



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 Sirauna to Mahmadi Via Harinarayana Road

Length - 4.200 Km

ESTIMATED COST :- 2435700.00 Lakh

SUBMITTED BY:

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

तकनीकी प्रतिवेदन

पथ का नाम :- सिरौना से महमदी गाँव शरीनारायण पथ
4.20 Km

प्रखंड का नाम :- चिरैया

शीर्ष :- MR 3054 (New Maint. Policy)

प्राक्कलित राशि :- 24,35,700/-

अनुरक्षण अवधि :- निर्माणाधीन

प्रस्तुत प्राक्कलन सिरौना से महमदी गाँव शरीनारायण पथ में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ...
...रु० 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,.....

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Sirauna to Mahmadi Via Harinarayana Road

Head - 2245 Length- 4.20 km

Sl No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		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.	cum	As Per	Appendix			1134.210 1038.38	2147.41	2435678.32 22,29,983=
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 Appoved Materials sepositated at site from roadway cutting and excavation from drain and foundation of other strecture graded and compected as per Technical Specification	M3	0				0	400.59	0.00
TOTAL (In Re.)										2435678.32
Total Rs-										2435700.00

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

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

23/12/2020
Executive Engineer,
Rural Works Department,
Works Division, Dhaka
22,29,983=

Post Facto T.A./TS is accorded for Rs. 22,30,000=
(.....crore Twenty Two lacs Thirty thousand
.....hundred) only.

12/1/2021
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 Sirauna to Mahmadi Via Harinarayana Road

Appendix - I

Measurement for surfacing the Brench with Brick Bats

Sl. No.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	1.050	10.000	$\frac{2,000+3,500}{2}$	0.900	24.750
		10.000	$\frac{2,000+4,000}{2}$	1.500	45.000
		10.000	$\frac{2,000+4,100}{2}$	2.100	64.050
		7.000	$\frac{2,500+4,200}{2}$	2.000	46.900
		3.000	$\frac{2,000+1,000}{2}$	1.200	5.400
3	1.860	10.000	$\frac{2,500+6,500}{2}$	4.000 3.75	180.000 168.75
		10.000	$\frac{2,500+6,500}{2}$	4.100 3.60	184.500 162.0
		3.500	$\frac{3,500+7,000}{2}$	4.200 3.75 3.50	22.170 68.90 64.31
4	1.890	10.000	$\frac{2,000+6,000}{2}$	4.000 3.70	160.000 148.0
		10.000	$\frac{2,500+6,000}{2}$	4.150 3.75	176.370 159.37
		9.000	$\frac{2,500+6,500}{2}$	4.200 3.70	170.100 149.85
Total					1134.240

1038.38

[Signature]
23/12/2020
Junior Engineer
Rural Works Department,
Works Section, Dhaka
Chiraiya

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

[Signature]
23/12/2020
Executive Engineer,
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/L.				
	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
J.E/chiraiya

23/11/2020
AE

L/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			
	iii) Maneuvering, reversing, dumping and turning for return			
	iv) Waiting time, unforeseen contingencies etc			
	Total			
	a) Labour			
	Mate			
	Mazdoor for loading and unloading	day	0.03	305.00
	b) Machinery	day	0.72	287.00
	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		Rs.-	2147.41


 23/12/2020
 J.E/Chiraiya


 28/12/2020
 AE

Inspection Report for Flood Damage Works

Name of P.H.E. Executive Engineer, R.W.D. Dhaka

Name of Block Chiraiya

Name of Road - Sirauna to Mahamadi Via Harinarayana Road
(A) For Road

Damage Location/Chainage :- 1050m, 1860m, 1890m

Damage Length :- 92.50m

Nature of Damage:- Breaches water logging

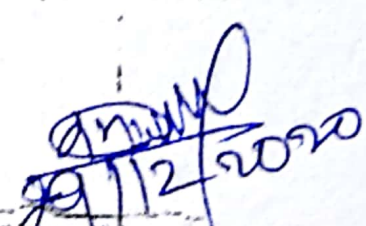
Details of Restoration Works:-

(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 92.50m


Signature of Inspecting officer
(Executive Engineer)

R.W.D., W.D.

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