

# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

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

DISTRICT :- East Champaran

BLOCK :- Patahi Tetaria

Estimate for Repair of Road breaches
(Damaged by Flood) for Motoribility in

NARAYANPUR CHOWK P.M.G.S.Y ROAD TO2

TO LAHLADPUR NANKAR.

ESTIMATED COST - 5.53 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Name of Road:- Narayanpur Chowk P.M.G.S.Y. Road T02 To Lahladpur Nankar.

Length of Road:- 1.275 K.M

Name of Block:- Tetaria

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

Package No:- N/A

Estimated Cost: 5.53 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 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.

IE

A.E

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

ne of Work:-

### Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in NARAYANPUR CHOWK P.M.G.S.Y ROAD T02 TO LAHLADPUR NANKAR.

ad -	2245 Length-1.275 K.M									1
Item No.	Name of Item	unit	No	Length	Width	Height	Oty.	Rate	Amount	
	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 F Apper	1 The State of the		249.3525	-2216.20 2147=40	552615.011 535458	?=5
							TC	TAL (in Re.)	552615.01	

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

Executive Engineer, Rural Works Department, Works Division, Pakridayal

553000.00

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 me of Work:-

# Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in NARAYANPUR CHOWK P.M.G.S.Y ROAD T02 TO LAHLADPUR NANKAR.

#### 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	6.00-0.600	14.000	3.200	1.800	80.640
	6-600-1.000	13.000	3.750	1.300	63.375
3.00		45.000	1.250	0.550	30.938
4.00		10.000	3.100	2.400	74.400
1.00				Total	249.353

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

### BRICK BATS PITCHING MANUAL MEANS

6.6.1	Labour for laying dry graded Jhama Kho Pitching in slope or apron including light	a or stor	etc. all complete	as per api	or boulde proved design			
WRD				p p				
Bihar	specification and direction of E/I.							
	Li ii Bar Com							
	Unit :- Per Cum							
	Taking Output = 2.832 Cum	Man	3	287.00	861.0			
	OTISKIIICA IVIAZAOOT	Nos.	3	207.00	51.6			
	Add 6% Overhead Charges				912.6			
	Rate for 2.832 Cum				383.1			
	Rate per Cum (Rs.) -				363.1			
.4 RCD	Cost of Haulage Excluding Loading and Unloading							
	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
and the second	Unit = t.km							
	Taking output 3.60 tonnes load and lead 10	0 km = 36.	0 t.km					
	(i) Surfaced Road		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Male Control				
	Speed with load: 15 km / hour.							
	Speed while Returning empty :25 km / hou		545 74					
	a) Machinery.							
	Tractor 3.6 tonne capacity			A MANAGEMENT				
	Time taken for onward haulage with load	hour	0.667	549.10	366.2			
	Time taken for empty return trip.	hour	0.400	549.10	219.6			
	b) Overhead charges @ 0.06 on (a)	100			35.1			
	cost for 36 t km = a+b+c				621.0			
	Rate per t.km = $(a+b+c)/36$	Santania (se q			17.2			
	Say Rs				17.2			
	(ii) Unsurfaced Graveled Road							
	Speed with load: 12 km / hour		The state of the s					
	Speed for empty return trip :20 km / hour							
	a) Machinery							
	Tractor 3.6 tonnes capacity							
	Time taken for onward haulage with load h	hour	0.000					
	Time taken for empty return trip hour 0.50		0.833	549.10	457.4			
	b) Overhead charges @ 0.06 on (a)	nour	0.500	549.10	274.5			
	Cost for 36 t .km = a+b+c 840.34				43.9			
HALL	Rate per t.Km = (a+b+c)/36 23.34				775.8			
	Say Rs				21.5			
					21.5			

% cost of Material for Seigniorage F	ee	1	101.70	101.70
	00	AND DESCRIPTION OF THE PERSON		
1				224.55
% GST (A+B+C)				18.71
Labour Cess (A+B+C)				1871.24
+B+C) -				383.15
Labour for Pitching and Light ng as per WRD SOR 6.6.1 (with OH)	q.			
× 17.25) + (1.6 × 1 × 21.55) + 182.3	9			410.0
e (with OH)				
	Cum	1.60		
3.6/2.25)		1 1 60		
ice Lead	KM	7		
Lead	KNA			1070.07
				1078.02
erhed Charges		6%	-7200	61.02
ate of Brick Bats	Per Cum		1017.00	1017.00
g for Brick Bats (with OH )				
ing will be dolle manually.				
r cum = (a+b+c+d)/ 2.25 ng will be done manually.				182.39
2.25 cum = a+b+c+d				410.38
nead charges @ 0.06 on (a+b)			AL CIRCLE	23.23
m/hour	hour	0.083	1403.00	116.45
id-loader 1 cum bucket capacity				
3.60 tonnes capacity	hour	0.1	549.10	54.9
inery				
for loading and unloading	day	0.72	287.00	206.6
	day	0.03	305.00	9.1
r				
		6 Min		
ncies etc		0 Min		
g time, unforeseen				
or return		0 Min		
ivering, reversing, dumping and				
pacity @ 25 cum per hour		5 Min		
by front end loader 1 cum				
ing of Tractor at loading point		1 Min		
ired for				
actor at loading point, loading	with frontic	pader, dumpir	ng, turning	for return tri
or or tpu	tor at loading point, loading haulage and return trip	tor at loading point, loading with frontlo haulage and return trip  ut = 2.25 cum	tor at loading point, loading with frontloader, dumpir haulage and return trip  ut = 2.25 cum ed for	at = 2.25 cum ed for