GOVERNMENT OF BIHAR FDR (2020-21)



Name of Road:-Dhaka Ghorasahan Road me Bisrahiya to Pipra Length- 1.20 Km

Estimated Cost- Rs.:- 1,12,900.00 Block- Dhaka

Submitted By
Executive Engineer
R.W.D. (W) Division Dhaka

F.D.R (2020-21)

तकनीकी प्रतिवेदन

पथ का नाम :- दाना - पोशसहन शेड में विश्वपित के पीपरा

पथ की लम्बाई:- 1.20 कि भी-

शीर्ष:- 3054

प्राक्कलित राशि:- र- 1,12,900 200

अनुरक्षण अवधि :- - - -

प्रस्तुत प्राक्कलन दिन्हा प्रोडिस है के किया प्राक्कलन दिने प्राक्कलन दिने प्राप्त प्राक्कलन दिने तैयार किया गया है जिसकी प्राक्कलित राशि मी०...। 12,9.00.00. रू० है। प्रस्तुत प्राक्कलन सचिव ग्रामीण कार्य विमाग बिहार पटना के पत्रांकः—2254, दिनांकः—30.06.2020 के निर्देशानुसार तैयार किया गया है। पथ में अतिवृष्टि / वाढ़ के कारण क्षतिग्रस्त पथाशों में Brick Bats से भरने का प्रावधान किया गया है। प्राक्कलन में दिये गये दर वर्त्तमान अनूसूचित दर के अनुरूप है।

कनीय अभियंता ग्रामीण कार्य विभाग कार्य प्रशाखा, ढाका।

कार्यपालक अभियंता ग्रमीण कार्य विभाग कार्य प्रमण्डल, ढाका nate for Restoration work of Road from Dhaka Ghorasahan Road me Bisrahiya to pra for the year 2020-21 in Dhaka Block.

Length:- 1.20 Km

SL No.	Name of	Item		Unit	Quantity	Rate	Amount
1	Labour for laying dry graded jil under Bricks pitching in slope ramming etc	or apron incluste as per appr	ding light oved design	M ³	M ³	2053.84	1,12,910.00
		Total =	54.975M ³				
					Total	Rs.	1,12,910.00
						Say Rs.	1,12,900.00

1-9.2020 J.E.	Вщебе 0H09/2020 А.Е.	० नात
Post Facto	T.A.T. 8 is accorded for Rs. 1,12,900 = \(\text{Core.} \text{Core.} \text{One.} \text{lacs. Twelve. thousand} \\ \text{Mine.} \text{hundred.} \text{) only.}	
	S.E. (R.W.D.) works Circle Motihari 29-12-20	

BRICK BATS PITCHING MANUAL MEANS

Bihar	Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I.							
Dilla	acoremication and direction of E/1.							
	Unit :- Per Cum							
	Taking Output = 2.832 Cum							
7		Nos.	3	287.00	861.00			
	Add 6% Overhead Charges	•			51.66			
	Rate for 2.832 Cum				912.66			
	Rate per Cum (Rs.) -				-383.15			
4 RCD	Cost of Haulage Excluding Loading and Unloading							
- 12	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
	Unit = t.km							
	Taking output 3.60 tonnes load and lead 1	LO km = 36	5.0 t.km					
	(i) Surfaced Road	\.						
	Speed with load : 15 km / hour.							
	Speed while Returning empty :25 km / hour.							
	a) Machinery.							
	Tractor 3.6 tonne capacity							
	Time taken for onward haulage with load	-	0.667	549.10	366.25			
	Time taken for empty return trip.	hour	0.400	549.10	219.64			
	b) Overhead charges @ 0.06 on (a)				35.15			
	cost for 36 t km = a+b+c				621.04			
	Rate per t.km = $(a+b+c)/36$		*		17.25			
	Say Rs				17.2			
	(ii) Haranda and Carallad Band							
	(ii) Unsurfaced Graveled Road							
-	Speed with load: 12 km / hour							
	Speed for empty return trip :20 km / hou	r						
	a) Machinery							
	Tractor 3.6 tonnes capacity							
	Time taken for onward haulage with load		0.833	549.10	457.4			
	Time taken for empty return trip hour 0.5	hour	0.500	549.10	274.5			
	b) Overhead charges @ 0.06 on (a)				43.9			
	Cost for 36 t .km = a+b+c 840.34				775.8			
	Rate per t.Km = $(a+b+c)/36$ 23.34				21.5			
	Say Rs				21.5			

Scanned by CamScanner

Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excludingfor haulage and return trip Unit = cum	1 RCD	Loading and Unloading of Stone Boulder,	/ Stoneaggr	egates/Sand /	Kanker/Moor	um	
excludingfor haulage and return trip		Placing Tractor at loading point, loading	with frontle	pader, dumpin	g, turning for	return trip,	
Taking output = 2.25 cum Time required for i) Positioning of Tractor at loading point ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc Total a) Labour Mate day 0.03 305.00 9.15 Maxdoor for loading and unloading b) Machinery Tractor 3.60 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour c) Overhead charges @ 0.06 on (a+b) Cost for 2.25 cum = a+b+c+d Rate per cum = (a+b+c+d)/ 2.25 Ote: Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Add overhed Charges Total Surface Lead Visual Capacity Surface Lead Visual Capacity							
Time required for i) Positioning of Tractor at loading point ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc Total a) Labour Mate day 0.03 305.00 9.15 Mazdoor for loading and unloading b) Machinery Tractor 3.60 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour c) Overhead charges @ 0.06 on (a+b) Cost for 2.25 cum = a+b+c+d) Rate per cum = (a+b+c+d)/2.25 lote: Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Add overhed Charges Total - Surface Lead WM 1 Factor (3.6/2.25) B. Carriage (with OH) (1.6 x ≠ 17.25) + (1.6 x 1 x 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) Add 12/8 GST (A+B+C) Add 12/8 GST (A+B+C) 18.71 Add 12/8 GST (A+B+C) 224.55		Unit = cum					
1) Positioning of Tractor at loading point 1 Min 1) Loading by front end loader 1 cum 5 Min 1		Taking output = 2.25 cum					
1 Min							
bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc O Min Total a) Labour Mate — day 0.03 305.00 9.15 Mazdoor for loading and unloading day 0.72 287.00 206.64 b) Machinery Tractor 3.60 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour c) Overhead charges @ 0.06 on (a+b) 23.23 Cost for 2.25 cum = a+b+c+d Rate per cum = (a+b+c+d)/2.25 182.39 lote: Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Add overhed Charges Total Surface Lead Unsurface Lead Unsurface Lead Unsurface Lead Carriage (with OH) (1.6 × 2×17.25) + (1.6 × 1 × 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) Add 12% 6ST (A+B+C) Add 12% 6ST (A+B+C) Add 12% 6ST (A+B+C)		i) Positioning of Tractor at loading point		1 Min			
bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc O Min Total a) Labour Mate — day 0.03 305.00 9.15 Mazdoor for loading and unloading day 0.72 287.00 206.64 b) Machinery Tractor 3.60 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour c) Overhead charges @ 0.06 on (a+b) 23.23 Cost for 2.25 cum = a+b+c+d Rate per cum = (a+b+c+d)/2.25 182.39 lote: Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Value (Add overhed Charges) Total Value (Bats) V		ii) Loading by front end loader 1 cum					
iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc O Min Total a) Labour Mate				5 Min		12000	
turning for return				J IVIIII			
iv) Waiting time, unforeseen contingencies etc Total a) Labour Mate				0 Min			
contingencies etc Total a) Labour Mate — day 0.03 305.00 9.15 Mazdoor for loading and unloading day 0.72 287.00 206.64 b) Machinery Tractor 3.60 tonnes capacity hour 0.1 549.10 54.91 Front end-loader 1 cum bucket capacity @ 25 cum/hour hour 0.083 1403.00 116.45 c) Overhead charges @ 0.06 on (a+b) Cost for 2.25 cum = a+b+c+d 410.38 Rate per cum = (a+b+c+d)/ 2.25 182.39 lote:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 4/ Unsurface Lead KM 1 7/ Cum 1.60 B. Carriage (with OH) (1.6 x-2x 17.25) + (1.6 x 1 x 21.55) + 182.39 -410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - 1871.24 Add 11% Labour Cess (A+B+C) 1871.24 Add 12k GST (A+B+C) 224.55				O IVIIII			
Total a) Labour Mate - day 0.03 305.00 9.15 Mazdoor for loading and unloading day 0.72' 287.00 206.64 b) Machinery Tractor 3.60 tonnes capacity hour 0.1 549.10 54.91 Front end-loader 1 cum bucket capacity @ 25 cum/hour 0.083 1403.00 116.45 c) Overhead charges @ 0.06 on (a+b) 23.23 Cost for 2.25 cum = a+b+c+d 410.38 Rate per cum = (a+b+c+d)/ 2.25 182.39 lote:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 7 9 Unsurface Lead KM 1 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 x 2 x 17.25) + (1.6 x 1 x 21.55) + 182.39 410.40 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) 18.71 Add 12% GST (A+B+C) 224.55				0 Min		12	
a) Labour Mate							
Mate		a) Labour					
Mazdoor for leading and unloading day 0.72" 287.00 206.64 b) Machinery Tractor 3.60 tonnes capacity hour 0.1 549.10 54.91 Front end-loader 1 cum bucket capacity © 25 cum/hour 0.083 1403.00 116.45 c) Overhead charges @ 0.06 on (a+b) 23.23 Cost for 2.25 cum = a+b+c+d 410.38 Rate per cum = (a+b+c+d)/ 2.25 182.39 lote:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) 1017.00 A. Basic Rate of Brick Bats Per Cum 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7* Y Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) -410.07 (1.6 x 7x 17.25) + (1.6 x 1 x 21.55) + 182.39 -410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) -383.15 Total (A+B+C) - 18.71.24 Add 1% Labour Cess (A+B+C) 18.71.24 Add 12% GST (A+B+C) 224.55	-1139		day	0.03	305.00	9.15	
b) Machinery Tractor 3.60 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour bour @ 25 cum/hour @ 25 cum/hour bour @ 25 cum/hour bour 0.083 1403.00 116.45 c) Overhead charges @ 0.06 on (a+b) Cost for 2.25 cum = a+b+c+d Rate per cum = (a+b+c+d)/2.25 182.39 Iote:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum 1017.00 Add overhed Charges 6% 61.02 Total - Surface Lead KM 7 - V Unsurface Lead KM 7 - V Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 × 2×17.25) + (1.6 × 1 × 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) OH) Total (A+B+C) - Add 12 KgST (A+B+C) 18.71 Add 12% GST (A+B+C) 224.55		Mazdoor for leading and unloading	-			206.64	
Front end-loader 1 cum bucket capacity @ 25 cum/hour hour 0.083 1403.00 116.45 c) Overhead charges @ 0.06 on (a+b) 23.23 Cost for 2.25 cum = a+b+c+d 410.38 Rate per cum = (a+b+c+d)/ 2.25 182.39 lote:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 4 Unsurface Lead KM 1 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 ★ ★ 17.25) + (1.6 ★ 1 ★ 21.55) + 182.39 410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) OH) -383.15 Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) 18.71 Add 1% Corrected the corrected and the corrected	1-						
@ 25 cum/hour hour 0.083 1403.00 116.45 c) Overhead charges @ 0.06 on (a+b) 23.23 Cost for 2.25 cum = a+b+c+d 410.38 Rate per cum = (a+b+c+d)/ 2.25 182.39 Iote:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) 1017.00 A. Basic Rate of Brick Bats Per Cum 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 Ч Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) 23.3 C. Ramming as per WRD SOR 6.6.1 (with OH) 33.3 C. Ramming as per WRD SOR 6.6.1 (with OH) 18.71.24 Add 1% Labour Cess (A+B+C) 18.71.24 Add 1% Labour Cess (A+B+C) 224.55		Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91	
c) Overhead charges @ 0.06 on (a+b) Cost for 2.25 cum = a+b+c+d Rate per cum = (a+b+c+d)/ 2.25 Indic:- Unloading will be done manually. 1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum Add overhed Charges For all - Surface Lead Factor (3.6/2.25) Cum Cum Cum Cum Cum Cum Cum Cum Cum							
Cost for 2.25 cum = a+b+c+d		@ 25 cum/hour	hour	0.083	1403.00	116.45	
Rate per cum = (a+b+c+d)/ 2.25 182.39 Inter-		c) Overhead charges @ 0.06 on (a+b)				23.23	
1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 // Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 × 7 × 17.25) + (1.6 × 1 × 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) 224.55		Cost for 2.25 cum = a+b+c+d				410.38	
1. Suplying for Brick Bats (with OH) A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total 1078.02 Surface Lead KM 7 4 Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) 18. 21. 224.55		Rate per cum = $(a+b+c+d)/2.25$				182.39	
A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 4 Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 × 7 × 17.25) + (1.6 × 1 × 21.55) + 182.39 410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) 3.1 Total (A+B+C) - 1871.24 Add 12% GST (A+B+C) 1224.55	lote:-	Unloading will be done manually.					
A. Basic Rate of Brick Bats Per Cum 1017.00 1017.00 Add overhed Charges 6% 61.02 Total - 1078.02 Surface Lead KM 7 4 Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 × 7 × 17.25) + (1.6 × 1 × 21.55) + 182.39 410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) 3.1 Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) 18.71 Add 12% GST (A+B+C) 224.55	1.	Suplying for Brick Bats (with OH)					
Add overhed Charges Total - Surface Lead KM Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 x ₹ x 17.25) + (1.6 x 1 x 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - Add 12 k GST (A+B+C) Add 12 k GST (A+B+C) Add 12 k GST (A+B+C)			Per Cum		1017.00	1017.00	
Total - 1078.02 Surface Lead KM 7 4 Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 × 7 × 17.25) + (1.6 × 1 × 21.55) + 182.39 410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) 383.15 Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) 18.71 Add 12% GST (A+B+C) 224.55		Add overhed Charges		6%			
Surface Lead KM 7 4 Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 x ₹ x 17.25) + (1.6 x 1 x 21.55) + 182.39 410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - 424.55 Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) Add 12% GST (A+B+C) Add 12% GST (A+B+C)							
Unsurface Lead KM 1 Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39 -410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) -18.71 Add 12% GST (A+B+C) -224.55		Conference de la confer	1/0.4		13.1		
Factor (3.6/2.25) Cum 1.60 B. Carriage (with OH) (1.6 x ₹ x 17.25) + (1.6 x 1 x 21.55) + 182.39 -410.07 C. Ramming as per WRD SOR 6.6.1 (with OH) -383.15 3 Total (A+B+C) - Add 1% Labour Cess (A+B+C) 1871.24 1 Add 12% GST (A+B+C) 224.55 2							
B. Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) 224.55						-	
(1.6 × 2 × 17.25) + (1.6 × 1 × 21.55) + 182.39 C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) 224.55		Factor (3.6/2.25)	Cum	1.60			
C. Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) 18.71 Add 12% GST (A+B+C) 224.55	В.	Carriage (with OH)					
OH) -383.15 Total (A+B+C) - Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) 224.55		$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.$.39			-410.07	327,27
Total (A+B+C) - 1871.24 Add 1% Labour Cess (A+B+C) 18.71 Add 12% GST (A+B+C) 224.55	C.					202.15	3.22.2
Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C) 224.55							
Add 12% GST (A+B+C) 224.55							
ALLEGO CONTRACTOR OF THE CONTR							
Add 10% cost of Material for Seigniorage Fee 1 101.70 101.70			-				297-31
		Add 10% cost of Material for Seigniorage	Fee	1	101.70	101.70	
Total Cost per Cum Rs 2216.20					Rs	2216.20	4 2 * 2"
1.9.2020 A.E 67109120		- 10ba	\$	Hode		8	2053-8
8.E: 07/09/2020 67/09/2020		1.8	071	09/2020		67/10/20	20

Inspection Report for Flood Damage Works:-

Date:-

- 1. Name of PIUs:- Executive Engineer. R.W.D. (W) Div. Dhaka
- 2. Name of Block:- Dhaka
- 3. Name of Road: Dhaka Ghorasahan Road me Bishrahiya to Pipra

(A)For Road

- 1. Damage Location Chainage:-
- 2. Damage Length:- 85 M
- 3. Name of Damage: Road damaged due to Flood.
- 4. Details of Restoration Work:-
 - (i) Material being used in Restoration works:- Brick bats
 - (ii) Equipments Tools being used in restoration works:-
 - (iii) Procedure take up in restoration works:- Departmental
 - (iv) Restored Length:- ≥5 ™

Executive Engineer R.W.D. (W) Div.ⁿ

Raxaul