



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

Head- FDR(2245)

YEAR 2020-21

Name of Division - R.W.D. (W) Division Dhaka
Block :- Chiraiya
District :- East Champaran

Name of Road - Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Motihari Dhaka PWD Road to Katkuiya

Length - 3.910 K.M

ESTIMATED COST :- 972800.00 Lakh

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION, DHAKA

तकनीकी प्रतिवेदन

पथ का नाम :- मौजिदारी ढाका PWD पथ से करकड़ियों पथ

प्रखंड का नाम :- चिरैया

शीर्ष :- PMGSY

प्राक्कलित राशि :- 9,72,800.00

अनुरक्षण अवधि :- अनुरक्षण अवधि के अंदर

प्रस्तुत प्राक्कलन मौजिदारी ढाका PWD पथ से करकड़ियों पथ में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 9,72,800.00 है। प्रस्तुत प्राक्कलन सचिव, ग्रामीण कार्य विभाग, पटना के पत्रांक-2254 दिनांक-30.06.2020 के निर्देशानुसार तैयार किया गया है पथ में अतिवृष्टि/बाढ़ के कारण क्षतिग्रस्त पथांशों में Brick bats से भरने का प्रावधान किया गया है।

प्राक्कलन में दिये गये दर वर्तमान अनुसूचित दर के अनुरूप है।

22/12/20

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा चिरैया

24/12/20

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल चिरैया

23/12/2020

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, ढाका

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Motihari
Dhaka PWD Road to Katkuiya

Head - 2245 Length- 3.910 KM

Sl No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		Labour for laying dry graded Jhama Khoa or stone filler under Brick Pitching or Boulder Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/L.	cum	As Per			Appendix I	452.970 410.42	2147.41	972712.31 881340 = 0
2		Providing and Laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, Protection Works, backfilling, concrete and masonry	M	3	2.50M	0	0	0	4744.43	0.00
3		Sand filling with Approved Materials seposited at site from roadway cutting and excavation from drain and foundation of other structure graded and compected as per Technical Specification	M3	0				0	400.59	0.00
TOTAL (in Re.)										972712.31
Total Rs-										972800.00

[Signature]
22/12/2020
Junior Engineer,
Rural Works Department,
Works Section, Dhaka
Chiraiya

[Signature]
22/12/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division, Dhaka
Chiraiya

[Signature]
23/12/2020
Executive Engineer,
Rural Works Department,
Works Division, Dhaka

Post Facto T.A.T/S is accorded for Rs. 8,81,300 = 0
(.....crore.....Eight.....lacs.....Eighty one
.....Thousand
.....Three hundred only.

[Signature]
12/5/21
S.E. (R.W.D.)
works Circle
Motihari
[Signature]
29-4-21

Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Motihari
Dhaka PWD Road to Katkuiya

Appendix - I

Measurement for surfacing the Breach with Brick Bats

Sl. No.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	3.250	42.000	3.000	0.150	18.900
2	3.350	20.000	$\frac{3,500+7,500}{2}$	1.500	157.500
3	3.450	46.000	$\frac{3,000+6,250}{2}$	1.300 1.1	276.570 234.02
Total					452.970 410.42

Junior Engineer
Rural Works Department,
Works Section, Dhaka

Chiraiya

Asistant Engineer
Rural Works Department,
Works Sub Division, Dhaka

Chiraiya

Executive Engineer,
Rural Works Department,
Works Division, Dhaka

Post Facto T.A./TS is accorded for Rs.
(.....crore.....lacs.....thousand
.....hundred.....) only.

S.E. (R.W.D.)
works Circle
Motihari

BRICK BATS PITCHING MANUAL MEANS

6.6.1 WRD Bihar	Labour for laying dry graded Jhama Khon or stone filter under Brick Pitching or Boulder Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/L.				
	Unit :- Per Cum				
	Taking Output = 2.832 Cum				
	Unskilled Mazdoor	Nos.	3	287.00	861.00
	Add 6% Overhead Charges				51.66
	Rate for 2.832 Cum				912.66
	Rate per Cum (Rs.) -				322.27
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)				35.15
	cost for 36 t km = a+b+c				621.04
	Rate per t.km = (a+b+c)/36				17.25
	Say Rs. -				17.25
	(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	0.833	549.10	457.40
	Time taken for empty return trip	hour 0.500	0.500	549.10	274.55
	b) Overhead charges @ 0.06 on (a)				43.92
	Cost for 36 t .km = a+b+c				775.87
	Rate per t.Km = (a+b+c)/36				21.55
	Say Rs. -				21.55

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1.1 RCD		Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum excluding for haulage and return trip			
Unit = cum					
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			1 Min		
iii) Maneuvering, reversing, dumping and turning for return			5 Min		
iv) Waiting time, unforeseen contingencies etc			0 Min		
Total			0 Min		
a) Labour			6 Min		
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)					23.23
Cost for 2.25 cum = a+b+c+d					410.38
Rate per cum = (a+b+c+d)/ 2.25					182.39
Note:- Unloading will be done manually.					
1.	Supplying 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 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)				322.27
	Total (A+B+C) -				1810.36
	Add 1% Labour Cess (A+B+C)				18.10
	Add 12% GST (A+B+C)				217.24
	Add 10% cost of Material for Seigniorage Fee		1	101.70	101.70
	Total Cost per Cum			Rs.-	2147.41

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Inspection Report for Flood Damage Works

1. Name of P.W.D.

Executive Engineer, R.W.D., Dhaka

2. Name of Block Chiraiya

3. Name of Road - Motihazi Dhaka P.W.D. road to Katkhuiya
(A) For Road

4. Damage Location/Chainage :-

5. Damage Length :- 108.0m

6. Nature of Damage:- Water logging.

7. Details of Restoration Works:-

(a) Material being used in Restoration works:-

Brick bats

(b) Equipments/ Tools being used in Restoration works:-

(c) Procedure taken up in Restoration works:-

Departmental

(d) Restored Length: 108.0m

Signature of Inspecting officer
(Executive Engineer)

R.W.D., W.D.

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