



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 Baidhnathpur Saroghar PMGSY Road to Sariswa Road
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Length - 3.739 K.M

ESTIMATED COST :- 2469900.00 Lakh

SUBMITTED BY:

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

तकनीकी प्रतिवेदन

पथ का नाम :- वैद्यनाथपुर सरौजद PMGSY रोड से शरिसावा पथ

प्रखंड का नाम :- चिरैया

शीर्ष :- PMGSY (मुरगमंजौ) ग्राम सड़क योजना

प्राक्कलित राशि :- 24,69,900=00

अनुरक्षण अवधि :- अनुरक्षण अवधि 5 अंकर

प्रस्तुत प्राक्कलन वैद्यनाथपुर सरौजद PMGSY रोड से शरिसावा 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 चिरैया

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

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

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Baidhnathpur Saroghar PMGSY Road to Sariswa Road

Head - 2245 Length- 3.739 KM

Sl No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		Labour for laying dry graded Jhama Khola 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					
					I			1150.155 1053.77	2147.41	2469854.35 22,62,876.20
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 comected as per Technical Specification	M3	0				0	400.59	0.00
TOTAL (in Re.)										2469854.35
Total Rs-										2469900.00

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
22,62,800.20

Post Facto T.A.T/S is accorded for Rs. *22,62,800.20*
(.....crore Twenty Two lacs Sixty Two thousand
Eight hundred) only.

12/5/21
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 Baidhnathpur Saroghar PMGSY Road to Sariswa Road

Appendix - I

Measurement for surfacing the Breach with Brick Bats

L. o.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	1.100	26.000	$\frac{0.400+1.000}{2}$	$\frac{0.900+1.500}{2}$	21.840
2	1.130	9.000	5.000	3.000 2.5	135.000 112.50
		15.000	$\frac{4.500+8.000}{2}$	3.000 2.5	281.250 234.37
		15.000	$\frac{4.400+7.000}{2}$	1.000	85.500
		19.000	$\frac{4.50+6.500}{2}$	1.000	104.500
3	2.700	16.000	$\frac{6.000+7.500}{2}$	2.500 2.25	270.000 243.00
		7.000	6.500	0.450	20.475
		33.000	6.000	0.500	99.000
		7.500	$\frac{5.500+6.000}{2}$	0.500	21.560
		40.000	$\frac{5.000+5.600}{2}$	$\frac{0.400+0.500}{2}$	94.500
		9.000	$\frac{5.000+5.500}{2}$	$\frac{0.300+0.400}{2}$	16.530
Total					1150.155

Junior Engineer

Rural Works Department,
Works Section, Dhaka

Chiraiya

Asistant Engineer

Rural Works Department,
Works Sub Division, Dhaka

Chiraiya

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			
	Add 6% Overhead Charges	Nos.	3	287.00
	Rate for 2.832 Cum			51.66
	Rate per Cum (Rs.) -			912.66
				322.27
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)			219.64
	cost for 36 t km = a+b+c			35.15
	Rate per t.km = (a+b+c)/36			621.04
	Say Rs. -			17.25
				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
	Time taken for empty return trip hour 0.500	hour	0.500	549.10
	b) Overhead charges @ 0.06 on (a)			457.40
	Cost for 36 t .km = a+b+c 840.34			274.55
	Rate per t.Km = (a+b+c)/36 23.34			43.92
	Say Rs. -			775.87
				21.55
				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			
	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	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.	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	101.70
	Total Cost per Cum		Rs.-	2147.41


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Inspection Report for Flood Damage Works

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1. Name of P.U.

Executive Engineer, R.W.D., Dhaka

2. Name of Block

Chiraiya

3. Name of Road - Baidyanathpur Sarangarh PMGSY road to Sariswa Road
(A) For Road

4. Damage Location/Chainage :- 1100 M, 1130 M & 2700 M CH

5. Damage Length :- 215.50 M

6. Nature of Damage:-

Breaches with logging

7. Details of Restoration Works:-

(a) Material being used in Restoration works:-

Brick bats

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

(c) Procedure taken up in Restoration works:-

Departmental

(d) Restored Length:-

215.50 M

Signature of Inspecting officer
(Executive Engineer)

R.W.D., W.D.

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