

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

GONAHI PITCH ROAD ANUSUCHIT JATI

TOLA TO SUGAPIPAR BAZAR.

ESTIMATED COST -

8.82

Lacs

SUBMITTED BY: EXECUTIVE ENGINEER, RWD WORKS DIVISION, PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Gonahi Pitch Road Anusuchit Jati Tola To Sugapipar Bazar.

Length of Road:- 1.800 K.M

Name of Block:- Patahi

Project Head:- 4515 (SCP)

Package No:-

Estimated Cost:- 8.82 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.

IF

A.E.

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in GONAHI PITCH ROAD ANUSUCHIT JATI TOLA TO SUGAPIPAR BAZAR.

Head - 2245

Length- 1.800 KM

	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.	cum		As P Appen			397.842	_2216.20 2/47=40	-881697.44 354325	=90
1								TC	OTAL (in Re.)	881697.44	254

Say Re

882000.00

8,54300= 0

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

SE. (RIW.D.)
works Circle
Motihari

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in GONAHI PITCH ROAD ANUSUCHIT JATI TOLA TO SUGAPIPAR BAZAR.

	Appendix - I
/	asurement for surfacing the Breach with Brick Ba

Sl. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum
.00	0.000-0.100	11.300	3.400	0.800	30.736
.00	0.100 - 0.300	17.500	4.5+3.60/2	1.500	106.310
	0.300 - 0.800	6.500	3.600	1.200	28.080
	0.800 - 0.900	17.400	3.400	0.850	50.286
.00	0.900 - 1.000	15.900	3.750	1.200	71.550
.00	1.000 - 1.100	14.800	3.750	1.200	66.600
.00	1.100 -1.600	12.300	3.600	1.000	44.280
	_		CZ, librar for heavy start for use, and	Total	397.842

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 Khi	oa or sto	ne filter under B	ulek bitebie					
WRD	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 Ed.								
Bihar	specification and direction of E/I.								
	Unit : Box Com	50							
	Unit :- Per Cum	nie este de							
	Taking Output = 2.832 Cum								
	Unskilled Mazdoor	Nos.	3	287.00	861,00				
	Add 6% Overhead Charges				51,66				
	Rate for 2.832 Cum				912.66				
	Rate per Cum (Rs.) -				383,15				
1.4 RCD	Cost of Haulage Excluding Loading and Unloading								
	Haulage of materials by Tractor excluding		ding, unloading a	nd stacking.					
	Unit = t.km			a statement					
	Taking output 3.60 tonnes load and lead 1	0 km = 36	.0 t.km						
	(i) Surfaced Road			THE STATE OF					
***************************************	Speed with load : 15 km / hour.								
	Speed while Returning empty :25 km / hou	ir.							
	a) Machinery.								
	Tractor 3.6 tonne capacity	75000	2.008.03.00						
	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				
Especial Control	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								
Annual Control of the	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	0.833	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)			CONTROL OF THE PARTY NAMED IN COLUMN	43.92				
	Cost for 36 t .km = a+b+c 840.34	Later Medicals			775.87				
	Rate per t.Km = $(a+b+c)/36 23.34$			CARLES OF THE PARTY OF THE PART	21.55				
	Say Rs				21.55				
			Name of the second seco						

RCD	Loading and Unloading of Stone Boulder/	Stoneaggre	gates/Sand /Ka	nker/Moorur	n l			
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return tr							
	excludingfor haulage and return trip		,	, tarring for	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					
-1	Total		6 Min					
	a) Labour							
	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.							
1.	Suplying for Brick Bats (with OH)							
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00			
	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)							
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.$	39			410.0			
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OF				383.1			
	Total (A+B+C) -				1871.2			
	Add 1% Labour Cess (A+B+C)				18.7			
	Add 1% Eabour Cess (A-B-C) Add 12% GST (A+B+C)				224.5			
	Add 10% cost of Material for Seigniorage	Fee	1	101.70	101.7			
	Total Cost per Cum			Rs	2216.20			