

# 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
GHEGHAWA PATHAK TOLA TO TO3
MADHUBAN TETARIA P.W.D ROAD.

**ESTIMATED COST-**

4.60

Lacs

4.46

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

### F.D.R.(2020-21)

## Technical Report

Name of Road:- Gheghawa Pathak Tola To T03 Madhuban Tetaria P.W.D. Road.

Length of Road:- 1.25 K.M

Name of Block:- Tetaria

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

Package No:-

Estimated Cost:- 4.60 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.

J.E

08:12:20 A.E

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

me of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in GHEGHAWA PATHAK TOLA TO T03 MADHUBAN TETARIA P.W.D ROAD.

ttern No.	Name of Item	the court	2	Length	Width	Height	Š	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.	cum		As F Apper			207.76	-2216.20 2/47=40	460437.712 4967434
L							T	OTAL (in Re.)	460437.71

Assistant Engineer, Rural Works Department,

Works Sub Division, Tetaria

Executive Engineer, Rural Works Department, Works Division, Pakridayal

Junior Engineer, Rural Works Department, Works Section, Tetaria

> Post Facto TAITS is accorded for Rs. 4.46,100 = 40 ( \_\_\_\_\_\_crore\_Focus\_ lacsForty Six thousand One hundred ......) only S.E. (R.W.D.) works Circle Motihari

ame of Work:-

## Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in GHEGHAWA PATHAK TOLA TO T03 MADHUBAN TETARIA P.W.D ROAD.

		F 37 672	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	0.000-0.200	8.900	5.80+3.40/2	2.900	118.730				
2.00	0.200 - 0.700	19.000	3.750	1.60+0.50/2	74.810				
3.00	0.700 - 0.750	2.500	5.00+3.75/2	1.300	14.220				
				Total	207.760				

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 Kh	oa or sto	one filter under E	Brick Pitching	g or Boulde			
WRD	Pitching in slope or apron including light ramming etc. all complete as per approved design							
Bihar	specification and direction of E/I.							
	Unit :- Per Cum			ur verra in the co				
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.	3	287.00	861.00			
	Add 6% Overhead Charges		Contract of the Contract of th		51.66			
	Rate for 2.832 Cum				912.66			
	Rate per Cum (Rs.) -		2.2800		383.19			
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	1	ading, dilibading a	ilu stacking.				
	Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km							
	(i) Surfaced Road	T Je	J.O C.KIII					
	Speed with load : 15 km / hour.							
	Speed while Returning empty :25 km / hou							
	a) Machinery.	1						
	Tractor 3.6 tonne capacity	Tropped a	- 6.00					
	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				
	b) Overhead charges @ 0.06 on (a)		0.400	343.10	219.64 35.15			
	cost for 36 t km = a+b+c				621.04			
	Rate per t.km = $(a+b+c)/36$							
	Say Rs				17.25 17.25			
	(ii) Unsurfaced Graveled Road	Partin		抽制模型				
	Speed with load: 12 km / hour							
	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	hour	0.833	549.10	457.40			
	b) Overhead charges @ 0.06 on (a)	nour	0.500	549.10	274.55			
	Cost for 36 t .km = a+b+c 840.34				43.92			
	Rate per t.Km = $(a+b+c)/36\ 23.34$				775.87			
1-	Say Rs				21.55			
					21.55			

	Total Cost per Cum			Rs	101.70			
	T		1	101.70	101.70			
	Add 10% cost of Material for Seigniorage Fo	ee			224.55			
	Add 12% GST (A+B+C)				18.71			
	Add 1% Labour Cess (A+B+C)				1871.24			
	Total (A+B+C) -				383.15			
	Ramming as per WRD SOR 6.6.1 (with OH)							
C.	Cost of Labour for Pitching and Light				410.07			
υ.	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39	9						
В.	Carriage (with OH)		1.60					
	Factor (3.6/2.25)	Cum	1 1 60					
	Unsurface Lead	KM	7					
	Surface Lead	KM	7		1078.02			
	Total -				1078.02			
	Add overhed Charges		6%	3200	61.02			
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00			
1.	Suplying for Brick Bats (with OH)							
lote:-	Unloading will be done manually.				182.39			
	Rate per cum = $(a+b+c+d)/2.25$		WATER CHOICE IN		410.38			
	Cost for 2.25 cum = $a+b+c+d$				23.23			
	c) Overhead charges @ 0.06 on (a+b)	hour	0.083	1403.00	116.45			
	@ 25 cum/hour	havii	0.000	4.00				
	Tractor 3.60 tonnes capacity  Front end-loader 1 cum bucket capacity	hour	0.1	549.10	54.9			
	b) Machinery							
	Mazdoor for loading and unloading	day	0.72	287.00	206.6			
	Mate	day	0.03	305.00	9.1			
	a) Labour							
	Total		6 Min					
	contingencies etc		0 Min					
	iv) Waiting time, unforeseen							
	turning for return		0 Min					
	iii) Maneuvering, reversing, dumping and							
	bucket capacity @ 25 cum per hour		5 Min					
	ii) Loading by front end loader 1 cum							
	i) Positioning of Tractor at loading point		1 Min					
	Time required for							
	Taking output = 2.25 cum	N. W. All						
	Unit = cum							
	excludingfor haulage and return trip							
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return to							
1	Placing tractor at loading point, loading	g with from	lloader, dump	ing, turning	for return to			