

## 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 PATAHI

SUGAPIPAR TO GONAHI PURVI TOLA.

ESTIMATED COST -

8.50 Lacs 8.24100

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

#### **Technical Report**

F.D.R.(2020-21)

Name of Road:- Patahi Sugapipar To Gonahi Purvi Tola.

Length of Road:- 2.168 K.M

Name of Block:- Patahi

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

Package No:-

Estimated Cost:- 8.50 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.

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A.E. Trafactoro

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

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Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PATAHI SUGAPIPAR TO GONAHI PURVI TOLA.

r	пе	ad -	2245 Length- 2.168 K.M									
	SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount	
	1		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 P Appen			383.76	-2216.20° 2/47=40	850488.912 824086	22
			<u> </u>						TO	TAL (in Re.)	850488.91	_

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

850000.00

Say Re

Name of Work:-

### Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PATAHI SUGAPIPAR TO GONAHI PURVI TOLA.

			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	3.000	0.800	21.360				
2.00	0 200 - 1.600	15.600	3.750	1.600	93.600				
3.00	1,600 - 2.000	22.400	4.5+3.50/2	3.5+2.5/2	268.800				
			The state of the s	Total	383.760				

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

6.6.1	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulder								
WRD	The state of the s								
Bihar	. and uncedion of E/1.								
	Unit :- Per Cum								
	Taking Output = 2.832 Cum								
	Unskilled Mazdoor	Nos.	3	287.00	861.00				
	Add 6% Overhead Charges			207.00	51.66				
	Rate for 2.832 Cum				912.66				
	Rate per Cum (Rs.) -				383.15				
1.4 RCD	Cost of Harden 5 1 11 11 11								
1.4 KCD	Cost of Haulage Excluding Loading and Ur		At the Albertain						
	Haulage of materials by Tractor excluding	cost of loa	ading, unloading a	nd stacking.					
	Unit = t.km								
	Taking output 3.60 tonnes load and lead 1	0 km = 36	5.0 t.km	305 00					
	(i) Surfaced Road	107		100					
	Speed with load : 15 km / hour.								
	Speed while Returning empty :25 km / hou	ır.		16.5	3 3 3 3				
	a) Machinery.	4-1-1-1							
	Tractor 3.6 tonne capacity	ARCH INC.		4402.00					
	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	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 = $(a+b+c)/36$			promote the same	17.25				
	Say Rs				17.25				
	(ii) Unsurfaced Graveled Road			1017.00	103.70				
	Speed with load: 12 km / hour								
	Speed for empty return trip :20 km / hour								
	a) Machinery		1 - 24 / 10 / 10						
	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	274.5				
	b) Overhead charges @ 0.06 on (a)			3 13.10	43.9				
	Cost for 36 t .km = a+b+c 840.34								
	Rate per t.Km = $(a+b+c)/36 23.34$				775.8				
	Say Rs				21.5				
		E No.			21.55				

	Total Cost per Cum			Rs	2216.2
	Add 10% cost of Material for Seigniorage Fe	ee	1	101.70	101.7
12.41 Sevil	Add 10% cost of Material 6				224.5
	Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C)				18.7
	Add 1% Labour Cess (A+B+C)				1871.2
	Ramming as per WRD SOR 6.6.1 (with OH) Total (A+B+C) -				383.1
Č.	Cost of Labour for Pitching and Light				
C.					410.0
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39				
B.	Carriage (with OH)		1.00		
	Factor (2.6/2.25)	Cum	1.60		
	Unavurface Leed	KM	1		
	Surface Lead	KM	7		
	Total -				1078.0
	Add overhed Charges		6%	La fame	61.0
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.0
1.	Suplying for Brick Bats (with OH )				
Note:-	Unloading will be done manually.				102.3
	Rate per cum = $(a+b+c+d)/2.25$				182.3
	Cost for 2.25 cum = a+b+c+d	.6.			410.3
	c) Overhead charges @ 0.06 on (a+b)		2.003	1,05.00	23.2
	@ 25 cum/hour	hour	0.083	1403.00	116.4
	Front end-loader 1 cum bucket capacity	di	0.1	343.10	34.9
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.9
	b) Machinery	uay	0.72	287.00	206.6
	Mazdoor for loading and unloading	day	0.03 0.72	305.00	9.1
	Mate	day	0.03	205.00	0.1
	a) Labour		6 Min		
	Total		0 Min	200	
	contingencies etc				
	iv) Waiting time, unforeseen		0 Min		
	iii) Maneuvering, reversing, dumping and turning for return				
			5 Min		
	bucket capacity @ 25 cum per hour				
	ii) Loading by front end loader 1 cum		1 Min		
	i) Positioning of Tractor at loading point				
	Time required for				
	Taking output = 2.25 cum				
	Unit = cum			O, santing (	or return th
	Placing Tractor at loading point, loading excludingfor haulage and return trip	g with from	ntloader, dumpi	ng, turning f	or roturn to
	Loading and Unloading of Stone Boulder Placing Tractor at loading point, loading	, otolicage	regates/Sand /	Kanker/Moo	Kilina