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 Shikarganj Haraj Nurullahpur to Rasulpur Road

Length - 2.670 K.M

ESTIMATED COST :- 469500.00 Lakh

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION, DHAKA

तकनिकी प्रतिवेदन

पथ का नाम :– शिकारगंज इराज नुरूल्लाहपु से रसूलपुर पथ

प्रखंड का नाम :– निरंगा

शीर्ष :– P M G S Y

प्राक्कलित राशि :– 4,69,500 ⁻00

अनुरक्षण अवधि :– अनुरक्षण प्रवार्ध के अंदर

प्रस्तुत प्राक्कलन शिकारगंज इराज नुरूल्लाहपु से रसूलपुर पथ में अतिवृष्टि /बाढ से क्षतिग्रस्त पथांशों यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 4.69.500ˑ00रू0 है। प्रस्तुत प्राक्कलन सचिव, ग्रामीण कार्य विभाग, पटना के पत्रांक–2254 दिनांक–30.06.2020 के निर्देशानुसार तैयार किया गया है पथ में अतिवृष्टि/बाढ के कारण क्षतिग्रस्त पथांशों में शिकारगंज 6r Brich bats से भरने का प्रावधान किया गया है।

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

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा निरंगा

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल निरंगा

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, ह.ाप.।

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Shikarganj Haraj Nurullahpur to Rasulpur Road Road

Head - 2245   **Length-**   **2.6700 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 I		~~218.610~~ 207.13	2147.41	~~469445.30~~ 4,44,793.20
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. backsfilling. concrete and masonry	M	3	2.50M	0	0	0	4744.43	0.00
3		Sand filling with Appoved Materials seposited 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.)			469445.30
							Total Rs-			~~469500.00~~ 4,44,800/-

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

Post Facto T.A./T S is accorded for Rs. 4,44,800=w

(.............crore. Four lacs. Forty Four 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 Shikarganj Haraj Nurullahpur to Rasulpur Road Road
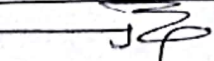
Appendix - I

Measurement for surfacing the Breach with Brick Bats

Sl. No.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	0.037	3.000	4.000	0.300	3.600
?	0.050	5.000	4.000	$\frac{0.300+0.450}{2}$	7.500
3	1.047	3.000	4.500	0.500	6.750
		2.500	$\frac{4.000+5.000}{2}$	0.500	5.620
4	1.450	29.000	$\frac{4.500+5.000}{2}$	$\frac{1.000+1.500+1.750}{3}$ 1.5	~~195.140~~ 183.66
				Total	~~218.610~~ 207.13

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

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

Executive Engineer,
23/12/2020
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/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 0.50(	hour	0.500	549.10	274.55
	b) Overhead charges @ 0.06 on (a)				43.92
	Cost for 36 t .km = a+b+c 840.34				775.87
	Rate per t.Km = (a+b+c)/36 23.34				21.55
	Say Rs. -				21.55

23/12/2020
J.E/Chiraiya

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1.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moorum					
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excludingfor 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		9.15
	Mazdoor for loading and unloading	day	0.72	287.00		206.64
	b) Machinery					
	Tractor 3 60 tonnes capacity	hour	0.1	549.10		54.91
	Front end-loader 1 cum bucket capacity @ 25 cum hour	hour	0.083	1403.00		116.45
	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.	**Suplying 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

23/12/2020
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23/12/2020
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Inspection Report for Flood Damage Works

Name of PIUs : Executive Engineer, RWD, **Dhaka**

Name of Block : **Chiraiya**

Name of Road – **Shikarganj Haraj Nurrulahpur to Rasalpur**

(A) For Road

Damage Location/Chainage :-

Damage Length : **42.50 m**

Nature of Damage.- **Breach / 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: **42.50 m**

Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D.