

# 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

MUSHAR TOLI TO KOILHARA.

**ESTIMATED COST-**

1.18 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

#### Technical Report

F.D.R.(2020-21)

Name of Road:-Mushar Toli To Koilhara.

Length of Road:-2.066 K.M

Name of Block:-Madhuban.

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

Package No:-

Estimated Cost:-1.18 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.

1012.2020

J.E.

Th. 12.20

A.E

e of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MUSHAR TOLI TO KOILHARA.

SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	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 P Appen			53.44	2216.20 2147.4	118433.728
			1					T	OTAL (in Re.)	118433.73

10-12-2020

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

works Circle

Executive Engineer, Rural Works Department, Works Division, Pakridayal

Scanned with CamScanner

me of Work:-

## Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MUSHAR TOLI TO KOILHARA.

1			Appendix - I						
1	Measurement for surfacing the Breach with Brick Bats								
SI. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)				
1.00	0.00 - 0.020	10.000	4.000	1,000	40,000				
2.00	0.020-0.410	4.000	2.800	1.200	40.000 13.440				
				Total	53.440				

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 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	287.00	861.00			
	Add 6% Overhead Charges				51.66			
	Rate for 2.832 Cum				912.66			
	Rate per Cum (Rs.) -				383.15			
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 = 36	.0 t.km					
	(i) Surfaced Road							
	Speed with load: 15 km / hour.							
	Speed while Returning empty :25 km / hou	ır.						
	a) Machinery.							
	Tractor 3.6 tonne capacity			100多年				
	Time taken for onward haulage with load	hour	0.667	549.10	366.25			
	Time taken for empty return trip.	hour	0.400	549.10	219.64			
	b) Overhead charges @ 0.06 on (a)				35.15			
	cost for 36 t km = a+b+c				621.04			
	Rate per t.km = $(a+b+c)/36$				17.25			
	Say Rs				17.25			
	(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		0.500	549.10				
	b) Overhead charges @ 0.06 on (a)		0.500	343.10	274.55			
	Cost for 36 t .km = a+b+c 840.34				43.92			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rate per t.Km = $(a+b+c)/36$ 23.34				775.87			
	Say Rs				21.55			
	54 N.S.				21.55			

É	Louding and omodering of the second	CONTRACTOR OF THE PARTY OF THE						
	Placing Tractor at loading point, loading with frontloader, dumping, turning for ret							
1	excludingfor haulage and return trip							
1	Unit = cum							
W ARE	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	305.00	9.15			
1	Mazdoor for loading and unloading	day	0.72	287.00	206.64			
	b) Machinery							
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91			
	Front end-loader 1 cum bucket capacity							
	@ 25 cum/hour	hour	0.083	1403.00	116.45			
	c) Overhead charges @ 0.06 on (a+b)				23.23			
	Cost for 2.25 cum = $a+b+c+d$				410.38			
	Rate per cum = $(a+b+c+d)/2.25$				182.39			
lote:-	Unloading will be done manually.							
1.	Suplying for Brick Bats (with OH )							
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00			
	Add overhed Charges	r er eum	6%	1017.00	1017.00			
	Total -		0%		61.02			
					1078.02			
	Surface Lead	KM	7					
	Unsurface Lead	KM	1					
	Factor (3.6/2.25)	Cum	1.60					
В.	Carriage (with OH)							
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.3$	9			410.0			
C.	Cost of Labour for Pitching and Light				410.07			
	Ramming as per WRD SOR 6.6.1 (with OH)							
					383.15			
	Total (A+B+C) -			VALUE OF THE 2	1871.24			
100	Add 1% Labour Cess (A+B+C)		Marin Contract		18.71			
	Add 12% GST (A+B+C)							
	Add 10% cost of Material for Seigniorage F	ee	1	101.70	224.55			
	Total Cost per Cum			No company of the	101.70			
				Rs	2216.20			