

# 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 TO4 TO

MARIPUR MAAL.

**ESTIMATED COST -**

1.06

Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

#### F.D.R.(2020-21)

### Technical Report

T04 To Maripur Maal. Name of Road:-

2.34 K.M Length of Road:-

Name of Block:-Madhuban.

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

BR-11R-524 Package No:-

1.06 Lacs **Estimated Cost:-**

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

Tr. Mr. 10.12.20

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

Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in T04 TO MARIPUR MAAL.

100	Item No.	2245 Length- 2.34 K.M  Name of Item	unit	No 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 F Apper			47.6335	2147.4	0 405565.363 1 0 2 , 2 9	.1.
								TO	OTAL (in Re.)	105565.36	1.

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

OST FACTO is accorded for Rs. 1, 02, 3001.

crore. O I Llacs two thousand hundred only.

Scanned with CamScanner

of Work:-

## Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in T04 TO MARIPUR MAAL.

#### Appendix - I

#### 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		2.500	1.50+2.00/2	0.400	1.750
2.00		2.000	1.500	0.300	0.900
	0.050	3.000	1.250	0.450	1.688
3.00 4.00	0.00-0.250	2.600	1.500	0.450	1.755
5.00		2.800	1.300	0.450	1.638
6.00		2.400	0.800	0.300	0.576
7.00		1.500	0.800	0.450	0.540
_	0.250 - 0.300	5.000	1.600	0.600	4.800
9.00	0.200	1.500	0.600	0.450	0.405
0.00		4.200	1.000	0.450	1.890
1.00		7.000	1.800	0.450	5.670
2.00		10.000	1.200	0.400	4.800
3.00		1.600	1.200	0.450	0.864
4.00		1.200	0.800	0.300	0.290
	0.430 - 0.470	27.000	1.30+1.00+0.90/3	0.300	8.640
6.00		6.200	3.800	0.450	10.600
7.00	0.470-0.900	2.300	1.200	0.300	0.828
7.00				Total	47.634

M 10.12.2020

Junior Engineer Rural Works Department, Works Section, Madhuban 10.12.20

Asistant Engineer Rural Works Department, Works Sub Division, Madhuban Executive Engineer, Rural Works Department, Works Division, Pakridayal

<b>R</b> D <b>B</b> ihar	Labour for laying dry graded Jhama Khoa Pitching in slope or apron including light ra specification and direction of E/I.							
	Unit :- Per Cum				ep en eur			
	Taking Output = 2.832 Cum	1			Mercani Tana			
	Unskilled Mazdoor	Vos.	3	287.00	861.00			
	Add 6% Overhead Charges				51.66			
	Rate for 2.832 Cum				912.66			
	Rate per Cum (Rs.) -				383.15			
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				Sept.			
	Speed with load: 15 km / hour.							
	Speed while Returning empty :25 km / hou							
	a) Machinery.							
	Tractor 3.6 tonne capacity		S. Adel					
	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	T N To Valle			•			
	Speed with load: 12 km / hour							
nelson and	Speed for empty return trip :20 km / hour							
	a) Machinery			Manager Strategy				
	Tractor 3.6 tonnes capacity							
	Time taken for onward haulage with load	hour	0.833	549.10	457.40			
	Time taken for empty return trip hour 0.50	hour	0.500	549.10	274.55			
100	b) Overhead charges @ 0.06 on (a)				43.92			
Description of	Cost for 36 t .km = a+b+c 840.34				775.87			
	Rate per t.Km = $(a+b+c)/36$ 23.34				21.55			
	Say Rs				21.55			

	Loading and Unloading of Stone Boulder/ Stoneaggregates/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								
7	Time required for								
	i) Positioning of Tractor at loading point		1 Min						
	ii) Loading by front end loader 1 cum	7 1							
	bucket capacity @ 25 cum per hour		5 Min						
	iii) Maneuvering, reversing, dumping and		0 Min						
	turning for return		O IVIIII		THE N				
	iv) Waiting time, unforeseen		OMin						
	contingencies etc	10 - 1/4	0 Min						
	Total		6 Min						
	a) Labour		0.03	305.00	9.15				
	Mate	day	0.03	287.00	206.64				
	Mazdoor for loading and unloading	day	0.72	207.00	200.01				
	b) Machinery		6.1	549.10	54.91				
Je-III.	Tractor 3.60 tonnes capacity	hour	0.1	549.10	34.32				
	Front end-loader 1 cum bucket capacity			1402.00	116.45				
	@ 25 cum/hour	hour	0.083	1403.00	23.23				
	c) Overhead charges @ 0.06 on (a+b)				410.38				
	Cost for 2.25 cum = a+b+c+d				182.39				
	Rate per cum = (a+b+c+d)/ 2.25				102.55				
te:-	Unloading will be done manually.								
1	Suplying for Brick Bats (with OH )								
1.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00				
Α.	Add overhed Charges		6%	5.0	61.0				
	Total -				1078.0				
	Surface Lead	KM	7						
	Unsurface Lead	KM	1						
	Factor (3.6/2.25)	Cum	1.60						
В.	Carriage (with OH)				440.6				
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.$	39			410.0				
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with Ob	H)			383.1				
					1871.2				
	Total (A+B+C) -				18.7				
	Add 1% Labour Cess (A+B+C)				224.				
	Add 12% GST (A+B+C) Add 10% cost of Material for Seigniorage	e Fee	1	101.70	101.				
	Add 10% cost of Waterial for Seigniorage			Rs	2216.				