1.00

GOVERNMENT OF BIHAR FDR (2020-21)



Name of Road:- Mathiya Narkatia Road	Length-1.10 Km
Estimated Cost- Rs.:- 5,43,600.00	Block- Dhaka

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

F.D.R (2020-21)

तकनीकी प्रतिवेदन

पथ का नाम :- मिहिमा - नर्किश्या रोड
प्रखंड का नाम :- दाका
पथ की लम्बाई:- 1.10 कि॰मी॰
शीर्ष :- ३०८५.
प्राक्कलित राशि:- रू. ५,43,६००२००
अनुरक्षण अविध :- निर्माणाणीन

प्रस्तुत प्राक्कलन मिदिया -नर्किटिया रोड में अतिवृष्टि / वाढ़ से क्षतिग्रस्त पथाशों में यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि मो० 543 600,00 रू० है। प्रस्तुत प्राक्कलन सचिव ग्रामीण कार्य विभाग बिहार पटना के पत्रांक:-2254, दिनांक:-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। 8440b

सहाय अभियंता ग्रामीण कार्य विभाग कार्य अवर प्रमंडल, दाका कार्यपालक अभियंता ग्रमीण कार्य विभाग कार्य प्रमण्डल, ढाका

imate for Restoration work of Road from Mathiya Narkatia Road for the year 2020-21 in Dhaka Block.

Length:- 1.10 Km

SL N.	Name of Item			Unit	Quantity M ³	Rate Rs.	Amount Rs.
1	Labour for laying dry graded jhama under Bricks pitching in slope or ar ramming etc all complete as specification and direction of E/I. (oron includi s per appro	ing light				
	CH:-0M to 80M 80.00x4.00x0.300+0.400+0.300/3 CH:- 640M to 660M	=	106.66M ³				
	20.00x4.00+5.00/2x0.600 <u>CH:- 670M to 700M</u> 30.00x4.00x0.400	=	48.00M ³				
	CH:-800M to 820M 20.00x4.00x0.400	=	32.00M ³				
	<u>CH:- 825M to 840M</u> 15.00x4.00x0.400	= Total =	24.00M ³ 264.66M ³	M ³	264.66	2053.84	5,43,569.00
-		7,535			Total=	Rs.	5,43,569.00
						Say Rs.	5,43,600.00

JE.	DHO9/20 AE.
* Frecho T.A.MS is accorded for RscroreFi've	S.E. (R.W.D.) works Circle
Edin in the second	Motihari 29-12-20

EE.

BRICK BATS PITCHING MANUAL MEANS

Unit :- Per Cum Taking Output = 2.832 Cum Nos. 3 287.00 861.00 Unskilled Mazdoor Add 6% Overhead Charges Rate for 2.832 Cum Rate per Cum (Rs.)	6.6.1 WRD Bihar	Labour for laying dry graded Jhama Kho Pitching in slope or apron including lig design, specification and direction of E/I.	a or stone ht rammir	filter under B	rick Pitching aplete as pe	or Boulder r approved
Taking Output = 2.832 Cum Unskilled Mazdoor Add 6% Overhead Charges Rate for 2.832 Cum Rate per Cum (Rs.) - 1.4 RCD Cost of Haulage Excluding Loading and Unloading Haulage of materials by Tractor excluding cost of loading, unloading and stacking. Unit = t.km Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km (i) Surfaced Road Speed with load : 15 km / hour. Speed with load: 15 km / hour. a) Machinery. Tractor 3.6 tonne capacity Time taken for onward haulage with load hour cost for 36 t km = a+b+c Rate per t.km = (a+b+c)/36 Speed with load: 12 km / hour speed for empty return trip: 20 km / hour a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load hour speed with load: 12 km / ho		Unit :- Per Cum				
Unskilled Mazdoor						
Add 6% Overhead Charges 912.66			Nos.	3	287.00	
Rate for 2.832 Cum Rate per Cum (Rs.) - 1.4 RCD Cost of Haulage Excluding Loading and Unloading Haulage of materials by Tractor excluding cost of loading, unloading and stacking. Unit = t.km Taking output 3.60 tonnes load and lead 10 km = 36.0 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 hour 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) 621.04 Rate per t.km = (a+b+c)/36 Say Rs (ii) Unsurfaced Graveled Road Speed with load: 12 km / hour Speed for empty return trip: 20 km / hour a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load Time taken for onward haulage with load Speed with load: 12 km / hour a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load		Oliskilled Mazdool				
Rate per Cum (Rs.) - 1.4 RCD Cost of Haulage Excluding Loading and Unloading						
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Haulage of materials by Tractor excluding cost of loading, unloading and stateling. Unit = t.km Taking output 3.60 tonnes load and lead 10 km = 36.0 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 hour 0.667 549.10 219.64 Time taken for empty return trip. hour 0.400 549.10 219.64 Bo Overhead charges @ 0.06 on (a) 549.10 35.15 Cost for 36 t km = a+b+c 521.04 Rate per t.km = (a+b+c)/36 17.25 Say Rs 17.25 (ii) Unsurfaced Graveled Road 59eed with load: 12 km / hour 30 Machinery 71 Tractor 3.6 tonnes capacity 71 Time taken for onward haulage with load hour 0.833 549.10 457.40 Time taken for onward haulage with load hour 0.833 549.10 457.40 Time taken for empty return trip hour 0.5 hour 0.500 549.10 274.55 b) Overhead charges @ 0.06 on (a) 43.92 Cost for 36 t .km = a+b+c 840.34 775.87 Rate per t.Km = (a+b+c)/36 23.34 21.55		Rate per Cum (Rs.) -				
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Time taken for empty return trip. hour 0.400 549.10 219.64 Time taken for empty return trip. hour 0.400 549.10 35.15 b) Overhead charges @ 0.06 on (a) 621.04 Cost for 36 t km = a+b+c 7.25 Rate per t.km = (a+b+c)/36 77.25 Say Rs 7.25 (ii) Unsurfaced Graveled Road 7.25 Speed with load: 12 km / hour 7.25 Speed for empty return trip: 20 km / hour 7.25 Tractor 3.6 tonnes capacity 7.25 Time taken for onward haulage with load hour 7.25 Time taken for empty return trip hour 0.5 hour 7.25 b) Overhead charges @ 0.06 on (a) 7.25 Cost for 36 t .km = a+b+c 840.34 7.75.87 Rate per t.Km = (a+b+c)/36 23.34 7.55		Tractor 3.6 tonne capacity	hour	0.667	549.10	366.25
Speed with load: 12 km / hour	-	Time taken for onward hadiage with load	hour		549.10	219.64
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Say Rs (ii) Unsurfaced Graveled Road Speed with load: 12 km / hour Speed for empty return trip:20 km / hour a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load hour Time taken for empty return trip hour 0.5 hour b) Overhead charges @ 0.06 on (a) Cost for 36 t .km = a+b+c 840.34 Rate per t.Km = (a+b+c)/36 23.34		The second secon				17.25
(ii) Unsurfaced Graveled Road Speed with load: 12 km / hour Speed for empty return trip :20 km / hour a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load hour Time taken for empty return trip hour 0.5 hour Diverhead charges @ 0.06 on (a) Cost for 36 t .km = a+b+c 840.34 Rate per t.Km = (a+b+c)/36 23.34						17.25
Speed with load: 12 km / hour Speed for empty return trip:20 km / hour a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load hour Time taken for empty return trip hour 0.5 hour b) Overhead charges @ 0.06 on (a) Cost for 36 t .km = a+b+c 840.34 Rate per t.Km = (a+b+c)/36 23.34		Say Rs				
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Speed for empty return trip :20 km / hour a) Machinery						
a) Machinery Tractor 3.6 tonnes capacity Time taken for onward haulage with load hour Time taken for empty return trip hour 0.5 hour b) Overhead charges @ 0.06 on (a) Cost for 36 t .km = a+b+c 840.34 Rate per t.Km = (a+b+c)/36 23.34 21.55	-		r			
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Time taken for empty return trip hour 0.5 hour 0.500 549.10 274.55 b) Overhead charges @ 0.06 on (a) 43.92 Cost for 36 t .km = a+b+c 840.34 775.87 Rate per t.Km = (a+b+c)/36 23.34 21.55		Time taken for onward haulage with load	hour	0.833	549.10	457.40
b) Overhead charges @ 0.06 on (a) 43.92 Cost for 36 t .km = a+b+c 840.34 775.87 Rate per t.Km = (a+b+c)/36 23.34 21.55	-					
Cost for 36 t .km = a+b+c 840.34 Rate per t.Km = (a+b+c)/36 23.34 775.87	-	b) Overhead charges @ 0.06 on (a)	11001	0.000		
Rate per t.Km = (a+b+c)/36 23.34 21.55	-					
hate per dam = (a.b.e)/se total						
Say Rs						
		Say Rs				22,00

322,27

	J.E	4006 109/1020 A-E			SE	2053-84
	Total Cost per Cum			Rs	2216.20	Land Line
	Add 10% cost of Material for Seigniorage	Fee	1	101.70	101.70	
	Add 12% GST (A+B+C)				224.55	297-31
	Add 1% Labour Cess (A+B+C)				_18.71	17:27
	Total (A+B+C) -				1871.24	1727-56
C.	Ramming as per WRD SOR 6.6.1 (with OH)				-383.15	322+2
В.	Carriage (with OH) $(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.3$	39			-410.07	327,27
P						
	Factor (3.6/2.25)	Cum	1.60			
-	Unsurface Lead	KM	1			
	Surface Lead	KM	7			
	Total -				1078.02	
	Add overhed Charges		6%		61.02	
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00	
1.	Suplying for Brick Bats (with OH)					
lote:-	Unloading will be done manually.					
	Rate per cum = $(a+b+c+d)/2.25$				182.39	
	Cost for 2.25 cum = a+b+c+d				410.38	
	c) Overhead charges @ 0.06 on (a+b)				23.23	
	@ 25 cum/hour	hour	0.083	1403.00	116.45	
	Front end-loader 1 cum bucket capacity					
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91	
	b) Machinery					
	Mazdoor for loading and unloading	day	0.72	287.00	206.64	
	Mate -	day	0.03	305.00	9.15	
	a) Labour		0 11111			
	contingencies etc Total		6 Min			
	iv) Waiting time, unforeseen		0 Min			
	turning for return		0 Min			
	iii) Maneuvering, reversing, dumping and					
	bucket capacity @ 25 cum per hour		5 Min			
	ii) Loading by front end loader 1 cum					
			1 Min			
	i) Positioning of Tractor at loading point					
	Time required for					
	Taking output = 2.25 cum					
	Unit = cum					
	excludingfor haulage and return trip					
	Placing Tractor at loading point, loading	MITH ILOUI	loader, dumpi	ng, turning	101 lecarit crip	

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 :- Mathiya . Narkatiya Road

(A)For Road

- 1. Damage Location Chainage:-
- 2. Damage Length:- 185 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:- 185 m.

Executive Engineer R.W.D. (W) Div.