

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
KHUTAUNA AVADESH SINGH HOUSE TO
BRAHAM STHAN.

ESTIMATED COST -

1.759

Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Name of Road:- Khutauna Avadesh Singh House To Braham Sthan.

Length of Road:- 1.400 K.M

Name of Block:- Patahi

Project Head:- New Maintenance Policy 2018

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

Estimated Cost:- 1.82 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.

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A.E alizhuro

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KHUTAUNA AVADESH SINGH HOUSE TO BRAHAM STHAN.

He	ad -	245 Length- 1.400 KM								
SI No.	Item No.	Name of Item	unit	% S	Length	Width	Height	Qty.	Rate	Amount
1	i de la composition della comp	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 F Apper			81.9	-2216.20- 2147=40	181506.78 175878 = 10

Say Re

-182000.00

1,75900 Z W

TOTAL (in Re.) 181506.78

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

crore One lacs Seventy Five Mine hundred) only. S.E. (R.W.D.)
works Circle
Motinari Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KHUTAUNA AVADESH SINGH HOUSE TO BRAHAM STHAN.

	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 - 1.000	6.000	6.00+3.75/2	2.800	81.900				
				Total	81.900				

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	Pitching in slope or apron including light ramming etc. all complete as per approved design							
Bihar	specification and direction of E/I.							
	Unit :- Per Cum							
	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.) -		2.10 Albania		383.15			
1.4 RCD	Cost of Haulage Excluding Loading and Unloading							
E. La	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
	Unit = t.km			Ĭ				
	Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km							
	(i) Surfaced Road			287, 321				
	Speed with load : 15 km / hour.				Verified and			
	Speed while Returning empty :25 km / hou							
	a) Machinery.							
	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.	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				17.25			
	(ii) Unsurfaced Graveled Road							
	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 I	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)				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	page terresidos			21.55			

1.1 RCD	Loading and Unloading of Stone Boulder	Stoneaggre	gates/Sand /K	anker/Moor	um			
1.1 KCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moorum Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip,							
	excludingfor haulage and return trip							
	Unit = cum			AST LUI				
	Taking output = 2.25 cum	30.00						
	Time required for							
	i) Positioning of Tractor at loading point		1 Min					
	ii) Loading by front end loader 1 cum		2 101111					
	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	No. of the last	6 Min	5/4 - FE				
	a) Labour				The second			
	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)		tellareten h		23.23			
	Cost for 2.25 cum = a+b+c+d				410.38			
	Rate per cum = $(a+b+c+d)/2.25$	Service Market		to Arroy Dr.	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	1000	6%		61.02			
	Total -				1078.02			
	Surface Lead	KM	7					
	Unsurface Lead	км	1	The substitute of				
	Factor (3.6/2.25)	Cum	1.60					
B.	Carriage (with OH)							
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3	9			410.07			
C.	Cost of Labour for Pitching and Light				120.07			
	Ramming as per WRD SOR 6.6.1 (with OH)				383.15			
	Total (A+B+C) -				1871.24			
	Add 1% Labour Cess (A+B+C)				18.71			
	Add 12% GST (A+B+C)				224.55			
	Add 10% cost of Material for Seigniorage F	ee	1	101.70	101.70			
	Total Cost per Cum			Rs	2216.20			