



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 Bhagha Turha Toli Chowk to Sunderpur Tola Ward no-12

Length - K.M

ESTIMATED COST :- 1217600.00 Lakh

SUBMITTED BY:

EXECUTIVE ENGINEER,
RWD WORKS DIVISION, DHAKA

F.D.R (2020-21)

तकनीकी प्रतिवेदन

प्रस्ताव का नाम :- अंगारों तुरही 20ली. चौड़ाई 400/30 (20ली. चौड़ाई नं०-12

प्रस्ताव का नाम :- अंगारों तुरही

सीध :- 111111

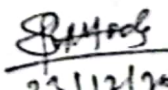
प्राक्कलित राशि :- 1217600.00

अनुस्मरण अवधि :- निर्धारित

प्रस्तुत प्राक्कलन अंगारों तुरही 20ली. चौड़ाई 400/30 (20ली. चौड़ाई नं०-12 में अतिवृष्टि / बाढ़ से क्षतिग्रस्त पथांशों यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि ... 1217600.00 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 ... अंगारों तुरही 20ली. चौड़ाई 400/30 से भरने का प्रावधान किया गया है।

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


सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा अंगारों तुरही


23/12/2020
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल अंगारों तुरही


23/12/2020
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल अंगारों तुरही

Name of Work:- Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Bhagha Turha Toli Chowk to Sunderpur Tola Ward no-12

Head - 2245 Length-

Sl No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qs.	Rate	Amount
1		Labour for laying dry graded dhama 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.	cum	As Per	Appendix					
					1			547 518.40	2147.41	1217581.47 1113004.80
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	0	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 structure graded and compected as per Technical Specification	M3					0	400.59	0.00
TOTAL (in Re.)										1217581.47
Say Total Rs-										1217600.00

J. K. Singh
Junior Engineer,
Rural Works Department,
Works Section, Ghoreghat

B. K. Singh
23/12/2020
Assistant Engineer,
Rural Works Department,
Works Sub Division, Ghoreghat

J. K. Singh
23/12/2020
Executive Engineer,
Rural Works Department,
Works Division, Ghoreghat

Post Facto T.A./TS is accorded for Rs. 12,17,600 =
(.....crore Twelve lacs Seventeen thousand
Six hundred) only.

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

facto TAT is accorded for Rs. 11,13,000.00

() crore Eleven lacs thirteen

() hundred ()

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

19-03-21

Name of Work:-

Estimate for Emergent Repair of Road breaches (Damaged by Flood) for Bhagha Turha
Toli Chowk to Sunderpur Tola Ward no-12

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	0.600	30.000	$\frac{(1.60)+4.20}{2}$	3.500 3.20	567.000
Total					567.000 518.40

[Signature]
Junior Engineer
Rural Works Department,
Works Section, *Chowk*

[Signature]
Asistant Engineer
Rural Works Department,
Works Sub Division, *Chowk*

[Signature]
23/12/2020
Executive Engineer,
Rural Works Department,
Works Division, *Chowk*

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/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 0.500	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	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

Inspection Report for Flood Damage Works

Date :-

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

2. Name of Block - Ghorasahi

Name of Road - Bhagha Tyake talu chowk to Sunderpur talu
Ward No. 12

(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:-

Bricks Belp

(ii) Equipments/ Tools being used in Restoration works:-

(iii) Procedure taken up in Restoration works:-

Departmental

(iv) Restored Length:

30 M

Signature of Inspecting officer
(Executive Engineer)

R.W.D, W.D.

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