

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR(2245) YEAR 2020-21

DISTRICT: East Champaran

BLOCK :- Patahi

Estimate for Repair of Road breaches

(Damaged by Flood) for Motoribility in MAGNI

CHOWK TO ALISHERPUR VIA PADUMKER.

ESTIMATED COST -

3.34

Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Magni Chowk To Alisherpur Via Padumker.

Length of Road: 3.400 K.M

Name of Block:- Patahi

Project Head:- New Maintenance Policy 2018

Package No:- M.R. –N/2019-20 Pakridayal/06

Estimated Cost:- 3.34 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 maintenance/out of maintenance.

Construction) 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.

J.E

A.E.

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

me of Work:-

2245

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MAGNI CHOWK TO ALISHERPUR VIA PADUMKER.

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. As Per Appendix I 150.86735 2216.20 334352.221	SI No.	Item No.	Name of Item	nnit	No	Length	Width	Height	Othy.	Rate	Amount
	1		apron including light ramming etc. all complete as per	cum			-		150.867 35	2216.20 2147=40	-3 34352.221 3 2 3 9 7 1 =

9/12/20

Junior Engineer, Rural Works Department, Works Section, Patahi

Assistant Engineer, Rural Works Department, Works Sub Division, Patahi

Executive Engineer, Rural Works Department, Works Division, Pakridayal

334000.00

Say Re

TAILS is accorded for Rs. 3,24,000 = ~

(crore Three lacs Twenty Four thousand hundred) only.

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

works Circle Motibari

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MAGNI CHOWK TO ALISHERPUR VIA PADUMKER.

	Think to profession		Appendix - I		And the Land
		Measurement f	or surfacing the Breach with	Brick Bats	
Sl. No.	Chainage	Length (M) Avg. Width In Meter		Avg. Depth In Meter	Quantity (Cum)
1.00	1:500 - 2.000	11.500	3.000		
2.00	2.000 - 2.100	12.750		0.400	13.800
3.00	2100 - 2.200		5.700	0.650	47.239
	2.260 - 2.300	6.000	2.000	0.650	7.800
	2-300- 2.400	15.900	5.800	0.450	41.499
		11.350	3.800	0.550	
	2-400 - 2.450	7.600	2.200		23.722
7.00	2.450 - 2.600	4.650	1.800	0.780	13.042
			1.000	0.450	3.767
	^		THE SEMESTRUSTED IN COLUMN TO SEE	Total	150 867

Junior Engineer Rural Works Department, Works Section, Patahi

Asistant Engineer Rural Works Department, Works Sub Division, Patahi

Executive Engineer, Rural Works Department, Works Division, Pakridayal

BRICK BATS PITCHING MANUAL MEANS

WRD Bihar	Pitching in slope or apron including light specification and direction of E/I.	trammin	g etc. all complet	Brick Pitching	g or Bould							
Bihar	specification and direction of E/I.			and the or aproli ilicidating light ramming etc. all committee								
	specification and direction of E/I.											
	Unit :- Per Cum	A Marian										
	Taking Output = 2.832 Cum											
	Unskilled Mazdoor	Nos.	3	287.00	861.0							
	Add 6% Overhead Charges		3	287.00	51.6							
	Rate for 2.832 Cum				912.6							
	Rate per Cum (Rs.) -				383.1							
.4 RCD	Cost of Haulage Excluding Loading and L											
	Cost of Haulage Excluding Loading and Unloading Haulage of materials by Tractor excluding cost of loading, unloading and stacking.											
	Unit = t.km	cost of lo	ading, unloading a	nd stacking.								
		01 01										
	Taking output 3.60 tonnes load and lead 1 (i) Surfaced Road	0 km = 36	5.0 t.km									
	Speed with load : 15 km / hour.	E-AT	0.0									
	Speed while Returning empty :25 km / hou	ur.			H-W							
	a) Machinery.											
	Tractor 3.6 tonne capacity	nout		(FT) = 0 (FT)								
	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			161770	101 00							
	Speed with load: 12 km / hour	3.181										
	Speed for empty return trip :20 km / hour											
	a) Machinery	Device the second										
	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)			- 12.20	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				21.55							

	Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moorum							
	lacing Tractor at loading point, loading with frontloader, dumping, turning for return trip							
	excludingfor haulage and return trip							
	Unit = cum							
	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	9.1			
	Mazdoor for loading and unloading	day	0.72	287.00	206.6			
	b) Machinery		2781	4 人口作时				
1100	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.9			
	Front end-loader 1 cum bucket capacity							
	@ 25 cum/hour	hour	0.083	1403.00	116.4			
	c) Overhead charges @ 0.06 on (a+b)	No. 12 T		1777	23.2			
	Cost for 2.25 cum = a+b+c+d	A STATE OF			410.3			
	Rate per cum = (a+b+c+d)/ 2.25		A STATE OF	A MADE	182.3			
Note:-	Unloading will be done manually.							
	The state of the s							
1.	Suplying for Brick Bats (with OH)	Per Cum		1017.00	1017.0			
Α.	Basic Rate of Brick Bats	rei cuiii	6%	101/100	61.0			
	Add overhed Charges		0,0		1078.0			
	Total -							
	Surface Lead	KM	7					
	Unsurface Lead	KM	1 (2)					
	Factor (3.6/2.25)	Cum	1.60					
B.	Carriage (with OH)							
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182	39			410.0			
C.	Cost of Labour for Pitching and Light							
	Ramming as per WRD SOR 6.6.1 (with OH)			383.			
	Total (A+B+C) -				1871.			
	Add 1% Labour Cess (A+B+C)				18.			
	Add 12% GST (A+B+C)				224.			
	Add 10% cost of Material for Seigniorage	Fee	1	101.70	101.			
	Total Cost per Cum			Rs	2216.			