



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 Mishrauliya Pakariya REO Path to Sunderpur Khap Road.

Length - 4.10 K.M

ESTIMATED COST :- 395200.00 Lakh

SUBMITTED BY:

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

तकनीकी प्रतिवेदन

पथ का नाम - मिश्रालिया पकरी REO रोज के सुन्दरपुर राप

प्रखंड का नाम :- चिरैया

शोध :- MR 3054 FDR

प्राक्कलित राशि :- 3,95,200.00

अनुरक्षण अवधि :- अनुरक्षण अवधि के अन्तर्गत
प्रस्तुत प्राक्कलन मिश्रालिया पकरी REO रोज के सुन्दरपुर राप पथ में अतिवृष्टि
/ बाढ़ से क्षतिग्रस्त पथांशों यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ...
3,95,200.00 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
पथांशों में Brick bats से भरने का प्रावधान किया गया
है।

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

22/12/2020
कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा चिरैया

22/12/2020
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल चिरैया

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

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Mishrauliya Pakariya REO Path to Sunderpur Dil Mohamad Road

Head - 2245

Length-

Sl No	Item No	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		Labour for laying dry graded Jhama Khon or stone filter under Brick Pitching or Boulder Pitching in slope or surface including light ramming etc. all complete as per approved design, specification and direction of E/I.	cum	As Per	Appendix			184.020 141.27	2147.41	395166.39 3,03,365
		Provided 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	0	2.50M	0	0	0	4744.43	0.00
		Sand filling with Approved Materials seposited at site and 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.)										395166.39
Total Rs-										395200.00

[Signature]
22/12/2020
Junior Engineer,
Rural Works Department,
Works Section, Chauriya

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

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

Post facto T.A./D.S is accorded for Rs. 3,03,400 = w
(.....crore.....Three lacs.....three thousand
.....Four hundred.....) only.

[Signature]
12/5/2021
S.E. (R.W.D.)
works Circle
Motihari
[Signature]
29-4-21

Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Mishrauliya
Pakariya REO Path to Sunderpur ~~Dil Mohamad Road~~

Khap

Appendix - I

Measurement for surfacing the Breach with Brics Bat Filling

Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1650 Km	$\frac{1,700+10,300}{2}$	$\frac{1,000+8,500}{2}$	$\frac{4,700+3,500}{2}$	$\frac{167,430}{124.68}$
	8,200	$\frac{0,600+1,000}{2}$	$\frac{0,500+0,900}{2}$	4,590
	7,500	$\frac{0,750+1,000}{2}$	$\frac{0,500+0,900}{2}$	4,590
	7,800	$\frac{0,600+1,400}{2}$	$\frac{0,600+1,300}{2}$	7,410
Total				184,020

141.27

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

27/12/2020
Assistant Engineer
Rural Works Department,
Works Sub Division...

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

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 h	hour	0.833	549.10	457.40
	Time taken for empty return trip hour 0.500	hour	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

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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)			
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.39$			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			101.70
	Total Cost per Cum			Rs.- 2147.41

22/12/2019

22/12/2019
AB

Inspection Report for Flood Damage Works

Name of P.W.D. Executive Engineer, R.W.D. Dhaka
Name of Block Chiraiya
Name of Road Mishrauliya Pakariya R.E.O. road to Sundarpur Chap
(A) For Road
Damage Location/Chainage :- 1.650 Km
Damage Length :- 31.0 m
Nature of Damage :- water logging
Details of Restoration Works:- Departmental
Material being used in Restoration works:- Brick bats
Equipments/ Tools being used in Restoration works:-
Procedure taken up in Restoration works:- Departmental
Restored Length 31.0 m

Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D.

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