



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 :- Bankatwa

District :- East Champaran

Name of Road - Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Bagha to Nimuiya Via Shekhauna

Length - 5.00 K.M

ESTIMATED COST :- 874000.00 Lakh

SUBMITTED BY:

**EXECUTIVE ENGINEER,
RWD WORKS DIVISION, DHAKA**

तकनिकी प्रतिवेदन

पथ का नाम :- बगडा री निमुइमा भाया शेरकोना तक (5.0km)

प्रखंड का नाम :- वनक2वा

शीर्ष :- M/R 3054

प्राक्कलित राशि :- 8,74,000.00

अनुरक्षण अवधि :- M/R 3054 री निर्माणधीन

प्रस्तुत प्राक्कलन बगडा री निमुइमा भाया शेरकोना में अतिवृष्टि / बाढ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 8,74,000.00 है। प्रस्तुत प्राक्कलन सचिव, ग्रामीण कार्य विभाग, पटना के पत्रांक-2254 दिनांक-30.06.2020 के निर्देशानुसार तैयार किया गया है पथ में अतिवृष्टि/बाढ 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।

23/12/2020

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा वनक2वा

23/12/2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल वनक2वा

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 Bagha to Nimuiya Via Shekhauna

Head - 2245 Length- 5.0 Km

Sl No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		Labour for laying dry graded Jhama Khos 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.	cum	As Per	Appendix 1			407 394.66	2147.41	873995.87 847496.83
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	0	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 strecture graded and comected as per Technical Specification	M3					0	400.59	0.00
TOTAL (in Re.)									873995.87	847,496.83
Say Total Rs-									874000.00	8,47,500 =

[Signature]
23/12/2020
Junior Engineer,
Rural Works Department,
Works Section, Dhaka
Bankatwa

[Signature]
23/12/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division, Dhaka
Bankatwa

[Signature]
23/12/2020
Executive Engineer,
Rural Works Department,
Works Division, Dhaka
Say 8,47,500 =

Post Facto T.A./TS is accorded for Rs. 8,47,500 =
 (.....crore.....Eight.....lacs.....Forty Seven
thousand
Five.....hundred.....) only.

[Signature]
12/5/2021
S.E. (R.W.D.)
works Circle
Motihari
26-3-21

Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Bagha to
Nimuiya Via Shekhauna

Appendix - I

Measurement for surfacing the Breach with Brick Bats

Sl. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	34.100	0.185	$\frac{3.700+4.300}{2}$	$\frac{0.500+0.600}{2}$	407.000
Total					407.000

394.66

Junior Engineer
Rural Works Department,
Works Section, Bankatwa

Asistant Engineer
Rural Works Department,
Works Sub Division, Bankatwa

Executive Engineer,
Rural Works Department,
Works Division, Dhaka

T.A./T S is accorded for Rs.....
(.....crore.....lacs.....thousand
.....hundred.....) only.

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

6.6.1
WRD
Bihar

BRICK BATS PITCHING MANUAL MEANS

Labour for laying dry graded Jhama Khoa 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/I.

Unit :- Per Cum

Taking Output = 2.832 Cum

Unskilled Mazdoor

Add 6% Overhead Charges

Nos.

3

287.00

861.00

Rate for 2.832 Cum

51.66

Rate per Cum (Rs.) -

912.66

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 h

hour

0.833

549.10

457.40

Time taken for empty return trip hour 0.500

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

Say Rs. -

21.55

23/12/2020
J.E

1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum			
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excluding for haulage and return trip			
	Unit = cum			
	Taking output = 2.25 cum			
	Time required for			
	i) Positioning of Tractor at loading point		1 Min	
	ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		5 Min	
	iii) Maneuvering, reversing, dumping and turning for return		0 Min	
	iv) Waiting time, unforeseen contingencies etc		0 Min	
	Total		6 Min	
	a) Labour			
	Mate	day	0.03	305.00
	Mazdoor for loading and unloading	day	0.72	287.00
	b) Machinery			
	Tractor 3.60 tonnes capacity	hour	0.1	549.10
	Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1403.00
	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.	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 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


 23/12/2020
 JE

Inspection Report for Flood Damage Works

Date

Name of P.W.D. Executive Engineer, R.W.D., Dhaka

Name of Block Bankatwa

Name of Road - Bagaha to Nimura via Shekhaura

(A) For Road

Damage Location/Chainage :- 3100 m

Damage Length :- 185.0 m

Name of Damage:- water logging

Details of Restoration Works:-

(i) Material being used in Restoration works:- Brick bials

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

(iii) Procedure taken up in Restoration works:- Departmental

(iv) Restored Length: 185.0 m

Signature of Inspecting officer
(Executive Engineer)

R.W.D., W.D.

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