

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
RANGPUR PAKKI ROAD TO JARDAHA.

ESTIMATED COST-

3.71 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Rangpur Paki Road To Jardaha.

Length of Road:- 1.192 K.M

Name of Block:- Patahi

Project Head:- M.M.G.S.Y.

Package No:- N/A

Estimated Cost:- 3.71 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.

J.E

A.E 114200

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in RANGPUR PAKKI
ROAD TO JARDAHA.

1	lead	- 2245	Length- 1.150 KM		ROA	D TO J	ARDA	HA.		iity in RANGI	PUR PAKKI
SINO	Item		Name of Item	unit	No	-ength	Width	Height	Oty.	Rate	onnt
1		Labour for la under Brick l	ying dry graded Jhama Khoa or stone Pitching or Boulder Pitching in slope o	filter cum		As P				Ľ	Атог
		appron including light ramming etc. all complete as per approved design, specification and direction of E/I.	Committee of the last of the l		Append			167.475	2216.20 2/47=40	371158.095 359635=	

Say Re

TOTAL (in Re.) 371158.10 -371000.00 3,59,600 2 ~

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 Three lacs Fifty Hine thousand hundred) only.

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

Works Circle Motihari

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in RANGPUR PAKKI ROAD TO JARDAHA.

1	1			Appendix - I							
1		Measurement for surfacing the Breach with Brick Bats									
100	SI. Vo.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)					
1.	.00	0.000 - 0.500	12.000	4.000	2.250	108.000					
1.0	00	0:500 - 0.550	5.000	2.500	1.100	13.750					
-	-	0.530 - 0.600	8.000	3.100	1.000	24.800					
1.0	00	0.600 - 0.700	5.000	3.100	1.350	20.925					
					Total	167.475					

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 WRD	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulde 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		T						
	Taking Output = 2.832 Cum		The state of the s						
	Unskilled Mazdoor	Nos.	3	287.00	861.0				
	Add 6% Overhead Charges			207:00	51.6				
	Rate for 2.832 Cum	The sales			912.6				
	Rate per Cum (Rs.) -				383.1				
4 RCD	Cost of Haulage Excluding Loading and U	nloading							
	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.								
	Unit = t.km		dung, unloading a	and stacking.					
	Taking output 3.60 tonnes load and lead 1	0 km = 36	Ot km						
	(i) Surfaced Road	1	C.KIII						
	Speed with load : 15 km / hour.								
	Speed while Returning empty :25 km / ho	ır	E PERSONAL PROPERTY OF THE PERSONAL PROPERTY O						
	a) Machinery.								
	Tractor 3.6 tonne capacity		The second second second						
	Time taken for onward haulage with load	hour	0.667	549.10	200.2				
	Time taken for empty return trip.	hour	0.400	549.10	366.2				
	b) Overhead charges @ 0.06 on (a)		0.400	349.10	219.6				
	cost for 36 t km = a+b+c				35.1				
	Rate per t.km = $(a+b+c)/36$				621.0				
	Say Rs				17.2 17.2				
	(ii) Unconferred C		7		17.2				
	(ii) Unsurfaced Graveled Road								
	Speed with load: 12 km / hour								
	Speed for empty return trip :20 km / hour								
-									
-	Tractor 3.6 tonnes capacity								
	Time taken for onward haulage with load h	hour	0.833	549.10	457.4				
-	ime taken for empty return trip hour 0.50	hour	0.500	549.10	457.40				
	o) Overhead charges @ 0.06 on (a)			3 13.10	274.55				
	cost for 36 t .km = a+b+c 840.34				43.92				
	ate per t.Km = (a+b+c)/36 23.34				775.87				
3	ay Rs				21.55				
		eller breeze b			21.55				

AR	Loading and Unloading of Stone Boulde	r/ Stoneagg	regates/Sand /	Vankar (84				
	Placing Tractor at loading point, loading with frontloader durantee frontloader durantee frontloader							
	excludingfor haulage and return trip	B Will Holl	dumpi	ng, turning for	return trip,			
1	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		1 1/1111					
	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			3 13.10	31.31			
	@ 25 cum/hour	hour	0.083	1403.00	116.45			
	c) Overhead charges @ 0.06 on (a+b)	- Indu	0.003	1403.00	23.23			
	Cost for 2.25 cum = $a+b+c+d$							
	Rate per cum = $(a+b+c+d)/2.25$				410.38			
Note:-	Unloading will be done manually.				182.39			
	and the delic manually.							
1.	Supplying for Brist B. 1 (11 aux)							
	Suplying for Brick Bats (with OH)							
Α.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00			
	Add overhed Charges		6%		61.0			
	Total -				1078.0			
	Surface Lead	1/0.4			1078.0			
	Unsurface Lead	KM	7					
		KM	1					
	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) + 182.39	,						
•		,			410.0			
C.	Cost of Labour for Pitching and Light							
	Ramming as per WRD SOR 6.6.1 (with OH)							
	Total (A+B+C) -				383.1			
	Add 1% Labour Cess (A+B+C)				1871.2			
	Add 12% GST (A+B+C)							
	Add 12% GST (A+B+C)				18.7			
	Add 10% cost of Material for Seigniorage Fe	e			224.5			
	Total Cost per Cum		1	101.70	101.70			
				Rs	2216.2			