

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

SHIKARGANG PATAHI PITCH ROAD AT

DUMARI TO MAHMADI SIWAN VIA

MAHMADA.

ESTIMATED COST-

3.61

Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Shikargang Patahi Pitch Road At Dumari To Mahmada Siwan Via

Mahmada.

Length of Road: 3.200 K.M

Name of Block:- Patahi

Project Head:- New Maintenance Policy 2018

Package No:- M.R. –N/2019-20 Pakridayal/10

Estimated Cost: - 3.61 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.

JE

A.E.

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in SHIKARGANG PATAHI PITCH ROAD AT DUMARI TO MAHMADI SIWAN VIA MAHMADA.

SI No.	Item No. pe	Name of Item	unit	No 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.		As Per Appendix I				162.671 \$		360512.578, 3 493192	70
								TC	TAL (in Re.)	360512.58	

Say Re

361000.00

3,49,300= 0

Junior Engineer, Rural Works Department, Works Section, Patahi

Assistant Engineer, Rural Works Department, Works Sub Division, Patahi

Rural Works Department, Works Division, Pakridayal

Post Facto T.A. TS is accorded for Rs. 3,49,300 = 0

(_____ crore Three lacs Forty Mine thousand Three hundred) only.

41- 2 200 KM

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in SHIKARGANG PATAHI PITCH ROAD AT DUMARI TO MAHMADI SIWAN VIA MAHMADA.

	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	1.500 - 1.900	19.700	3.500	1.300	89.635					
2.00	1900-2.000	9.450	2.900	1.800	49.329					
3.00	2.000-2.050	5.450	2.900	1.500	23.708					
1	A DOME THE REAL PROPERTY.		· 大型 化组织系统设置	Total	162.672					

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

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,							
Unit :- Per Cum							
				Taking Output = 2.832 Cum			
				Unckilled Mandage			
861.00	287.00	3	Nos.	Add 6% Overhead Charges			
51.66				Rate for 2.832 Cum			
912.66				Rate per Cum (Rs.) -			
383.15				nate per cum (RS.) -			
Cost of Haulage Excluding Loading and Unloading							
Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
	d stacking.	ng, unloading an	Ost of load	Unit = t.km			
		t km) km = 36.0	Taking output 3.60 tonnes load and lead 10			
		C.KIII	7 1111 - 30.0	(i) Surfaced Road			
				Speed with load: 15 km / hour.			
			r	Speed while Returning empty :25 km / hou			
				a) Machinery.			
				Tractor 3.6 tonne capacity			
366.25	549.10	0.667	hour	Time taken for onward haulage with load			
219.64	549.10	0.400	hour	Time taken for empty return trip.			
35.15	343.10	0.100		b) Overhead charges @ 0.06 on (a)			
621.04				cost for 36 t km = a+b+c			
17.25				Rate per t.km = $(a+b+c)/36$			
17.25		Shambar days		Say Rs			
				(ii) Unsurfaced Graveled Road			
	In the same of the same	de este en en		Speed with load: 12 km / hour			
			THE STATE OF	Speed for empty return trip :20 km / hour			
				a) Machinery			
				Tractor 3.6 tonnes capacity			
457.40	549.10	0.833		Time taken for onward haulage with load I			
274.55	549.10	0.500	hour	Time taken for empty return trip hour 0.50			
43.92			Visit in a chief one of	b) Overhead charges @ 0.06 on (a)			
775.87				Cost for 36 t .km = a+b+c 840.34			
21.5				Rate per t.Km = $(a+b+c)/36 23.34$			
21.5				Say Rs			

1.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moorum						
	placing fractor at loading point, loading	with frontle	oader, dumping	turning for	um		
	excludingfor haulage and return trip			s, turning it	or return trip,		
	Unit = cum						
	Taking output = 2.25 cum			the State of			
	Time required for						
	i) Positioning of Tractor at loading point		1 Min				
	ii) Loading by front end loader 1 cum	Arbert I					
	bucket capacity @ 25 cum per hour		5 Min				
	iii) Maneuvering, reversing, dumping and						
	turning for return		0 Min				
	iv) Waiting time, unforeseen	277.9					
	contingencies etc		0 Min				
	Total		6 Min				
	a) Labour						
	Mate	day	0.03	305.00	9.15		
156	Mazdoor for loading and unloading	day	0.72	287.00	206.64		
	b) Machinery			207.00	200.04		
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91		
	Front end-loader 1 cum bucket capacity				31.31		
	@ 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 = $(a+b+c+d)/2.25$		is selfal.		182.39		
Note:-	Unloading will be done manually.			(V) - C			
1.	Suplying for Brick Bats (with OH)						
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00		
	Add overhed Charges	r cr cum	6%	1017.00	1017.00		
	Total -		076		61.02		
	Confession				1078.02		
	Surface Lead	KM	7				
	Unsurface Lead	KM	1				
	Factor (3.6/2.25)	Cum	1.60				
В.	Carriage (with OH)						
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.3$	39			410.07		
C.	Cost of Labour for Pitching and Light						
	Ramming as per WRD SOR 6.6.1 (with OH)			202.4-		
	Total (A+B+C) -				383.15		
	Add 1% Labour Cess (A+B+C)				1871.24		
	Add 12% GST (A+B+C)			No.	18.71		
	Add 10% cost of Material for Seigniorage	Fee	1	101 7	224.55		
	Total Cost per Cum		1	101.70	101.70		
	The state of the s			Rs	2216.20		