



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 Bhangah Road to Sripur Uttarwari Tola Ward No-06, 07, & 08

Length -	K.M
ESTIMATED COST :- 673200.00 Lakh	

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION, DHAKA

तकनिकी प्रतिवेदन

पथ का नाम :- पुरानी मरोहर गंगा रोड के नीचे अरवली गेज रोड नं० 46, 07, 08

प्रखंड का नाम :- कोडागुन

शीर्ष :- MM434

प्राक्कलित राशि :- ₹ 673200.00

अनुरक्षण अवधि :- ~~under tender~~
31/12/20

प्रस्तुत प्राक्कलन पुरानी मरोहर गंगा रोड के नीचे अरवली गेज रोड नं० 46, 07, 08 में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 673200.00 ₹0 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, Bels and H.P. 1000mm dia 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 कोडागुन


23/12/2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल कोडागुन


23/12/2020

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल कोडागुन

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Purnahiya Jharokhar Bhangah Road to Sripur Uttarwari Tola Ward No-06, 07, & 08

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 1			291.365 266.365	2147.41	625680.11 571994.36
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 stricture graded and compected as per Technical Specification	M3					0	400.59	0.00
TOTAL (in Re.)										673124.41
Say Total Rs-										673200.00

23/11/2020
Junior Engineer,
Rural Works Department,
Works Section, Dhaka
Ghorechu

23/11/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division, Dhaka
Ghorechu

23/11/2020
Executive Engineer,
Rural Works Department,
Works Division, Dhaka
2019 6.19, 410/1

Post facto T.A./T.S is accorded for Rs. 6,73,200
(.....crore.....Six lacs Seventy Three thousand
.....Two hundred) only.

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

Rs. 6,19,400.00 is accorded for Rs. 6,19,400.00

.....crore: Sixlacs: nineteen thousand

.....Four hundred only.

S.E. (R.W.D.)

works Circle

Motihari

Don
19-3-21

Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Purnahiya
Jharokhar Bhangah Road to Sripur Uttarwari Tola Ward No-06, 07, & 08

Appendix - I

Measurement for surfacing the Breach with Brick Bats

Sl. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1	0.500	5.000	$\frac{2.500+1.600}{2}$	2.10	21.525
2	0.600	10.000	$\frac{6.000+4.000}{2}$	$\frac{2.5}{3.000}$	$\frac{12.5}{150.000}$
3	0.600	8.000	$\frac{6.500+4.200}{2}$	2.800	119.840
Total					291.365 266.365

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

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

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

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/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 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 840.34				775.87
	Rate per t.Km = (a+b+c)/36 23.34				21.55
	Say Rs. -				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
	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		
	Unsurface Lead	KM	1	
	Factor (3.6/2.25)	Cum	1.60	
B.	Carriage (with OH)			410.07
	(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)			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

Inspection Report for Flood Damage Works

Date :-

1. Name of PIUs - Executive Engineer, RWD, Dhule,

2. Name of Block - Ghoraspur

Name of Road - Pranshi Jherokher Bhaych Road as shown attached
Tola. Ward No. 06, 07, 08

(A) For Road

1. Damage Location/Chainage :-

2. Damage Length :-

3. Nature of Damage:- Water logging

4. 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: 234.

Signature of Inspecting officer
(Executive Engineer)

R.W.D., W.D.

Stamp
28/12/2021
E.E. RWD, Dhule
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