

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 **DHAKA TO PAKRIDAYAL**

Length **8.0 Km**

ESTIMATED COST :- **28060000**
29,15,600.00

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION, **Dhaka**

F.D.R (2020-21)

तकनीकी प्रतिवेदन

पथ का नाम :- ढांका से पकड़ीदमाल पथ

पथ का नाम :- चिरैया

शीट :- 3054

प्रकलित राशि :- 29.156 lac
29.060 lac.

अनुरक्षण अवधि :- अनुरक्षण अकाउंट के अंदर

प्रस्तुत प्राक्कलन ढांका से पकड़ीदमाल पथ में अतिवृष्टि बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 29.15600/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

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

22/12/2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा चिरैया

22/12/2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल चिरैया

22/12/2020

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, ढांका

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Dhaka Pakeridge Road

Head - 2245 Kheratari-Bheriyahi
Length- 8.0 Km

Item No.	Name of Item	unit	S	Length	Width	Height	Qty	Rate	Amount
	Labour for laying dry graded thama khua 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			1357.747 1306.747	2147.41	2915540.00 2806122.00
	Procuring and Laying reinforced cement concrete pipe 12" 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			
	Sand filling with Approved Materials deposited at site from roadway cutting and excavation from drain and foundation of other structure graded and compacted as per Technical Specification	M3	0						
TOTAL (in Re.) 2915540.00									2906122.00
Total Rs. 2915540.00									2906122.00

22/12/2020
Junior Engineer,
Rural Works Department,
Works Section, Chiraiya

24/12/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division, Chiraiya

22/12/2020
Executive Engineer,
Rural Works Department,
Works Division, Dhaka

Post Facto T.A.T/S is accorded for Rs. 28,06,000 =

(.....) crore Twenty Eight lacs Six

..... hundred only.

26/03/2021
S.E. (R.W.D.)
works Circle
Motihari
Shri
26-3-21

DHAKA TO PAKRIDAYAL

Appendix - 1

Measurement for surfacing the Breach with Brick Bats Filling

Sl. No.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	0.400	15.000	3.000	0.400	18.000
		6.500	2.100	0.400	5.460
		7.000	2.600	0.250	4.550
		3.500	1.500	0.350	1.838
		14.000	3.800	0.300	15.960
		8.000	3.500	0.300	8.400
		3.600	1.900	0.350	2.394
		3.600	1.900	0.350	2.394
2	0.500	6.000	3.000	0.350	6.300
		6.100	2.000	0.300	3.660
		2.600	1.900	0.300	1.482
		2.100	2.000	0.250	1.050
		3.800	2.600	0.300	2.964
3	0.600	4.600	2.000	0.250	2.300
		5.000	1.600	0.300	2.400
		11.500	2.000	0.300	6.900
4	0.750	5.000	2.100	0.350	3.675
		4.600	2.300	0.300	3.174
		2.800	1.900	0.300	1.596
5	0.800	3.000	2.000	0.300	1.800
		8.200	2.000	0.300	4.920
		2.000	1.900	0.300	1.140
		2.000	2.000	0.250	1.000
		2.000	2.000	0.200	0.800
		2.000	2.000	0.250	1.000
		3.200	2.000	0.350	2.240
6	0.900	2.700	1.200	1.300	4.212
		1.500	1.600	2.500	6.000
		6.100	1.500	2.500	22.875
		11.300	$3.000 + \frac{4.500}{2}$	$\frac{2.25 + 4.000}{2}$	± 35.600 122.60
		16.000	$4.500 + \frac{6.500}{2}$	$\frac{2.25 + 4.500}{2}$	± 24.000 286.0

7	1.000	3.800	2.000	3.000	22.800
		6.200	3.000	3.500	65.100
		2.100	1.300	3.000	8.190
		6.300	1.200	2.400	18.144
8	1.100	2.000	1.000	2.000	4.000
		2.000	1.000	2.000	4.000
9	1.400	8.500	1.000	2.000	17.000
		3.000	2.500	3.500	26.250
10	5.200	6.100	2.200	0.250	3.355
11	5.500	2.300	1.900	0.000+0.55	0.000 2.39
		3.000	2.000	0.300	1.800
		2.500	2.000	0.300	1.500
12	5.700	2.600	1.800	0.300	1.404
		3.500	2.000	0.300	2.100
13	6.400	95.000	$3.500+4.00/2$	$0.450+0.550/2$	178.120
14	6.850	18.000	3.000	0.350	18.900
15	6.900	132.000	4.000	0.600	316.800
		31.000	4.000	$0.500+0.600/2$	68.200
TOTAL					1357.747

1306.747

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

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

[Signature]
22/12/2020
Executive Engineer,
Rural Works Department,
Works Division... *Dhaka*

BRICK BATS PITCHING MANUAL MEANS

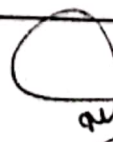
6.6.1 WRD Bihar	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulder Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I.			
	Unit :- Per Cum			
	Taking Output = 2.832 Cum			
	Unskilled Mazdoor	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 0.500	0.500	549.10
	b) Overhead charges @ 0.06 on (a)			43.92
	Cost for 36 t .km = a+b+c			840.34
	Rate per t.Km = (a+b+c)/36			23.34
	Say Rs. -			21.55
				21.55

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22/12/20
AB

IRCD		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.			
I.		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
		Total Cost per Cum			2147.41
				Rs.-	


 22/12/2020
 JE


 22/12/2020

Inspection Report for Flood Damage Works

Date

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

2. Name of Block Chiraiya

3. Name of Road - Dhaka Pakaridyal Road

(A) For Road

Damage Location/Chainage :-

Damage Length : 766.16 M

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

766.16 M

Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D.

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Scanned with CamScanner