

# 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
KAURIYA TO DUBHA.

**ESTIMATED COST-**

3.03

Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

### Technical Report

F.D.R.(2020-21)

Name of Road:- Kauriya To Dubha.

Length of Road: 5.443 K.M

Name of Block:- Madhuban.

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

Package No:- BR-11R-262

Estimated Cost:- 3.03 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

J.E

10:12:20 A.E E.E. S. W.D.(w) Div. Pakridayal.

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KAURIYA TO DUBHA.

N	ame	01 WOIN.								#	
Hea	ad -	2245 Length- 5.443 K.M	it	9	ngth	Width	Height	Oth.	Rate	Amount	
No.	m No.	Name of Item	unit	Ż	Len	W	H	and the second	1	2.93	803.5
S	Item	i and Ihama Khoa of Stoffe Title	cum	184	As I Appe	Per ndix I		136.81825	2/47.4	303216.606	
1		Labour for laying dry graded manual transfer or laying an approved design, specification and direction of E/I.								303216.61	+
								Say Re	303000.00	293	3886

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 FOR THE IS accorded for Rs. 24.93,800.00

crore TWO lacs Ni. hety Thousand

crore hundred only S.E. (R.W.D.)
works Circi

Name of Work:-

## Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KAURIYA TO DUBHA.

#### Appendix - I

Measurement	for surfacing	the Breach	with	Brick Bats
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Sl. Chainage		Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum	
No.		9.500	3.00+2.80+2.00/3	0.300	6.630	
.00	0.00 - 0.800	8.500	2,300	0.300	3.110	
2.00	0.800-1.200	4.500	1.200	0.300	1.690	
3.00	1-200 - 1.350	4.700	3.750	0.450	5.906	
4.00	1.350- 1.400	3.500		0.300	8.640	
5.00	1.400 - 1.700	9.000	3.200	0.300	1.080	
6.00	1.40	1,800	2.000	0.300	2.340	
7.00		3.000	2.600	0.300	0.450	
8.00	1-700 - 2.000	2.500	0.600	0.300	2.592	
9.00	7,700-2.000	3.200	2.700		1.809	
0.00		6,700	0.900	0.300	1.296	
1.00	0 2050	5,400	0.800	0.300	2.110	
2.00	2-10- 2.050	4.700	1.500	0.300	8.640	
3.00	2.030 -2.300	7.200	3.000	0.400		
4.00		13.000	2.00+2.50+2.30/3	0.300	8.840	
5.00	230-2.400	3.500	1.500	0.400	2.100	
	2400-2.820	n - 2.820 15.500 3.000		0.600	27.900	
	2820-2.840	6.000	2.800	0.300	5.040	
STATE OF	2.840 - 2.900	3.000	2.800	0.300	2.520	
	2.500 3.000		0.200	1.500		
	3.000- 3.050	2.500	2.500	0.300	1.875	
	0 3-050 - 3.100	3.500	0.750	0.200	0.525	
	0 3-100-3.120	2.500	0.800	0.300	0.600	
23.0		3.400	1.500	0.200	1.020	
24.0		7.000	3.100	0.250	5.425	
	0 3.10 - 3.200	3.200	2.200	0.300	2.112	
26.0		4.000	2.200	0.300	2.640	
27.0		8.500	3.200	0.300	8.160	
		4.600	2.000	0.300	2.760	
28.0	12:200 3 250	4.600	2.200	0.300	3.036	
30.0		20.500	2.600	0.300	15,990	
-	00 8.30-3.350	1.400	1,000	0.300	0.420	
32.		2.400	1.600	0.300	1,152	

4

Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
	2.500	1.200	0.300	0.900
3.317 - 3.400	4.000	2.200	0.300	2.640
	4.000		Total	136.818

Junior Engineer

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

Executive Engineer, Rural Works Department,

Works Division, Pakridayal

Scanned with CamScanner

#### BRICK BATS PITCHING MANUAL MEANS

	BRICK BATS PITCHING	MANUAL	MEANS		Poulder					
6.6.1 WRD	Labour for laying dry graded Jhama Khoa Pitching in slope or apron including light ra	or stone mming et	filter under Bri c. all complete a	ck Pitching is per appro	ved design,					
Bihar	specification and direction of E/I.									
	Unit :- Per Cum									
	Taking Output = 2.832 Cum		3	287.00	861.00					
	Unskilled Mazdoor	los.	3		51.66					
	Add 6% Overhead Charges				912.66					
	Rate for 2.832 Cum		11 8/0 (0.00)		383.15 3					
	Rate per Cum (Rs.) -									
.4 RCD	Cost of Haulage Excluding Loading and Unloading Haulage of materials by Tractor excluding cost of loading, unloading and stacking.									
L.4 NCD	Haulage of materials by Tractor excluding co	ost of load	ding, unloading a	III Stadining						
	Taking output 3.60 tonnes load and lead 10	) km = 36.	U t.km	3008						
	(i) Surfaced Road	Contract Contract								
	Speed with load: 15 km / hour.									
	Speed while Returning empty :25 km / hou	r.								
	a) Machinery.			4,633,67						
	Tractor 3 6 tonne capacity	1	0.667	549.10	366.25					
	Time taken for onward haulage with load	hour	0.400	549.10	219.64					
	Time taken for empty return trip.	hour	0.100		35.15					
	b) Overhead charges @ 0.06 on (a)			Par disease	621.04					
	cost for 36 t km = a+b+c				17.25					
	Rate per t.km = $(a+b+c)/36$				17.25					
	Say Rs	A PLANTE OF		Feliging						
	(ii) Unsurfaced Graveled Road									
	Greed with load: 12 km / hour									
	Speed with load: 22 km / hou	r			Can but have a south as the					
	a) Machinery									
- No element	Tartor 3 6 tonnes capacity		0.93	3 549.1	0 457.40					
	to for onward haulage With load	hour hour	0.83	, ,	-					
	Time taken for empty return trip hour 0.	50 hour	0.50	349.1	43.92					
-	b) Overhead charges @ 0.06 on (a)				775.8					
-	Cost for 36 t .km = a+b+c 840.34				21.5					
	Rate per t.Km = $(a+b+c)/36$ 23.34				21.5					
					21.5					
	Say Rs									

RCD	Placing Tractor at loading point, loading	with frontion	ader, dumping,	turring	
	excludingfor haulage and return trip	16.711.01			
	Unit = cum				
	Taking output = 2.25 cum				
	Time required for		1 Min	(44)	
	i) Positioning of Tractor at loading point	A	Tiviiii		
	ii) Loading by front end loader 1 cum				
	bucket capacity @ 25 cum per hour		5 Min		
	iii) Maneuvering, reversing, dumping and		OMin		
	turning for return		0 Min		
	iv) Waiting time, unforeseen		0 Min		
	contingencies etc		6 Min		
	Total	sever out of	O IVIIII		
	a) Labour		0.03	305.00	9.15
	Mate	day	0.72	287.00	206.64
	Mazdoor for loading and unloading	day	0.72		
	b) Machinery	hour	0.1	549.10	54.91
	Tractor 3.60 tonnes capacity	nour	0.1		
	Front end-loader 1 cum bucket capacity	hour	0.083	1403.00	116.45
	@ 25 cum/hour	lioui			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				
ote:-	Unloading will be done manually.				
1.	Suplying for Brick Bats (with OH )			1017.00	1017.00
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	
7,1	Add overhed Charges		6%		61.02
	Total -				1078.02
	o feedland	KM	7		be a second
	Surface Lead Unsurface Lead	KM	1	Contract of	
	Factor (3.6/2.25)	Cum	1.60		
B.	Carriage (with OH)	30			410.0
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.	39			120.0
C.	Cost of Labour for Pitching and Light				322:25
	Ramming as per WRD SOR 6.6.1 (with Ob	1)			383.1
				1810	1361871.2
	Total (A+B+C) -			18.	10 18.7
	Add 1% Labour Cess (A+B+C)				24 224.5
	Add 10% cost of Material for Spigniorage	Foo	1	217.	
	Add 10% cost of Material for Seigniorage	ree			
				Rs	2/4