



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR YEAR 2021-22

DISTRICT:- EAST CHAMPARAN

BLOCK:- PATAHI

Estimate for Repair of Road breaches
(Damaged by Flood) for Motoribility in
Kalupakar To Belahi Kushwaha Tola

LENGTH OF ROAD (in Km)- 1.129 KM

ESTIMATED COST - 1.014 Lacs

SUBMITTED BY: EXECUTIVE ENGINEER, RWD WORKS DIVISION, PAKRIDAYAL

पथ का नाम:- आखुपाऊड़ दो वेलाही राम कु श्रमाहा टोला

प्रखंड का नाम :- प्रताही

पथ की लम्बाई :- 1.129 k·m

शीर्ष:— F.D.R

प्राक्कलित राशि:– 1.014 लाख

योजना शीर्ष :--

MMGGY

उपरोक्त योजना का प्राक्कलन सचिव, ग्रामीण कार्य विभाग, बिहार पटना के पंत्रांक 1937 दिनांक 07.07.2021 के द्वारा दिए गए निदेश के आलोक में एवं कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पकड़ीदयाल के निदेशानुसार स्थल जॉचोपरान्त तैयार किया गया है। माह मई 2021 से अक्टुबर 2021 के बीच प्रलयंकारी बाढ़ एवं अतिवृष्टि के कारण उक्त पथ में अनेक स्थानों पर कटाव हो गया था जिस कारण पथ से होकर आवागमन बाधित हो गया था। पथ से होकर तत्काल आवागमन चालू करने हेतु क्षतिग्रस्त भाग में तत्काल उपलब्ध हो सके सामग्री यथा—ईंट टूकडा / स्थानीय बालू / बॉस—बल्ला / खाली सिमेंट बैग / हयूम पाईप आदि आवश्यकतानुसार उपयोग करने का प्रावधान किया गया है। यह कार्य निदेशानुसार विभागीय रूप से करा दिया गया है।

यह प्राक्कलन अद्यतन अनुसूचित दर पर संवेदक लाभ रहित तैयार किया गया है। जनहित में इसकी स्वीकृति अपेक्षित है।

कनीय अभियंता ग्रामीण कार्य विभाग, प्रशाखा,...प्रत्याहरी

सहायक अभियंता ग्रामीण कार्य विभाग.

कार्य अवर प्रमंडल,..... कार्य प्रमंडल, पकड़ीदयाल।

ग्रामीण कार्य विभाग,

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GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR MOTORIBILITY IN KALUPAKAR TO BELAHI KUSHWAHA TOLA

DISTRICT - EAST CHAMPARAN BLOCK - PATAHI

<u>DIVISION - PAKRIDAYAL</u> <u>LENGTH OF ROAD (in Km)- 1.129 KM</u>

SL. No.	Item of Work		Amount
1	EARTH WORK	•	0.000 Lac
2	BRICK BATS		0.854 Lac
3	SAND BAGS	*	0.000 Lac
4	HUME PIPE		0.000 Lacs
	COST OF RESTORATION	:	0.854 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST	:	0.049 Lacs
	ADD LABOUR CESS @ 1%		0.009 Lacs
	ADD GST @ 12%		0.103 Lacs
	TOTAL COST OF RESTORATION OF ROAD	:	1.014 Lacs

Junior Engineer

Acett Engineer

Executive Engineer

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in Kalupakar To Belahi Kushwaha Tola

ON IO	Item No.	Name of Item	unit	ş	Length	Width	Height	Ą	Rate	Amount
1		EARTH WORK - Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5			As P Appen	700		0	183.70	0
2		Providing and Labour for laying dry graded Brick Bats including light ramming etc. all complete as per approved design, specification and direction of E/I.	cum		As P Append			49.220	1730:01	95446.47 954:
3		Providing, Filling Sand Bag, Stitching and Placing etc. all complete as per specification and direction of E/I.	Nos.					0.000	24.45	0.00
4		Providing and laying 1000 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonary.	RM		0 Nos*2	:.5m		0.000	6086.50	0.00
5		Providing and laying 600 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonary.	RM	9	0 Nos*2		5,4	0.000	2545.18	0.00
								TO	TAL (in Re.)	85446.41

Junior Engineer, Rural Works Department, Works Section, PATAHI Assistant Engineer, Rural Works Department, Works Sub Division, PATAHI Executive Engineer, Rural Works Department, Works Division, PAKRIDAYAL

fort factorams is accorded for Rs. 95, 400. Work factorams is accorded for Rs. 95, 400. Work factor to the lack Hindly thousand to U.S. hundred jonly.

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

-	Earth Brick bats	Cum	1.0	0.00	34.82	0.00	0.00	0.00
49.22	Brick bats	C				33,550	0.00	0.00
		Cum	1.0	49.22	987.00	48580.14	4858.01	4858.01
bag 0.00	sand	Cum	0.034	0.00	141.85	0.00	0.00	0.00
0.00	Sand at site	Cum	0.04	0.00	175.80	0.00	0.00	0.00
0.00	Sand at site	Cum	0.0032	0.00	175.80	0.00	0.00	0.00
Total A	mount of segin	orage fe	e in constru	ction (Rs)	4			4858.01
	0.00	0.00 Sand at site	0.00 Sand at site Cum 0.00 Sand at site Cum	0.00 Sand at site Cum 0.003 0.00 Sand at site Cum 0.0032	0.00 Sand at site Cum 0.04 0.00	0.00 Sand at site Cum 0.04 0.00 175.80 0.00 Sand at site Cum 0.0032 0.00 175.80	0.00 Sand at site Cum 0.04 0.00 175.80 0.00 0.00 Sand at site Cum 0.0032 0.00 175.80 0.00	0.00 Sand at site Cum 0.04 0.00 175.80 0.00 0.00 0.00 0.00 Sand at site Cum 0.0032 0.00 175.80 0.00 0.00

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Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in Kalupakar To Belahi Kushwaha Tola

SI.	Chainage	Longth (NO)	g the Breach with	with Brick Bats			
lo.		Length (M)	Av. Width (M)	Thickness (M)	Quantity		
2	1.000 To 1.100	3.000	5.50+4.00/2	2.50+1.50/2	(cum)		
		2.500	6.00+3.75/2		28.500		
D	eduction for any		Total	2.00+1.40/2	20.719		
D	eduction for 0Nos old 1000 eduction for 0Nos old 600	mm HP at 0 m (3.1	42*0.26*0)	Laborator A. A.	49.22		
- P	eduction for 0Nos old 600	mm HP at 0 m (3.14	2*0.30*0)		0.00		
_		o iii (5.14	2.0.22*0)		0.00		
	flors		Net Qua	antity of Brick Bats	49.22		

Junior Engineer

Asistant Engineer

Executive Engineer

BRICK BATS PITCHING MANUAL MEANS

6.6.1 Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitchir										
WRD	Pitching in slope or apron including light ramming etc. all complete as per approved									
Bihar	design, specification and direction of E/I.									
	Unit :- Per Cum									
	The second secon									
	Taking Output = 2.832 Cum Unskilled Mazdoor		P. Control		212.00					
	Rate for 2.832 Cum	Nos.	3	304.00	912.00					
					912.00					
	Rate per Cum (Rs.) -				322.03					
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 1									
	(i) Surfaced Road									
	Speed with load : 15 km / hour.									
N.	Speed while Returning empty :25 km / hor									
	a) Machinery.									
	Tractor 3.6 tonne capacity									
	Time taken for onward haulage with load	hour	0.667	612.00	408.20					
	Time taken for empty return trip.	hour	0.400	612.00	244.80					
	cost for 36 t km = a+b+c				653.00					
	Rate per t.km = $(a+b+c)/36$				18.14					
	Say Rs			i i	18.14					
	(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	612.00	509.80					
	Time taken for empty return trip hour 0.5		0.500	612.00	306.00					
	Cost for 36 t .km = a+b+c 840.34		0.500		815.80					
	Rate per t.Km = $(a+b+c)/36$		1		22.66					
			-		22.66					
	Say Rs				2.2.100					

1.1 RCD	Loading and Unloading of Stone Bould	er/ Stoneag	gregates/Bri	ck Bats/Jham	a Metal/Sa				
	/Kanker/Moorum								
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return to								
	excludingfor haulage and return trip								
	Unit = cum			1					
	Taking output = 2.25 cum			1					
	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	<u> </u>							
	Mate	day	0.03	321.00	9.6				
	Mazdoor for loading and unloading	day	0.72	304.00	218.8				
	b) Machinery								
	Tractor 3.60 tonnes capacity	hour	0.1	612.00	61.2				
	Front end-loader 1 cum bucket capacity								
74	@ 25 cum/hour	hour	0.083	1594.00	132.3				
	Cost for 2.25 cum = a+b+c+d				422.0				
	Rate per cum = (a+b+c+d)/ 2.25				187.5				
Note:-	Unloading will be done manually.								
	Suplying for Brick Bats				1				
1.	Basic Rate of Brick Bats	Per Cum		987.00	987.00				
Α.	Total -				987.00				
	Surface Lead	KM	7						
	Unsurface Lead	KM	1						
	Factor (3.6/2.25)	Cum	1.60						
В.	Carriage				426.00				
	(1.6 x 7 x 18.14) + (1.6 x 1 x 22.66) + 187.5	6			426.98				
C.	Cost of Labour for Pitching and Light				322.03				
	Ramming as per WRD SOR 6.6.1								
	Total (A+B+C) -				1736.01				
	Total Cost per Cum			Rs	1736.01				

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Inspection Report For Flood Damage Work

Date:-

- 1. Name of PIUs- Executive Engineer, RWD. (W.D), Pakridayal.
- 2. Name of Block Patahi.
- 3. Name of Road Kalupakar To Belahi Kushwaha Tola.

(A) For Road

- 1. Damage Location/Chainage:- 1.000 To 1.100
- 2. Damage Length: 5.500 Meter.
- 3. Cause of Damage: Due To Flood 2021/ Heavy Rain.
- 4. Nature of Damage :- Ditches/Breaches
- 5. Details of Restoration Work:-
 - (i) Material being used in restoration works: Bricks Bat/Jhamma Metal/ Rabis/Hume Pipe.
 - (ii) Equipment/Tools being used in restoration Works :- J.C.B./Tractor/Trolley/Others
 - (iii) Procedure Taken up in restoration works :- Emergent Repair.
 - (iv) Restored Length :- 5.500 Meter.

DELL STOOM

Signature of Inspecting officer
(Executive Engineer)
R.W.D. (W.D) Dhaka.