

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 KAJRAHA NONIA TOLI TO
MAHUBAN SHEOHAR SIMA.

ESTIMATED COST-

1.26 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Kaurya Kajraha Noniya Toli To Madhuban Sheohar Sima.

Length of Road:- 0.850 K.M

Name of Block:- Madhuban.

Project Head:- G.T.S.N.Y.

Package No:-

Estimated Cost:- 1.26 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.

W 10:12:2026

10.11 20 A.E

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

ame of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KAURIYA KAJRAHA
NONIA TOLI TO MAHUBAN SHEOHAR SIMA.

2245 Length- 0.850 K.M			타	£	T I	÷	Rate	Amount
Name of Item	unit	No.	Length	Width	Height	Qty	ů.	An
had Thoma Khoa or stone file	ter cum		As Per Appendix I				100	12192
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.	r		Appe	nuix i		56.7825	2246.20	125841.377
								125841.38

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

TATE is accorded for Rs. 121900. Del crore. O.M. lacstwenty oul thousand thousand hundred see. (R.W.D.) works Circle

Jame of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KAURIYA KAJRAHA NONIA TOLI TO MAHUBAN SHEOHAR SIMA.

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	0-00-0.110	2.500	2.500	0.300	1.875	
	0-110 - 0.140	3.500	3.300	0.450	5.198	
3.00		3.000	2.000	0.600	3.600	
	0-140 - 0.220	6.500	2.800	0.300	5.460	
5.00		7.500	1.100	0.300	2.475	
6.00		4.500	3.500	0.300	4.725	
-		11.000	1.000	0.450	4.950	
7.00	- C 47 V N - (1 1 1 1) (1	1.500	2.500	0.400	1.500	
		30.000	3.000	0.300	27.000	
9.00	100	30.000		Total	56.783	

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

6.6.1	Labour for laying dry graded Jhama Kho								
WRD	Pitching in slope or apron including light	ramming	etc. all complete	as per appro	ved design,				
Bihar	specification and direction of E/I.								
	Unit :- Per Cum								
	Taking Output = 2.832 Cum	Tremes.							
	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 10) 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								
	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				
	war a service by a case of the service of	ther disch		3007.00					
	(ii) Unsurfaced Graveled Road	tener.							
	Speed with load: 12 km / hour								
	Speed for empty return trip :20 km / hour								
	a) Machinery								
	Tractor 3.6 tonnes capacity			election of the second					
	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	274.55				
	b) Overhead charges @ 0.06 on (a)				43.92				
	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			2	21.55				

(CD	Load	ing and Unloading of Stone Boulder/ St	ith 1	frontload	er, dumpin	g, tur	nin	g for ret	turn trip,	
	Placi	ng Tractor at loading point, loading								
		udingfor haulage and return trip		To Land						
		= cum								1
		ng output = 2.25 cum								1
	Time	e required for		100	1 Min				<u> </u>	+
	i) Po	ositioning of Tractor at loading point	_							
	ii) L	oading by front end loader 1 cum			5 Min					
		ket capacity @ 25 cum per hour			2 IVIIII	+				
		Maneuvering, reversing, dumping and			0 Min			-		+
	tur	ning for return								
		Waiting time, unforeseen			0 Min			_		1
	_	ntingencies etc		TOTAL S	6 Min			-		7
		tal							q	15
10.34	a) Labour			y	0.03		305.00		206	_
	Mate		da	The state of the s	0.72		2	87.00	200	-07
		lazdoor for loading and unloading	1						E /	.91
	b	b) Machinery		our	0.1		5	49.10	54	.51
	T	ractor 3.60 tonnes capacity	+	, a.		0			441	- 15
	Front end-loader 1 cum bucket capacity		h	our	0.083		14	103.00		5.45
	0	a 25 cum/hour	-	Jui						3.23
	-	Overhead charges @ 0.06 on (a+b)	+							0.38
	10	Cost for 2.25 cum = a+b+c+d	+						18	2.39
	- 1	Pate per cum = (a+b+c+d)/ 2.25	+			ME				
Note:-		Unloading will be done manually.	+			100				
Note.			1							
		Suplying for Brick Bats (with OH)	_				-	1017.00	10	17.00
1.		Basic Rate of Brick Bats	1	Per Cum		6%				61.02
Α.	-	Add overhed Charges				070			10	78.02
115		Total -	18 11	KM		7				
		Surface Lead		KM		1				
		Unsurface Lead		A COUNTY OF THE PARTY OF	1.60					
-		Factor (3.6/2.25)		Cum			+			
							+			410.0
E	3.	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 1	82.3	9			1			410.0
	C.	Cost of Labour for Pitching and Light								383.1
	C.	Ramming as per WRD SOR 6.6.1 (with	OH)			1			
										1871.2
		Total (A+B+C) -								18.
		Add 1% Labour Cess (A+B+C)								224.
	188	Add 12% GST (A+B+C)					1	101.	70	101.
		Add 10% cost of Material for Seignion	rage	ree				Rs		2216.
		Total Cost per Cum	1.56				N. Carlot	V2'-		