



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 **DIPAHI TO MADHOPUR**

Length - **2.0 Km**

ESTIMATED COST :- **26,10,000.00**

SUBMITTED BY:

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

तकनीकी प्रतिवेदन

पथ का नाम :- दोपंही खे गाव्हीपुर

प्रखंड का नाम :- चिरैया

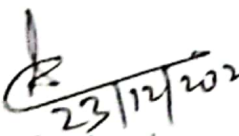
शीर्ष :- MNP

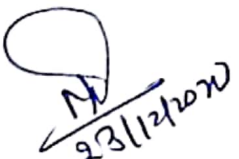
प्राक्कलित राशि :- 26.10 Lac

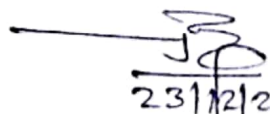
अनुरक्षण अवधि :- अनुरक्षण अवधि से बाहर

प्रस्तुत प्राक्कलन में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 26.10.000/- ₹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/बाढ़ के कारण क्षतिग्रस्त पथांश में Brick balls से भरने का प्रावधान किया गया है।

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


23/12/2020
हनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा चिरैया


23/12/2020
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल चिरैया


23/12/2020
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, दाक

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Dipahi to Madhopur Road

Est. No. 2245 Length: Kharatari-Bheriyahi

Item No.	Name of Item	unit	No	Length	Width	Height	Qs.	Rate	Amount
	Labour for laying dry graded thama khwa or stone filter under track pitching or Boulder pitching in slope or masonry including light ramming etc. all complete as per approved design, specification and direction of I/A	cum	As Per	Appendix 1			4216.280 1137.53	2147.41	26,09,704.00 24,42,743.29
	Supply and laying reinforced cement concrete pipe 12" dia. culverts on first class bedding of granular material or 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 Rs.)									26,09,704.00
Total Rs.									26,40,000.00

23/12/2020
Junior Engineer,
Rural Works Department,
Works Section... Chiranya

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

23/12/2020
Executive Engineer,
Rural Works Department,
Works Division... Dhak

Estt Facts T.A./R.G. is accorded for Rs. 24,42,700/-
(.....) crore Twenty Four lacs Forty Two thousand
Seven hundred only.

26/03/2021
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

Dipahi to Madhopur

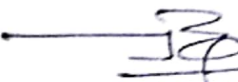
Appendix - 1

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	1.400	100.000	3.800	0.250	95.000
		22.000	3.900	0.350	30.030
2	1.522	100.000	$3.75+4.00/2$	$0.600+0.800/2$	271.250 232.50
		100.000	$3.8+4.000/2$	$0.600+0.800/2$	273.000
		100.000	$3.8+4.000/2$	$0.600+0.800/2$	273.000 234.00
		48.000	$3.8+4.000/2$	$0.600+0.800/2$	273.000
				TOTAL	1215.280 1137.53


23/12/2020
Junior Engineer,
Rural Works Department,
Works Section..... Chiraiy 9


23/12/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division..... Chiraiy 9


23/12/2020
Executive Engineer,
Rural Works Department,
Works Division..... Dhak 9

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	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

23/12/2020
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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 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)			410.07
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39			
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
			Rs.-	2147.41
	Total Cost per Cum			

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23/12/2020
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Inspection Report for Flood Damage Works

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DATE

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

2. Name of Block Chiraiya

3. Name of Road - Dipahi to Madhospur
(A) For Road

4. Damage Location/Chainage :- 1400m to 1522 M

5. Damage Length :- 470m

6. Nature of Damage :- Water logging

7. 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 470.0m

[Signature]
Signature of Inspecting officer
(Executive Engineer)

R.W.D., W.D.