

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 JIHULI

TO SIKAHI TOLA.

ESTIMATED COST-

6.33 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Jihuli To Sikahi Tola.

Length of Road: 2.500 K.M

Name of Block:- Patahi

Project Head:- F.D.R (2245)

Package No:-

Estimated Cost:- 6.33 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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R.W.D.(w) Div. Pakridayal.

ne of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in JIHULI TO SIKAHI TOLA.

Head -	2245	Length- 2.500KM
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SI No.	Item No.	Name of Item	unit	N _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.			As F Appen			285.846	-2216.20 2147=40	633491.905 6/13/825	70
								TC	TAL (in Re)	633491 91	613875

Say Re

633000.00

6,13,800=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

Post Facto TAHX is accorded for Rs. 6, 13,800 = ~

(Six lacs Thirteen Housand Fight hundred) only,

works hold

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in JIHULI TO SIKAHI TOLA.

			Appendix - I						
Measurement for surfacing the Breach with Brick Bats									
Sl.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)				
	0.000 - 0.600	5.000	5.50+3.75/2	3.400	78.630				
	0-600 - 0.650	4.500	5.00+3.75/2	2.950	58.080				
		14.800	3.200	2.100	99.456				
	0-650 - 0.700	8.000	2.700	2.300	49.680				
4.00	0.700-1.700	8,000		Total	285.846				

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	amming e	tc. all complete a	s per approve	d design,			
WRD	Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I.							
Bihar	specification and direction of 27							
	Unit :- Per Cum							
	Taking Output = 2.832 Cum							
		Nos.	3	287.00	861.00			
	Oliskilled ividzadoti	103.			51.66			
	Add 6% Overhead Charges				912.66			
	Rate for 2.832 Cum				383.15			
	Rate per Cum (Rs.) -							
4.000	Cost of Haulage Excluding Loading and Unloading							
4 RCD	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
	Unit = t.km							
	Taking output 3.60 tonnes load and lead 10	0 km = 36.0	0 t.km					
+	(i) Surfaced Road							
-	Speed with load : 15 km / hour.	lac.ii						
	Speed while Returning empty :25 km / hou							
	a) Machinery.	2 kurs						
	Tractor 3.6 tonne capacity				255.25			
	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				17.25			
	Say Rs	THE A			17.25			
	(ii) Unsurfaced Graveled Road							
	Speed with load: 12 km / hour							
	Speed for empty return trip :20 km / hou	r						
	a) Machinery							
	Tractor 3.6 tonnes capacity			540.40	457.4			
	Time taken for onward haulage with load	I hour	0.833					
	Time taken for empty return trip hour 0.	50 hour	0.500	549.10	274.5			
	b) Overhead charges @ 0.06 on (a)				43.9			
	Cost for 36 t .km = a+b+c 840.34				775.8			
	Rate per t.Km = $(a+b+c)/36 23.34$				21.5			
	Say Rs				21.5			

1 CD	Loading and Unloading of Stone Boulder/	Stoneaggreg	gates/Sand /Kai	nker/Moorur	n
Tacb	Placing Tractor at loading point, loading	with frontlo	ader, dumping,	turning for	return trip,
7	excludingfor haulage and 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		
	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		AND LONG		
	@ 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.	N SINT			
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
		KM	7		
	Surface Lead	KM	1		
	Unsurface Lead	Cum	1.60		
	Factor (3.6/2.25)	Culli	1.00		
В.	Carriage (with OH)				
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.$	39			410.07
C.	Cost of Labour for Pitching and Light				
	Ramming as per WRD SOR 6.6.1 (with OF	1)			383.15
	Total (A+B+C) -				1871.24
	Add 1% Labour Cess (A+B+C)				18.73
	Add 12% GST (A+B+C)				224.5
	Add 10% cost of Material for Seigniorage	Fee	1	101.70	101.70
	Total Cost per Cum			Rs	2216.20