



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 :- Ghorasahan

District :- East Champaran

Name of Road - Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Purnahiya Jharokhar to Ghorasahan Bazar Via BRC Bhawan.

Length -

K.M

ESTIMATED COST :- 1635800.00 Lakh

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION, DHAKA

तकनीकी प्रतिवेदन

पथ का नाम :- पुरनहिया मरोहर बाजार से कोसलपुर बाजार यातायात की अतिवृष्टि

प्रखंड का नाम :- कोसलपुर

शीर्ष :- MR 3054

प्राक्कलित राशि :- रु० 1635800/-

अनुक्षण अवधि :- निर्धारित

प्रस्तुत प्राक्कलन पुरनहिया मरोहर से कोसलपुर बाजार यातायात की अतिवृष्टि में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 1635800/- 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 Bricks, Boulders and H.P. 1000mm d 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 कोसलपुर

23/12/2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल कोसलपुर

23/12/2020

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल कोसलपुर

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Purnahiya Jharokhar to Ghorasahan Bazar Via BRC Bhawan.

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 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			739.633 709.30	2147.41 -2147.41	1588295.30 1523351.12
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	4	2.50M	0	0	10	4744.43	47444.30
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	400.59	0.00
TOTAL (in Re.)										1635739.60
Say Total Rs-										1635800.00

Junior Engineer,
Rural Works Department,
Works Section, Dhaka
Ghorasahan

Assistant Engineer,
Rural Works Department,
Works Sub Division, Dhaka
Ghorasahan

Executive Engineer,
Rural Works Department,
Works Division, Dhaka

Post Facto T.A./S is accorded for Rs. 16,35,700 = 16
(.....crore Sixteen lacs Thirty Five thousand
Seven hundred) only.

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

Ref No. T.A./S is accorded for Rs. 15,70,800 = Rs.
(..... crore Fifteen lacs Seventy thousand
Eight hundred) only.

~~8/1~~ 18/1-3/2021
S.E. (R.W.D.)
works Circle
Motihari

Sm
19-08-21

Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Purnahiya Jharokhar to Ghorasahan Bazar Via BRC Bhawan.

Appendix - I

Measurement for surfacing the Breach with Brick Bats

Measurement for surfacing the Drench with 1:2:4					
Sl. No.	Chainage Km	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	0.100	4.000	2.100	0.300	2.520
		2.000	1.300	0.100	0.260
2	0.500	6.000	4.000	0.900	21.600
3	0.550	30.000	4.600	0.800	110.400
4	0.600	11.000	4.200	2.300	106.260
		9.000	4.200	2.300 1.5	86.940 56.70
5	0.700	5.000	4.100	0.900	18.450
6	0.740	4.000	4.000	0.500	8.000
7	0.800	7.000	3.900	0.400	154.000
8	0.850	6.000	3.000	0.350	6.300
9	0.900	5.000	2.200	0.300	3.300
10	0.940	20.000	4.200	1.600	134.400
11	0.980	3.000	2.000	0.400	2.400
		2.500	1.400	0.600	2.100
		6.200	1.600	0.400	3.968
		5.500	1.900	0.300	3.135
		20.000	4.200	0.900	75.600
Total					-739.633

56.70

34

709.39

Junior Engineer
Rural Works Department,
Works Section, Dhaka
Ghorasahan

Asistant Engineer
Rural Works Department,
Works Sub Division, Dhaka
Ghorasahan

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

BRICK BATS PITCHING MANUAL MEANS

S.No.	Particulars	Unit	Quantity	Rate	Amount
6.01	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.				
WRD					
Bihar					
	Unit :- Per Cum				
	Taking Output = 2.832 Cum				861.00
	Unskilled Mazdoor	Nos.	3	287.00	51.66
	Add 6% Overhead Charges				912.66
	Rate for 2.832 Cum				322.27
	Rate per Cum (Rs.) -				
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			
	Time taken for empty return trip	hour	0.833	549.10	457.40
	b) Overhead charges @ 0.06 on (a)		0.500	549.10	274.55
	Cost for 36 t .km = a+b+c				43.92
	Rate per t.Km = (a+b+c)/36				775.87
	Say Rs. -				21.55
					21.55

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	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.	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)				
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.39$				
C.	Ramming as per WRD SOR 6.6.1 (with OH)				410.07
	Total (A+B+C) -				322.27
	Add 1% Labour Cess (A+B+C)				1810.36
	Add 12% GST (A+B+C)				18.10
	Add 10% cost of Material for Seigniorage Fee				217.24
	Total Cost per Cum		1	101.70	101.70
				Rs.-	2147.41