ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR
YEAR 2021-22

DISTRICT :- EAST CHAMPARAN
BLOCK :- PHENHARA

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PIPRA To MOHAN MARPA

LENGTH OF ROAD (in Km)- 2.69 KM

ESTIMATED COST -   2.106   Lacs
                   1.982

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

तकनीकी प्रतिवेदन

पथ का नाम :– पिपरा से मोहन मड़पा

प्रखंड का नाम :– प्रेनघरा

पथ की लम्बाई :– 2.69 किoमीo

शीर्ष :– MMGASY

प्राक्कलित राशि :– 2.106 लाख

योजना शीर्ष :– FDR

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।

08.11.2021

कनीय अभियंता
ग्रामीण कार्य विभाग,
प्रशाखा, प्रेनघरा

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल,....................

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, पकड़ीदयाल।

GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR MOTORIBILITY IN PIPRA TO MOHAN MARPA

DISTRICT - EAST CHAMPARAN   **DIVISION - PAKRIDAYAL**
BLOCK - PHENHARA   **LENGTH OF ROAD (in Km)- 2.69 KM**

SL. No.	Item of Work		Amount
1	EARTH WORK	:	0.000 Lacs
2	BRICK BATS	:	1.774 Lacs
3	SAND BAGS	:	0.000 Lacs
4	HUME PIPE	:	0.000 Lacs
	COST OF RESTORATION	:	1.774 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST	:	0.101 Lacs
	ADD LABOUR CESS @ 1%	:	0.018 Lacs
	ADD GST @ 12%	:	0.213 Lacs
	TOTAL COST OF RESTORATION OF ROAD	:	2.106 Lacs

05.11.2021

Junior Engineer   **Asstt. Engineer**   **Executive Engineer**

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PIPRA To MOHAN MARPA

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			102.200	1736.01	177420.22
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.)	177420.22

198155.55

19855.00

Say 198200.W

4/08.11.2021

Junior Engineer,
Rural Works Department,
Works Section, PHENHARA

Assistant Engineer,
Rural Works Department,
Works Sub Division, PHENHARA

22/11/21

Executive Engineer,
Rural Works Department,
Works Division, PAKRIDAYAL

Post facto TA/FS is accorded for Rs. 198200.W

(........... crore One lacs Ninety eight thousand two 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	102.20	Brick bats	Cum	1.0	102.20	987.00	100871.40	10087.14	10087.14
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)										10087.14

Name of Work:- **Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PIPRA To MOHAN MARPA**

Sl. No.	Chainage (M)	Length (M)	Av. Width (M)	Thickness (M)	Quantity (cum)
		Appendix - II			
		Measurement for surfacing the Breach with Brick Bats			
1	0-500	10.500	0.300	0.450	1.418
2		14.500	1.10+0.80/2	0.600	8.265
3		8.000	1.50+0.80/2	1.000	9.200
4		13.500	0.800+0.500/2	0.600	5.265
5		14.000	0.500+0.300/2	0.450	2.520
6	800-1000	14.000	1.10+0.90/2	0.600	8.400
7		22.000	0.900+0.500/2	0.700	10.780
8		7.500	0.900	1.200	8.100
9	2300-2500	29.000	0.90+0.750/2	0.700	16.750
10		70.000	1.10+0.70/2	0.500	31.500
		Total			102.20
	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	102.20

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08·11·2021
Junior Engineer

६/11/21
Asistant Engineer

22/11/21
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

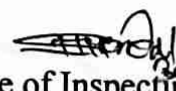| 1.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Brick Bats/Jhama Metal/Sand /Kanker/Moorum					
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excludingfor haulage and return trip					
	Unit = cum					
	Taking output = 2.25 cum					
	Time 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

Inspection Report For Flood Damage Work

Date :-

1. Name of PIUs- Executive Engineer, RWD. (W.D), Pakridayal.
2. Name of Block – Phenhara.
3. Name of Road – PIPRA TO MOHAN MARPA.

(A)   For Road

1. Damage Location/Chainage :-   0.000 To 0.500, 0.800 To 1.000 & 2.300 To 2.500

2. Damage Length :- 203.00 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 :- 203.00 Meter.

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