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 BAKHARI To BETAUNA

LENGTH OF ROAD (in Km)- 3.2 KM

ESTIMATED COST -   ~~1.449~~ Lacs

1.364

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

तकनीकी प्रतिवेदन

पथ का नामः– बखरी से बेटौना

प्रखंड का नाम :– पतांही

पथ की लम्बाई :– 3.2 K.M

शीर्षः– F.D.R

प्राक्कलित राशिः– 1.441 लाख

योजना शीर्ष :– P.M.G.S.Y

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 जाँचोपरान्त 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 / बाँस–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।

<table>
<tr><td>26/10/021</td><td>2c/10/2</td><td>23/11/21</td></tr>
<tr><td>कनीय अभियंता</td><td>सहायक अभियंता</td><td>कार्यपालक अभियंता</td></tr>
<tr><td>ग्रामीण कार्य विभाग,</td><td>ग्रामीण कार्य विभाग,</td><td>ग्रामीण कार्य विभाग,</td></tr>
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GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR MOTORIBILITY IN BAKHARI TO BETAUNA

DISTRICT - EAST CHAMPARAN　　**DIVISION - PAKRIDAYAL**

BLOCK - PATAHI　　**LENGTH OF ROAD (in Km)- 3.2 KM**

SL. No.	Item of Work		Amount
1	EARTH WORK	:	0.000 Lacs
2	BRICK BATS	:	1.221 Lacs
3	SAND BAGS	:	0.000 Lacs
4	HUME PIPE	:	0.000 Lacs
	COST OF RESTORATION	:	1.221 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST	:	0.069 Lacs
	ADD LABOUR CESS @ 1%	:	0.012 Lacs
	ADD GST @ 12%	:	0.147 Lacs
	TOTAL COST OF RESTORATION OF ROAD	:	1.449 Lacs

26/10/021

Junior Engineer

26/10/21

Asstt. Engineer

23/11/21

Executive Engineer

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in BAKHARI To BETAUNA

Head - FDR

SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	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	cum		As Per Appendix I			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 Per Appendix II			70.330	~~4736.01~~ 1938.89	~~122003.58~~ 136362.00
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		0 Nos*2.5m			0.000	2545.18	0.00
									TOTAL (in Re.)	~~122003.58~~

say 136400.00

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

Post facto T.A./T.S is accorded for Rs. 136400.00
(_____ crore One lacs thirty six thousand Four hundred _____) only.

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

SEIGNIORAGE FEE CALCULATION SHEET

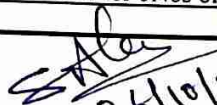| Item dexcription	unit	Quantity of Consuming Item	Materials Required/ Unit	Unit	Quantity/ Unit	Total Quantity Requeired	Rate	Amount	Seigniorage Fee (RS)	Final Amount (RS)
Earth Work	Cum	0.00	Earth	Cum	1.0	0.00	34.82	0.00	0.00	0.00
Brick bats	Cum	70.33	Brick bats	Cum	1.0	70.33	987.00	69415.71	6941.57	6941.57
Sand Bags	per bag	0.00	sand	Cum	0.034	0.00	141.85	0.00	0.00	0.00
1000 MM Dia	RM	0.00	Sand at site	Cum	0.04	0.00	175.80	0.00	0.00	0.00
600 MM Dia	RM	0.00	Sand at site	Cum	0.0032	0.00	175.80	0.00	0.00	0.00
Total Amount of seginorage fee in construction (Rs)										6941.57

26/10/021
J. E

26/10/21
A2

23/11
EE

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in BAKHARI To BETAUNA

Sl. No.	Chainage	Length (M)	Av. Width (M)	Thickness (M)	Quantity (cum)
			Appendix - II		
		Measurement for surfacing the Breach with Brick Bats			
1	0.500 To 0.600	10.500	3.750	0.750	29.531
2		3.000	4.000	1.900	22.800
3	1.000	2.500	4.000	1.800	18.000
		Total			70.33
	Deduction for 0Nos old 1000 mm HP at 0 m (3.142*0.36*0)				0.00
	Deduction for 0Nos old 600 mm HP at 0 m (3.142*0.22*0)				0.00
				Net Quantity of Brick Bats	70.33

26/10/021

Junior Engineer

26/10/21

Asistant Engineer

23/11

Executive Engineer

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	304.00	912.00
	Rate for 2.832 Cum				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 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	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. -				**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	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. -				**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, excludingfor 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	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
	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			
	Factor (3.6/2.25)	Cum	1.60			
B.	Carriage					
	(1.6 x 7 x 18.14) + (1.6 x 1 x 22.66) + 187.56					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

26/10/021
J. E

2e/10/21
AD

29/11

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 – BAKHARI TO BETAUNA.

(A) For Road

1. Damage Location/Chainage :- 0.500 To 0.600 & 1.000

2. Damage Length :- 16.00 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 :- 16.00 Meter.

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