



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 Balua Tola to Balua Shekh Toli Road

Length - 0.800 K.M

ESTIMATED COST :- 494000.00 Lakh

SUBMITTED BY:

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

तकनीकी प्रतिवेदन

पथ का नाम :- बलुआ रें बलुआ खेखोली पथ (0.800 Km)

प्रखंड का नाम :- चिरगा

शीर्ष :- GTSN

प्राक्कलित राशि :- 4,94,000.00

अनुरक्षण अवधि :- अनुरक्षण अवधि के अंदर
प्रस्तुत प्राक्कलन बलुआ रें बलुआ खेखोली पथ में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... रु0 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।

23/12/2020

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा चिरगा

23/12/2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल चिरगा

23/12/2020

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, ठाका

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Balua Tola to Balua Shekh Toli Road

Head - 2245 Length- 0.800 km

Sl No	Item No	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		Labour for laying dry graded dhama Khoa or stone filter under Brick Pitching or Boulder Pitching in slope or upon including light ramming etc. all complete as per approved design, specification and direction of E.I.	cum	As Per	Appendix 1			230.000 207	2147.41	493904.30 4,44,513 = 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 compacted as per Technical Specification	M3	0				0	400.59	0.00
TOTAL (in Re.)										493904.30
Total Rs-										494000.00

23/12/2020
Junior Engineer,
Rural Works Department,
Works Section, Dhaka

Chiraiya

23/12/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division, Dhaka

Chiraiya

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

Net Factor T.A.T/S is accorded for Rs. 4,44,500 = 0
(..... crore..... Four lacs Forty Four
..... thousand
..... Five hundred) only.

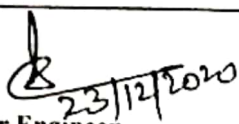
Koripal
12/5/2021
S.E. (R.W.D.)
works Circle
Motihari

29-4-21

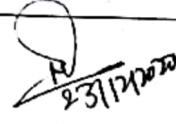
Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Balua Tola to
Balua Shekh Toli Road

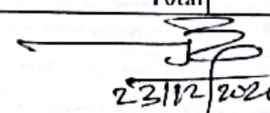
Appendix - I					
Measurement for surfacing the Breach with Brick Bats					
Sl. No.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	0.700	20.000	$\frac{4.000+7.500}{2}$	2.000 1.85	230.000 207
Total					230.000


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Rural Works Department,
Works Division, Dhaka

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			
	Unskilled Mazdoor	Nos.	3	287.00
	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
	Time taken for empty return trip.	hour	0.400	549.10
	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
	Time taken for empty return trip hour 0.50	hour	0.500	549.10
	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			
Placing Tractor at loading point, loading with front loader, 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					
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					
Mazdoor for loading and unloading	day	0.03	305.00	9.15	
b) Machinery	day	0.72	287.00	206.64	
Tractor 3.60 tonnes capacity					
Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.1	549.10	54.91	
c) Overhead charges @ 0.06 on (a+b)	hour	0.083	1403.00	116.45	
Cost for 2.25 cum = a+b+c+d				23.23	
Rate per cum = (a+b+c+d)/ 2.25				410.38	
Note:-	Unloading will be done manually.			182.39	
1. Supplying for Brick Bats (with OH)					
A.	Basic Rate of Brick Bats	Per Cum			
	Add overhed Charges		1017.00	1017.00	
	Total -		6%	61.02	
				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 / Chiraiya

23/12/2020
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Inspection Report for Flood Damage Works

1.

Name of PUU: Executive Engineer, RWD, Dhaka

Name of Block: Chiraiya

Name of Road: Bahua tola to Bahua shekhtoli
(A) For Road

Damage Location/Chainage: 700m CH

Damage Length: 20.0m

Nature of Damage:

Water logging

Details of Restoration Works:-

(i) Material being used in Restoration works:-

Brick bats

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

(iii) Procedure taken up in Restoration works:-

Departmental

(iv) Restored Length: 20.0m

Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D.

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