



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 GONAHI To GUJRAUL

LENGTH OF ROAD (in Km)- 1.865 KM

ESTIMATED COST - 2.146 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

पथ का नामः - अम्हरिया ओनाही से गुजरील

प्रखंड का नाम :- प्रताही

पथ की लम्बाई :--1.862 K.W

शीर्ष:— F.D.R

प्राक्कलित राशि:– 2.146 साख

योजना शीर्ष :--

MMGSY

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।

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

ग्रामीण कार्य विभाग,

सहायक अभियंता कार्यपालक अभियंता 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 GONAHI TO GUJRAUL

DISTRICT - EAST CHAMPARAN

BLOCK - PATAHI

DIVISION - PAKRIDAYAL

LENGTH OF ROAD (in Km)- 1.865 KM

SL. No.	Item of Work	Amount				
1	EARTH WORK		0.000 Lac			
2	BRICK BATS	:	1.808 Lac			
3	SAND BAGS		0.000 Lac			
4	HUME PIPE	:	0.000 Lacs			
_	COST OF RESTORATION	:	1.808 Lacs			
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST	11	0.103 Lacs			
	ADD LABOUR CESS @ 1%	:	0.018 Lacs			
	ADD GST @ 12%	:	0.217 Lacs			
	TOTAL COST OF RESTORATION OF ROAD	:	2.146 Lacs			

Junior Engineer

Acett Engineer

Evecutive Engineer

Name of Work:-

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

Providing and Labour for laying dry graded Brick Bats Cum As Per 104,130	SI No.	Item No.	Name of Item	unit	N _O	Length	Width	Height	Otty.	Rate	Amount
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. Providing, Filling Sand Bag, Stitching and Placing etc. all complete as per specification and direction of E/I. 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. 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*2.5m 0.000 2545.18 0.00	1		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						0	183.70	0
Providing, Filling Sand Bag, Stitching and Placing etc. all complete as per specification and direction of E/I. 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 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,	2		including light ramming etc. all complete as per	cum		500 00 00	553 have		104.150		2019
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. 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,	3		6,	Nos.					0.000	24,45	
concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation,	4		concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation,	RM		0 Nos*	2.5m		0.000	6086.50	0.00
	5		concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation,	RM	()	0 Nos*	2.5m	2	0.000	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 Opartment, Works Division, PAKRIDAYAL

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A 1500 AN	M. Page 163	SHEET	<u>LCULATION</u>	FEE CA	RAGE	SEIGNIC			
Seigniorage Fee (RS)	Amount	Rate	Total Quantity Requeired	Quantity/ Unit	Unit	Materials	Quantity of Consuming Item	unit	tem dexcription
0.00	0.00	34.82	0.00	1.0	Cum	Earth	0.00	Cum	Earth Work
10279.61	102796.05	987.00	104.15	1.0	Cum	Brick bats	104.15	Cum	Brick bats
0.00	0.00	141.85	0.00	0.034	Cum	sand	0.00	per bag	
0.00	0.00	175.80	0.00	0.04	Cum	Sand at site	0.00		1000 MM Dia
0.00	0.00	175.80	0.00	0,0032	Cum				600 MM Dia
SEX. C	A POST	V.C.S.B							OOO WINI DIA
	0.00 10279.61 0.00 0.00	Amount Fee (RS) 0.00 0.00 102796.05 10279.61 0.00 0.00 0.00 0.00	Rate Amount Seigniorage Fee (RS) 34.82 0.00 0.00 987.00 102796.05 10279.61 141.85 0.00 0.00 175.80 0.00 0.00	Total Quantity Requeired Rate Amount Seigniorage Fee (RS) 0.00 34.82 0.00 0.00 104.15 987.00 102796.05 10279.61 0.00 141.85 0.00 0.00 0.00 175.80 0.00 0.00 0.00 175.80 0.00 0.00	Quantity/ Unit Total Quantity Requeired Rate Amount Seigniorage Fee (RS) 1.0 0.00 34.82 0.00 0.00 1.0 104.15 987.00 102796.05 10279.61 0.034 0.00 141.85 0.00 0.00 0.04 0.00 175.80 0.00 0.00 0.0032 0.00 175.80 0.00 0.00	Unit Quantity/Unit Total Quantity Requeired Rate Amount Seigniorage Fee (RS) Cum 1.0 0.00 34.82 0.00 0.00 Cum 1.0 104.15 987.00 102796.05 10279.61 Cum 0.034 0.00 141.85 0.00 0.00 Cum 0.04 0.00 175.80 0.00 0.00 Cum 0.0032 0.00 175.80 0.00 0.00	Materials Required/ Unit Unit Quantity/Unit Total Quantity Requeired Rate Amount Fee (RS) Earth Cum 1.0 0.00 34.82 0.00 0.00 Brick bats Cum 1.0 104.15 987.00 102796.05 10279.61 sand Cum 0.034 0.00 141.85 0.00 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	Quantity of Consuming Item Materials Required/ Unit Unit Quantity/ Unit Total Quantity Requered Rate Amount Seigniorage Fee (RS) 0.00 Earth Cum 1.0 0.00 34.82 0.00 0.00 104.15 Brick bats Cum 1.0 104.15 987.00 102796.05 10279.61 0.00 sand Cum 0.034 0.00 141.85 0.00 0.00 0.00 Sand at site Cum 0.04 0.00 175.80 0.00 0.00	unit Quantity of Consuming Item Materials Required/ Unit Unit Quantity/ Unit Total Quantity Requeired Rate Amount Seigniorage Fee (RS) Cum 0.00 Earth Cum 1.0 0.00 34.82 0.00 0.00 Cum 104.15 Brick bats Cum 1.0 104.15 987.00 102796.05 10279.61 per bag 0.00 sand Cum 0.034 0.00 141.85 0.00 0.00 RM 0.00 Sand at site Cum 0.04 0.00 175.80 0.00 0.00 RM 0.00 Sand at site Cum 0.0032 0.00 175.80 0.00 0.00

26/10/021 J.E

Out 36/10/7

24/11

Name of Work:-

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

	Appendix - II Measurement for surfacing the Breach with Brick Bats									
SI. No.	Chainage	Length (M)	Av. Width (M)	Thickness (M)	Quantity (cum)					
1		23.000	2.50+1.00/2	0.600	24.150					
2		7.000	3.750	0.550	14.438					
3		5.000	3.750	0.450	8.438					
4	0.000 mg 1.600	5.000	3.750	0.700	13.125					
5	0.900 TO 1.600	7.000	3.750	0.600	15.750					
6		4,000	2.500	0.400	4.000					
7		10,000	2.000	0.650	13.000					
8		6.000	2.500	0.750	11.250					
	Total									
	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



6.6.1	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boul								
WRD	Pitching in slope or apron including light ramming etc. all complete as per appro								
Bihar	design, specification and direction of E/I.								
	Unit :- Per Cum			l I	مبيد والتقايم				
	Taking Output = 2.832 Cum								
	Unskilled Mazdoor	Nos.	3	304.00	912.0				
	Rate for 2.832 Cum	1100.	—	30 1100	912.0				
	Rate per Cum (Rs.) -				322.0				
		1							
1.4 RCD	Cost of Haulage Excluding Loading and U	ploading							
	Haulage of materials by Tractor excluding	cost of le	ading unloading	and stacking	~				
	Unit = t.km	COST OF IC	T I I	and Stacking	В.				
7	Taking output 3.60 tonnes load and lead	10 km - 2	6.0 t km	-					
	(i) Surfaced Road	I	J. C.KIII						
	Speed with load : 15 km / hour.				-				
	Speed while Returning empty :25 km / ho	+							
	a) Machinery.	i.	 						
	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		0,,00	022.00	653.00				
	Rate per t.km = (a+b+c)/36				18.14				
	Say Rs		,		18.14				
	*								
	(ii) Unsurfaced Graveled Road								
	Speed with load: 12 km / hour								
	Speed for empty return trip :20 km / hour			-					
	a) Machinery			1					
	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	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			53	22.66				

.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Brick Bats/Jhama Metal/San/Kanker/Moorum							
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return tr							
	excludingfor haulage and return trip							
	Unit = cum							
	Taking output = 2.25 cum			ľ				
	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	1 1	5 Min					
	iii) Maneuvering, reversing, dumping and		The Manager					
	turning for return		0 Min					
	iv) Waiting time, unforeseen							
	contingencies etc		0 Min					
	Total		6 Min					
	a) Labour							
	Mate	day	0.03	321.00	9.63			
	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							
	@ 25 cum/hour	hour	0.083	1594.00	132.30			
	Cost for 2.25 cum = a+b+c+d				422.01			
1	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 -				987.00			
	Surface Lead	KM	7					
	Unsurface Lead	KM	1					
В.	Factor (3.6/2.25)	Cum	1.60					
	Carriage							
	(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							
	Ramming as per WRD SOR 6.6.1				322.03			
	Total (A+B+C) -				1736.01			
	Total Cost per Cum			Rs	1736.01			
					THE CHARLEST BEFORE			

26/10/02/ 3.E

Dul 26/10/19

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 GONAHI TO GUJRAUL.

(A) For Road

- 1. Damage Location/Chainage:- 0.900 To 1.600
- 2. Damage Length: 67.00 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 :- 67.00 Meter.

Signature of Inspecting officer (Executive Engineer)

R.W.D. (W.D) Dhaka.