



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 :-

BANKATWA

District :-

East Champaran

Name of Road - Estimate for Emergent Repair of Road breaches (Damaged by Flood) for **SUNDARPUR TO BELA**

Length - **5.598 km**

ESTIMATED COST :- **14,51,000.00**

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION,

तकनीकी प्रतिवेदन

पथ का नाम :-

सुन्दरपुर ये बेला

प्रखंड का नाम :-

जनकपुर

शीर्ष :-

PMGSY

प्राक्कलित राशि :- 14.51 लाख

अनुरक्षण अवधि :-

निर्माणालय

प्रस्तुत प्राक्कलन सुन्दरपुर ये बेला में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 14.51,000/-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 Brink bbs 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 जनकपुर


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


22/12/2020
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, जनकपुर

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

SUNDARPUR TO BELA

Head - 2245

Length-

Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
	Labour for laying dry graded thama Khua or stone filter under Brick Pitching or Boulder Pitching in slope or against including light ramming etc. all complete as per approved design, specification and direction of E/I.	cum	As Per	Appendix			675.700 646.20	2147.41	14,51,004.30 1387656=
	Procuring and Laying reinforced cement concrete pipe 810 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			
	Sand filling with Approved Materials seposited 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 Re.)									14,51,004.30
Total Rs-									14,51,000.00

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

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

[Signature] 13,87,656=0
22/12/2020
Executive Engineer,
Rural Works Department,
Works Division.....Dhaka
Soy R, 13,87,600=0

Post Facto T.A. is accorded for Rs. 13,87,600=0
(.....crore Thirteen Eighty Seven thousand
Six hundred only.

S.E. (R.W.D.)
works Circle
Motihari

[Signature]
26-3-21

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

SUNDARPUR TO BELA

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	0.320 TO 0.692	50.00	1.300	1.700 1.70	110.500 91.00
		50.00	0.60+2.0/2	1.600	104.000
		50.00	0.60+1.80/2	1.600	96.000
		50.00	0.60+1.80/2	1.500	90.000
		50.00	0.50+1.50/2	1.700 1.5	85.000 75.0
		50.00	0.50+1.50/2	1.500	75.000
		72.00	0.50+1.50/2	1.600	115.200
		TOTAL			675.700 696.20

Junior Engineer,
Rural Works Department,
Works Section..... Bankatwa

Assistant Engineer,
Rural Works Department,
Works Sub Division... Bankatwa

Executive Engineer,
Rural Works Department,
Works Division... Dhaka

L.RCD Loading 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				
b) Machinery				
Tractor 3.60 tonnes capacity				
Front end-loader 1 cum bucket capacity @ 25 cum/hour				
c) Overhead charges @ 0.06 on (a+b)				
Cost for 2.25 cum = a+b+c+d				
Rate per cum = (a+b+c+d)/ 2.25				
Note:- Unloading will be done manually.				
I. Supplying for Brick Bats (with OH)				
A. Basic Rate of Brick Bats				
Add overhed Charges				
Total -				
Surface Lead				
Unsurface Lead				
Factor (3.6/2.25)				
B. Carriage (with OH)				
(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)				
Total (A+B+C) -				
Add 1% Labour Cess (A+B+C)				
Add 12% GST (A+B+C)				
Add 10% cost of Material for Seigniorage Fee				
Total Cost per Cum				


 22/12/20
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BRICK BATS PITCHING MANUAL MEANS				
6.6.1 WRD Bihar	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/I.			
	Unit :- Per Cum			
	Taking Output = 2.832 Cum			
	Unskilled Mazdoor			
	Add 6% Overhead Charges	Nos.	3	287.00
	Rate for 2.832 Cum			861.00
	Rate per Cum (Rs.) -			51.66
				912.66
				322.27
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)			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
	Time taken for empty return trip	hour	0.500	549.10
	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


 22/12/20
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Inspection Report for Flood Damage Works

Date :-

1 Name of PIUs - Executive Engineer, RWD, Dhaka

2 Name of Block - Bankatwa

Name of Road - Sundarpur to Bela

(A) For Road

Damage Location/Chainage :- 320.0m to 696m

3 Damage Length :- 0.372km

4 Nature of Damage:- Flood Damage

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 0.372km


Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D.

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