

## ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## PLAN HEAD- FDR(2245) YEAR 2020-21

DISTRICT: - East Champaran

BLOCK:- Phenhara

Estimate for Repair of Road breaches
(Damaged by Flood) for Motoribility in
MANKARWA CHOWK TO ANSARI TOLA.

ESTIMATED COST - 1.53 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Name of Road:- Mankarwa Chowk To Ansari Tola.

Length of Road: 1.074 K.M

Name of Block:- Phenhara

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

Package No:-

Estimated Cost:- 1.53 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

A.E IOIIN

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

of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MANKARWA CHOWK
TO ANSARI TOLA.

		a - 2245 Length- 1.074 K.M										
1		Item No.	Name of Item	unit	S.	Length	Width	Height	Qty.	Rate	Amount	
1	1		Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulder Pitching in slope or	cum		As P Appen			To Gapte	In Tour	ation of an	
			apron including light ramming etc. all complete as per						68.88	2216.20	152651.856	
			approved design, specification and direction of E/I.							2147=40	152651.856 147918 =	90
						-			TC	TAL (in Re.)	152651.86	-

Say Re

153000.00

1,47,900=~

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

Executive Engineer, Rural Works Department, Works Division, Pakridayal

Post Feet	T.A./T/S is accorded	for Rs. 1, 47	,900 = W
			Forty Seven thousand
			only
			1 4 0
			S.E. (R.W.D.)
			S.E. (R.W.D.) works Circle
•		ب المالية .	Motihari
			20114

ne of Work:-

## Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MANKARWA CHOWK TO ANSARI TOLA.

1,100	Appendix - I									
	Measurement for surfacing the Breach with Brick Bats									
SI	( hainaga	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)					
1.0	0 0.00 - 1.020	28.000	4.100	0.600	68.880					
				Total	68.880					

10.12.2020

Junior Engineer Rural Works Department, Works Section, Phenhara Asistant Engineer Rural Works Department, Works Sub Division, Phenhara Executive Engineer, Rural Works Department, Works Division, Pakridayal

## BRICK BATS PITCHING MANUAL MEANS

1.1	Labour for laying dry graded Jhama Kho	oa or sto	ne filter under B	rick Pitching	or Boulder			
NRD	Pitching in slope or apron including light ramming etc. all complete as per approved design,							
Bihar	specification and direction of E/I.				-			
1								
	Unit :- Per Cum							
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.	3	287.00	861.00			
	Add 6% Overhead Charges		The State of the S		51.66			
	Rate for 2.832 Cum				912.66			
	Rate per Cum (Rs.) -		THE PROPERTY AND		383.15			
1.4 RCD	Cost of Haulage Excluding Loading and Un			1 . 11				
	Haulage of materials by Tractor excluding	cost of loa	ding, unloading a	nd stacking.				
	Unit = t.km				777			
	Taking output 3.60 tonnes load and lead 10	0 km = 36.	0 t.km					
	(i) Surfaced Road							
	Speed with load : 15 km / hour.							
	Speed while Returning empty :25 km / hou		1.344.14					
The Hall	a) Machinery.							
	Tractor 3.6 tonne capacity	The state of the s		340 840				
	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			
Madente	cost for 36 t km = a+b+c				621.04			
	Rate per t.km = $(a+b+c)/36$				17.25			
	Say Rs			the later to the	17.25			
MI ZII	Busine starp and in ick busts of	Per Cutti		texton.	1, 1000			
	(ii) Unsurfaced Graveled Road		Darby - State		0.00			
	Speed with load: 12 km / hour				11,500			
	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	274.55			
	b) Overhead charges @ 0.06 on (a)	80000			43.92			
	Cost for 36 t .km = a+b+c 840.34				775.87			
The state of	Rate per t.Km = $(a+b+c)/36$ 23.34				21.55			
	Say Rs	Landa de la constante de la co			21.55			
	oay no				2.1071.2			

1/2	1		cates/Sand /Va	nker/Mooru	m				
1	Loading and Unloading of Stone Boulder/ S	toneaggre	gates/Sand/Ka	turning for	m roturn trin				
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip,								
	excludingfor haulage and return trip								
1	Unit = cum								
	Taking output = 2.25 cum								
	Time required for								
	i) Positioning of Tractor at loading point		1 Min	Appendix 1					
	ii) Loading by front end loader 1 cum								
	bucket capacity @ 25 cum per hour		5 Min						
	iii) Maneuvering, reversing, dumping and		O Maio						
	turning for return		0 Min						
	iv) Waiting time, unforeseen								
	contingencies etc		0 Min						
	Total		6 Min						
	a) Labour				0.45				
	Mate	day	0.03	305.00	9.15				
	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				
Note:-	Unloading will be done manually.								
Note	Officiality will be delice than y								
1.	Suplying for Brick Bats (with OH )								
A.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00				
Α.	Add overhed Charges		6%		61.02				
	Total -				1078.02				
	Surface Lead	KM	7						
	Unsurface Lead	KM	1						
	Factor (3.6/2.25)	Cum	1.60						
В.	Carriage (with OH)								
D.	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.3$	39			410.07				
C.	Cost of Labour for Pitching and Light								
	Ramming as per WRD SOR 6.6.1 (with OH	)	Husiya.		383.15				
The same	Total (A+B+C) -	Matura 25-			1871.24				
	Add 1% Labour Cess (A+B+C)				18.71				
	Add 12% GST (A+B+C)				224.55				
	Add 10% cost of Material for Seigniorage	Fee	1	101.70	101.70				
THE RESERVE	Total Cost per Cum			Rs	2216.20				