

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR(2245) YEAR 2020-21

DISTRICT:- East Champaran

BLOCK :- Madhuban

Estimate for Repair of Road breaches
(Damaged by Flood) for Motoribility in
MADHUBAN MELA BAZAR LOHARGAMA
ROAD TO MANIYARPUR BHAGAT TOLA.

ESTIMATED COST-

4.15 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

F.D.R.(2020-21)

Technical Report

Name of Road:- Madhuban Mela Bazar Lohargama Road To Maniyarpur Bhagat

Tola.

Length of Road: - 3.535 K.M

Name of Block:- Madhuban.

Project Head:- M.M.G.S.Y

Package No:-

Estimated Cost:- 4.15 Lacs

This estimate has been prepared for temporary restoration of the above road damaged due to heavy rain/ Flood - 2020 under instruction of Rural Works Department vide letter no- 2789 dated. 21.08.2020. Brick Bats/ Local Sand Bag / Humepipe / Bamboo Pile / Soil has been provided as per need of the above damaged road. This road is under Construction/maintenance / out of maintenance.

All items of this estimate has been taken from approved current schedule rate of works circle Motihari. This estimate is submitted for technical approval /Sanction.

10.12.2020 IE 10.12.20 A.E

R.W.D.(w) Div. Pakridayal.

me of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MADHUBAN MELA BAZAR LOHARGAMA ROAD TO MANIYARPUR BHAGAT TOLA.

SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Oty.	Rate	Amount	
1		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.	cum	As Per Appendix I			187.05	2,147.40 2216.20 414540.2 4,01,6		7	
								T	OTAL (in Re.)	414540.21	-0
								Say Re	415000.00	401	700

10.12.2020

Junior Engineer, Rural Works Department, Works Section, Madhuban Assistant Engineer, Rural Works Department, Works Sub Division, Madhuban

Executive Engineer, Rural Works Department, Works Division, Pakridayal

Post fac (D)

FATTS is accorded for Rs. 4, 01, 700, W

crore Four lacs. Oul thousand

Seven hundred) only.

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

Works Circle

Motibari

ame of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MADHUBAN MELA BAZAR LOHARGAMA ROAD TO MANIYARPUR BHAGAT TOLA.

Appendix - I									
1	Measurement for surfacing the Breach with Brick Bats								
Sl. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)				
1.00	0-060-0.170	30.000	5.500	0.850	140.250				
2.00	0.170-2.200	13.000	3.000	1.200	46.800				
			and any factor appropriate the first of the first section of	Total	187.050				

10.12.2020

Junior Engineer Rural Works Department, Works Section, Madhuban Asistant Engineer
Rural Works Department,
Works Sub Division, Madhuban

Executive Engineer, Rural Works Department, Works Division, Pakridayal

BRICK BATS PITCHING MANUAL MEANS

6.6.1	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulde							
WRD	Pitching in slope or apron including ligh	t rammir	ng etc. all complet	e as per apr	roved design			
Bihar	specification and direction of E/I.							
	Unit :- Per Cum							
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.	3	287.00	861.0			
	Add 6% Overhead Charges				51.6			
	Rate for 2.832 Cum				912.6			
	Rate per Cum (Rs.) -				383.1			
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	.0 km = 3	6.0 t.km					
	(i) Surfaced Road							
	Speed with load : 15 km / hour.							
	Speed while Returning empty:25 km / ho							
	a) Machinery.							
	Tractor 3.6 tonne capacity							
	Time taken for onward haulage with load	hour	0.667	549.10	366.2			
	Time taken for empty return trip.	hour	0.400	549.10	219.6			
	b) Overhead charges @ 0.06 on (a)				35.1			
	cost for 36 t km = a+b+c				621.0			
	Rate per t.km = $(a+b+c)/36$				17.2			
	Say Rs				17.2			
	(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 h	hour	0.833	549.10	457.40			
	Time taken for empty return trip hour 0.50	hour	0.500	549.10	274.55			
	b) Overhead charges @ 0.06 on (a)		3.000	3 13.10	43.92			
	Cost for 36 t .km = a+b+c 840.34							
	Rate per t.Km = $(a+b+c)/36\ 23.34$				775.87			
	Say Rs				21.55			
					21.55			

Note:-	Rate per cum = (a+b+c+d)/ 2.25 Unloading will be done manually.				
Note:-	Unloading will be done manually.				
vote.	omoduling will be done mandary.				
TELES.					
1.	Suplying for Brick Bats (with OH)				
		Per Cum		1017.00	1017.00
Α.	Basic Rate of Brick Bats	Per Cum	204	1017.00	1017.00
	Add overhed Charges		6%		61.02
	Total -				1078.02
	Surface Lead	KM	7		
	Unsurface Lead	KM	1		
		Cum	1.60		
	[Factor (3.6/2.25)				
	Factor (3.6/2.25)				
В.	Factor (3.6/2.25) Carriage (with OH)				
В.					410.07
	Carriage (with OH)				410.07
B. C.	Carriage (with OH)				410.07
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3 Cost of Labour for Pitching and Light	9			
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3	9			410.07 383.15
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3 Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)	9			383.15
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3 Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) -	9			383.15 1871.24
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3 Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - Add 1% Labour Cess (A+B+C)	9			383.15 1871.24 18.71
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3 Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C)	9			383.15 1871.24
	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3 Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) - Add 1% Labour Cess (A+B+C)	9	1	101.70	383.15 1871.24 18.71