rs/cum	S	19.25	S = 25%
			285.75	rs/cum			
	Compacting Factor(280,	12.04,Note 2]	0.835				
			3/12 22	rs/cum			
	Labour Charges 11th Co.	rrigendum			+ +		
		ingchain	173.00	15/Culli	+ +		
			515 22	rs/cum	+ +		
	Labour Charges 11th Co. 280,12.04 Total	rrigendum	173.00	rs/cum rs/cum			

				Rate Analys	sis of WBM	GRADE-II		
		(P-2	245/Item-4.1	11(iii) Roads	& Bridge se	chedule & 11t	h Corrigen	da
		A) Hard	l broken Ag	gregates of Pa	akur Variety	From Midnap	ore Railway	Yard Yard
								Rs./m3
	1	Cost of agg	1691					
	2	Loading &	62.25					
						Rs.		
	3	Carrying						
		Upto 5 km				124		
		5-10km		10.90x5		54.5		
		10-20 km		10.10x10		101		
		20-50km		9.50x00				
			279.5					
		Cos	2032.75					
			Rs./cu.m					
	1	Cost at quan B)Medinipu		Table-III(2),	11th Corrigo	endum(Type-		1280.00
	2	Loading &	Unloading (75% of Rs.62	2)P-224,It no	-1.03(a)		46.50
	3	Carrying				Rs.		
i		Upto 5 km				124		
ii		5-10km		10.90x5		54.5		
iii		10-20 km		10.10x10		101		
iv		20-50km		9.50x00				
				Total		279.5		279.50
				1606.00				
		Analysis of	WBM Grad	le-II				
		Item	Size	Source	Qty		Rate(Rs)	Amount(Rs./cu.m)
	1	Cost of Stone metal	53mm- 22.4mm	Pakur	1.21		2032.75	2459.6275
	2	Cost of Screening Materials	Туре-В	Pakur	0.24		1606.00	385.44
	3	Labour & C	Others (Pg-2	45, It-4.11(iii))(b) & 11th	Corrigendum		351
							Total	3196.07