

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 GAMHARIA TO KHUTAUNA

LENGTH OF ROAD (in Km)- 4.072 KM

ESTIMATED COST - +1.417 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

पथ का नाम:- जाम्हार पा दो दवूरीना प्रखंड का नाम:- पत्राहीपथ की लम्बाई:- प्राचीन पर्मार्थः-

शीर्ष:-प्राक्कलित राशि:-योजना शीर्ष :-२ . ल . ज ५ - जाः १ . ल . ज ५ - जाः

उपरोक्त योजना का प्राक्कलन सचिव, ग्रामीण कार्य विभाग, बिहार पटना के पत्रांक 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।

5Alos. कनीय अभियंता

ग्रामीण कार्य विभाग, प्रशाखा,...प्रास्ट्री-

सहायक अभियंता कार्यपालक अभियंता प्रामीण कार्य विभाग, ग्रामीण कार्य विभाग, ग्रामीण कार्य विभाग,

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

GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR MOTORIBILITY IN GAMHARIA TO KHUTAUNA

DISTRICT - EAST CHAMPARAN

BLOCK - PATAHI

DIVISION - PAKRIDAYAL

LENGTH OF ROAD (in Km)- 4.072 KM

SL.	Item of Work		Amount
1	EARTH WORK		0.000 Lacs
2	BRICK BATS	•	9.620 Lacs
3	SAND BAGS		0.000 Lacs
4	HUME PIPE	:	0.000 Lacs
	COST OF RESTORATION	:	9.620 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST	:	0.547 Lacs
	ADD LABOUR CESS @ 1%	:	0.096 Lacs
	ADD GST @ 12%	:	1.154 Lacs
	TOTAL COST OF RESTORATION OF ROAD	58.	11.417 Lacs

Junior Engineer

Asstt. Engineer

Executive Engineer

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in GAMHARIA TO KHUTAUNA

Item No.	Name of Item	nuit	Š	Length	Width	Height	Ġ	Rate	Amount
	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 F Apper	7.0		0	183.70	0
	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 I Apper			554.140	4790.0T	961992:50
	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
j	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		0 Nos			0.000 44C	2545.18	0.00

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

Four mone Ten lacs Seventy forem only.

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

works Circle

Motihari

		Quantity of	一	130	的可以	新则知	19 E	のはは	THE STATE OF	Final Amount
Item dexcription	i unit	Consuming Item	Materials Required/ Unit	Unit	Quantity/ Unit	Total Quantity Requeired	Rate	Amount	Seigniorage Fee (RS)	(RS)
Earth Work	Cum	0.00	Earth	Cum	1.0	0.00	34.82	0.00	0.00	0.0
Brick bats	Cum	554.14	Brick bats	Cum	1.0	554.14	987.00	546936.18	54693.62	54693.6
Sand Bags	per bag	0.00	sand	Cum	0.034	0.00	141.85	0.00	0.00	0.0
1000 MM Dia	RM	0.00	Sand at site	Cum	0.04	0.00	175.80	0.00	0.00	0.0
600 MM Dia	RM	0.00	Sand at site	Cum	0.0032	0.00	175.80	0.00	0.00	0.0
		Total An	ount of segin	orage fe	6 in construc	tion (Rs)	1	PART I		54693.0
4-14 (4.2.1)	0.63.04	1.11	T. W. S. LAT	尼 德 1	原於鄉古五	0.710	100	A STATE OF THE PARTY OF THE PAR		
(ĭ									
-Al	ربو				٨	Λ.	1			
SAL	الدرا	021			(d)_	l.	d	23/1		
2 k	1101	021				Liely	d	23/11		
2 k	1101	1021 E			(A)	l all	2	23/11		
26	110/	021 E	*		(A)	eliely one	d	23 11		

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in GAMHARIA To KHUTAUNA

			ndix - II					
CI T	Measure	ment for surfacin	g the Breach with	Brick Bats				
SI. No.	Chainage	Length (M)	Av. Width (M)		Quantity (cum)			
2	1.500 To 2.000	25.000	3.750	0.900	84.375			
3		4.000	3.000	0.800	9.600			
4		5.000	2.500	1.200	15.000			
5	3.200 To 3.700	6.000	2.000	1.800	21.600			
6		30.000	4.500	2.50+1.40/2	263.250 .			
-		95.000	3.750	0.450	160.313			
Deduction for Objected 1999								
Deduction for 0Nos old 1000 mm HP at 0 m (3.142*0.36*0) Deduction for 0Nos old 600 mm HP at 0 m (3.142*0.22*0)								
								Net Quantity of Brick Bats

Junior Engineer

Asistant Engineer

Executive Engineer

BRICK BATS PITCHING MANUAL MEANS

6.6.1	Labour for laying dry graded thams VI		740		la a paula				
WRD	Labour for laying dry graded Jhama Kh	ioa or sto	one filter under	Brick Pitch	ing or Bould				
Bihar	Pitching in slope or apron including light ramming etc. all complete as per approve								
	design, specification and direction of E/	l.							
	Unit :- Per Cum		·						
	Taking Output = 2.832 Cum	-							
	Unskilled Mazdoor	Nes			040.6				
	Rate for 2.832 Cum	Nos.	3	304.00	912.0				
	Rate per Cum (Rs.) -				912.0				
	nate per cum (RS.) -				322.0				
L.4 RCD	Cost of Haulage Excluding Loading and U	lalaadisa							
1.1	Haulage of materials by Tractor evolution	roct of le		1.7.12.					
	Unit = t.km	COST OF IC	ading, unloading	and stacking	g				
25/7	Taking output 3.60 tonnes load and lead	10 km - 2	COAL						
	(i) Surfaced Road	10 km = 3	6.0 t.km						
	Speed with load : 15 km / hour.								
N. 8	Speed while Returning empty :25 km / ho		Mr 10-17						
	a) Machinery.	ur.							
	Tractor 3.6 tonne capacity								
	Time taken for onward haulage with load	hour	0.667	612.00	400.20				
	Time taken for empty return trip.	hour	0.400		408.20				
	cost for 36 t km = a+b+c	noui	0.400	612.00	244.80				
	Rate per t.km = $(a+b+c)/36$				653.00				
	Say Rs			160	18.14 18.14				
				- 27	10,14				
+	(ii) Unsurfaced Graveled Road		1						
	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		0.833	612.00	509.80				
	Time taken for empty return trip hour 0.5	hour	0.500	612.00	306.00				
	Cost for 36 t .km = a+b+c 840.34				815.80				
	Rate per t.Km = $(a+b+c)/36$				22.66				
	Say Rs			600	22,66				

1.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Brick Bats/Jhama Metal/Sand/Kanker/Moorum								
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip								
	Taking output = 2.25 cum								
	Time required for								
	i) Positioning of Tractor at loading point								
		ii) Loading by front end loader 1 cum		1 Min					
	bucket capacity @ 25 cum per hour	-	5 Min						
	iii) Maneuvering, reversing, dumping and		2.00						
	turning for return		0 Min	1					
	iv) Waiting time, unforeseen		O IVIIII						
	contingencies etc	1	0 Min						
	Total		6 Min						
	a) Labour		-						
	Mate	day	0.03	321.00	9.63				
4.0	Mazdoor for loading and unloading	day	0.72	304.00	218.88				
	b) Machinery								
	Tractor 3.60 tonnes capacity	hour	0.1	612.00	61.20				
	Front end-loader 1 cum bucket capacity	7							
	@ 25 cum/hour	hour	0.083	1594.00	132.30				
	Cost for 2.25 cum = a+b+c+d				422.01				
	Rate per cum = $(a+b+c+d)/2.25$				187.56				
Note:-	Unloading will be done manually.								
1.	Suplying for Brick Bats								
A.	Basic Rate of Brick Bats	Per Cum		987.00	987.00				
	Total -			7	987.00				
	Surface Lead	KM	7						
	Unsurface Lead	KM	1						
	Factor (3.6/2.25)	Cum	1.60						
В.	Carriage								
	(1.6 x 7 x 18.14) + (1.6 x 1 x 22.66) + 187.5	56			426.9				
C.	Cost of Labour for Pitching and Light								
	Ramming as per WRD SOR 6.6.1				322.0				
	Total (A+B+C) -				1736.0				
	Total Cost per Cum			Rs	1736.0				

26/10/021 5.E

22/10/4

من ود

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 GAMHARIA TO KHUTAUNA.

(A) For Road

- 1. Damage Location/Chainage :- 1.500 To 2.000 & 3.200 To 3.700
- 2. Damage Length: 165.00 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 :- 165.00 Meter.

Sig

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