

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR(2245) YEAR 2020-21

DISTRICT:- East Champaran

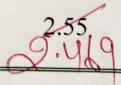
BLOCK :- Patahi

Estimate for Repair of Road breaches

(Damaged by Flood) for Motoribility in PATAHI

SUGAPIPER TO NAYA TOLA.

ESTIMATED COST-



Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Patahi Sugapipar To Naya Tola.

Length of Road:- 1.10 K.M

Name of Block:- Patahi

Project Head:- NDE

NDB Brics

Package No:-

M.M.G.S.Y-NDB-BRRP-127 PAKRIDAYAL

Estimated Cost:- 2.55 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.

Construction) 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

21/2/20

A.E

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PATAHI SUGAPIPER TO NAYA TOLA.

Head -	2245	Length- 1.10KM
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SI No.	Item No.	Name of Item	unit	oN O	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 Per Appendix I		114.971	2218:20 2147 . 40	2547 98. 73 2 1688		

Say Re

TOTAL (in Re.) 254798.73 255000.00

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

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TAMS is accorded for Rs. 2, 46,900. W

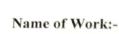
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S.E. (R.W.D.)

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Motihan



Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PATAHI SUGAPIPER TO NAYA TOLA.

		ve incertion a	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 ~ 0.070	15.000	1.800	50 S. C. M. A. G. A. F.				
2.00	0.050 - 0000	6.500		1.000	27.000			
3.00	0.100 - 0:570		3.500	0.800	18.200			
4.00	0.500 - 0.600	11.600	3.000	0.950	33.060			
5.00		19.400	1.800	0.800	27.936			
3.00	0.600 - 0800	7.500	1.800	0.650	8.775			
	Section 1977			Total	114.971			

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

6.6.1	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulder								
WRD	Pitching in slope or apron including light ramming etc. all complete as per approved de specification and direction of F/I								
Bihar	specification and direction of E/I.								
	Unit :- Per Cum								
	Taking Output = 2.832 Cum		3.00						
	Unskilled Mazdoor								
	Add 6% Overhead Charges	Nos.	3	287.00	861.00				
	Rate for 2.832 Cum				51.66				
	Rate per Cum (Rs.) -				912.66				
	mass per cum (ns.)				383.15				
1.4 RCD	Cost of Haulage Evoluting Leading and								
	Cost of Haulage Excluding Loading and Un	nloading							
	Haulage of materials by Tractor excluding Unit = t.km	cost of lo	ading, unloading a	nd stacking.					
		01 0							
	Taking output 3.60 tonnes load and lead 1 (i) Surfaced Road	0 km = 36	5.0 t.km						
	Speed with load: 15 km / hour. Speed while Returning empty: 25 km / hour.								
	a) Machinery.	ur.							
	Tractor 3.6 tonne capacity								
	Time taken for onward haulage with load								
		hour	0.667	549.10	366.25				
	Time taken for empty return trip. b) Overhead charges @ 0.06 on (a)	hour	0.400	549.10	219.64				
	cost for 36 t km = a+b+c				35.15				
					621.04				
	Rate per t.km = (a+b+c)/36 Say Rs				17.25				
	Say Ns				17.25				
	(ii) Unsurfaced Graveled Road								
	Speed with load: 12 km / hour								
	Speed for empty return trip :20 km / hour	- E							
	a) Machinery								
	Tractor 3.6 tonnes capacity								
	Time taken for onward haulage with load h		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)				43.92				
	Cost for 36 t .km = a+b+c 840.34				775.87				
	Rate per t.Km = $(a+b+c)/36$ 23.34				21.55				
	Say Rs				21.55				

Contract of the Contract of the Contract of	Total Cost per Cum			Rs	2216.20			
	Add 10% cost of Material for Seigniorage Fe	e	1		Meaning and a second			
	Add 12% GST (A+B+C)			101.70	101.70			
	Add 1% Labour Cess (A+B+C)				18.71 224.55			
	Total (A+B+C) -				1871.24			
C.	Ramming as per WRD SOR 6.6.1 (with OH)				383.15			
C.	Cost of Labour for Pitching and Light				410.07			
B.	Carriage (with OH) (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39				410.07			
D								
		Cum	1.60					
		KM	1					
	Surface Lead	KM	7					
	Total -				1078.02			
	Add overhed Charges		6%		61.02			
A.	Basic Rate of Brick Bats	Per Cum	COL	1017.00	1017.00			
1.	Suplying for Brick Bats (with OH)			1017.00	1017.00			
Note:-	Unloading will be done manually.							
	Rate per cum = (a+b+c+d)/ 2.25				182.39			
70,000	Cost for 2.25 cum = a+b+c+d				410.38			
	c) Overhead charges @ 0.06 on (a+b)				23.23			
	@ 25 cum/hour	hour	0.083	1403.00	116.45			
	Front end-loader 1 cum bucket capacity			STATE OF				
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91			
	b) Machinery	laay						
	Mazdoor for loading and unloading	day	0.72	287.00	206.64			
	Mate	day	0.03	305.00	9.15			
	a) Labour		OWIII					
	Total		6 Min					
	contingencies etc		0 Min					
	iv) Waiting time, unforeseen		0 Min					
	iii) Maneuvering, reversing, dumping and							
	A CONTRACTOR OF THE CONTRACTOR		5 Min					
	bucket capacity @ 25 cum per hour							
	ii) Positioning of Tractor at loading point iii) Loading by front end loader 1 cum		1 Min					
	Time required for		111					
	Taking output = 2.25 cum							
	Unit = cum							
	excludingfor haulage and return trip							
1	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip							
1	IPlacing Tractor at loading point, loading	g with from	tloader, dump	ing turning f	or return tri			