

Inspection Report For Flood Damage Works

Date :-

1. Name of PIUs – Executive Engineer, R.W.D. (W.D.) Motihari
2. Name of Block - Dhaka
3. Name of Road – Bhandar Patahi Road to Basahiya Jane wali Road

(A) For Road

1. Damage Location/ Chainage :-
2. Damage Length :- ~~130 M~~ 105 M ^{By Dhaka}
3. Nature of Damage :- Flood & Heavy Rain
4. Details of Restoration Works.
 - (i) Material being used in Restoration Works :- Bricks Bats
 - (ii) Equipments/Tools being used in Restoration Works :-
 - (iii) Procedure taken up in Restoration Works :-
 - (iv) Restored Length :- ~~130 M~~ 105 M ^{By}

Satisfactory

Aug
15/3/22
7E

for
15/3/22

Y. K. Jaiswal
15/3/22

Signature of Inspecting Officer
(Executive Engineer)
R.W.D., (W.D.) Motihari



ग्रामीण कार्य विभाग

Rural Works Department ,Govt.of Bihar

PLAN HEAD-FDR

2021-2022-

YEAR ~~2022-2023~~

DISTRICT;-EAST CHAMPARAN

BLOCK;-DHAKA

Estimate for Repair of Road breaches (Damaged by Flood)

For Motorability in Bhandar Patahi Road To Basahiya Janewali
Road

ESTIMATED COST;-Rs. ~~877800.00~~ 805600.00

LENGTH:- KM

Submitted by:

Executive Engineer

RWD WORKS DIVISION

DHAKA

F.D.R (2021-22)

तकनीकी प्रतिवेदन

पथ का नाम :- अंडाई पन्नी रोड ई बसस्टॉप जालेवाली पन्नी

प्रमंड का नाम :- ~~MR 3054~~ डी.का

शीर्ष :- MR 3054

प्राक्कलित राशि :- 877800/- 805600/-

अनुरक्षण अवधि :- अनुरक्षण

प्रस्तुत प्राक्कलन अंडाई पन्नी रोड ई बसस्टॉप जालेवाली पन्नी में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि 877800/- 805600/- है। प्रस्तुत प्राक्कलन सचिव, ग्रामीण कार्य विभाग, पटना के पत्रांक-1937 दिनांक-07.07.2024 के निर्देशानुसार तैयार किया गया है पथ में अतिवृष्टि/बाढ़ के कारण क्षतिग्रस्त पथांशों में brick, bal. 4 H.P 1000 mm से भरने का प्रावधान किया गया है।

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

K. Chakraborty
20/11/24

जननीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा डी.का

S. K. Singh
20/11/24

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल डी.का

S. K. Singh
20/11/24

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल डी.का

Name of work :- Estimate for Repair of Road breaches (caused by Flood) for Motorability in
Bhandar Patahi Road To Basahiya Road

HEAD:- FDR Length:- KM

SI No	Name of Item	Unit	QTY	Rata		Amount
				M3	Rs	Rs
1.	Labour for laying dry graded jhama khoa Or stone filter under Brick Pitching in Slope or apron including light ramming Etc. all complete as per approved design. Specification and direction ofE/I	M3	408.30	1938.85 2053.84	791649.00 841261.00	
2.	Providing and laying RCC NP3 for culaverts On first class bedding of granular material In single/dubal row including fixing collar with CM 1:2 but excluding excavation.....E/I	M-500	5.00	2781.37 7297.86	13907.00 36489.00	
3.	Sand filling with Approved Materials Seposited at site from road way cutting and excavation from drain and foundation of other strecture graded and compected as per Technical specification.....E/I	Bag				
				Total(in Rs 877750.00		805556.00

Say Total Rs 877800.00

Rs. 805500.00
805600.00

[Signature]
J.E

[Signature]
20/11/21
A.E

[Signature]
21.11.21
E.E

Post facto

IA/T/S is accorded for Rs. 8,05,600.00

(.....) crore Eight lacs Five

hundred Only

[Signature]
S.E. (R.W.D.)
works Circle
Motihari

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for
Bhandar Patahi Road To Basahiya Janewali Road

Appendix -1

Appendix

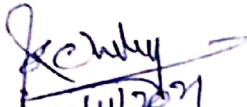
Measurement for surfacing the Breach with.....Filling					
Sl.No	Chainage Km	Length(m)	Avg.Width (M)	Avg.Depth (M)	Quantity(M)
	0.650	10.00	3.75	1.300	48.75
	2.000	95.00	$3.75+4.25/2$	$0.700+1.200/2$	361.00
Total					409.75

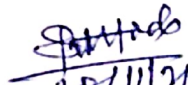
LESS For H.P Qty

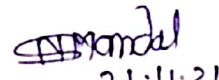
$$2 \times 0.7857 \times (1.230)^2 \times 0.612$$

(-) 1.45

Total 408.30


20/11/2021
J.E


20/11/21
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21.11.21
E.E

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood)for
Bhandar Patahi Road To Basahiya Janewali Road

Appendix -1

Measurement for surfacing the Breach with.....Filling

Sl.No	Chainage Km	Length(m)	Avg.Width (M)	Avg.Depth (M)	Quantity(M)
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Home Pipe 1000mm Dia

2 No x	2.50 m	5.00			
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Total	5.00 Rm				
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20/11/21

A.E

[Signature]
21.11.21

E.E

BRICK BATS PITCHING MANUAL MEANS

6.6.1 WRD Bihar	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	Nos.	3	304.00
	Unskilled Mazdoor			912.00
	Add 0% Overhead Charges			0
	Rate for 2.832 Cum			912.00
	Rate per Cum (Rs.) -			322.03
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	612.00
	Time taken for empty return trip.	hour	0.400	612.00
	b) Overhead charges @ 0.00 on (a)			408.20
	c) Contractor's profit @ 0.1 on (a+b)			244.80
	cost for 36 t km = a+b+c			0.00
	Rate per t.km = (a+b+c)/36			0.00
	Say Rs. -			0.00
	(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	hour	0.833	612.00
	Time taken for empty return trip hour 0.500	hour	0.500	612.00
	b) Overhead charges @ 0.06 on (a)			509.80
	c) Contractor's profit @ 0.1 on (a+b)			306.00
	Cost for 36 t .km = a+b+c			0.00
	Rate per t.Km = (a+b+c)/36			0.00
	Say Rs. -			815.80
				22.66
				22.66

1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum			
	Placing Tractor at loading point, loading with front loader, dumping, turning for 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	321.00
	Mazdoor for loading and unloading	day	0.72	304.00
	b) Machinery			
	Tractor 3.60 tonnes capacity	hour	0.1	612.00
	Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1594.00
	c) Overhead charges @ 0.00 on (a+b)			0.00
	d) Contractor's profit @ 0.1 on (a+b+c)			0.00
	Cost for 2.25 cum = a+b+c+d			422.01
	Rate per cum = (a+b+c+d)/ 2.25			187.56
Note:-	Unloading will be done manually.			
1.	Supplying for Brick Bats (with OH)			
A.	Basic Rate of Brick Bats	Per Cum	987.00	987.00
	Add overhed Charges	0%		0.00
	Total -			987.00
	Surface Lead	KM	7	
	Unsurface Lead	KM	1	
	Factor (3.6/2.25)	Cum	1.60	
B.	Carriage (with OH)			
	$(1.6 \times 7 \times 18.14) + (1.6 \times 1 \times 22.66) + 187.56$			426.98
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)			322.03
	Total (A+B+C) -			1736.01
	Add 1% Labour Cess (A+B+C)			17.36
	Add 12% GST (A+B+C)			208.32
	Add 10% basic rate of material for seigniorage fee	1	987.00	98.70
	Total Cost per Cum		Rs.-	2060.40

20/11/21
 A.E

1100

Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row
 Providing and laying reinforced cement concrete pipe NP3 for Cross Drainage

B.

1000 MM DIA

Unit = m

Taking output = 7.5 m

(3 pipes of 2.5 m length each)

a) Material

iii) RCC pipe NP 3 pipe

b) Labour

Mate

Mason (1st class)

Mazdoor (Unskilled)

c) Overheads @ 6% on (a+b)

d) Contractor's profit @ 0% on (a+b+c)

Cost for 7.5m = (a+b+c+d)

Rate per m = (a+b+c+d)/7.5

Carrage cost per M

Total

Add Labour Cess 1%

Add GST 12%

Add 10% cost of material for seigniorage fee

Total Cost

m

7.50

m

0.09

day

0.25

day

2.00

day

5565.00

321.00

408.00

304.00

41737.50

28.89

102.00

608.00

0.00

0.00

42476.39

5663.52

302.29

5965.81

59.66

715.90

556.50

7,297.86

Placed
 20/11/21
 A.E