

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD-FDR(2245) YEAR 2020-21

DISTRICT: East Champaran

BLOCK :- Pakridayal

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in Bankatwa Bandh to Pakridayal Tikha road.

ESTIMATED COST - 3.044 Lacs

SUBMITTED BY: EXECUTIVE ENGINEER. RWD WORKS DIVISION, PAKRIDAYAL

Bankatwa Bandh to Pakridayal Tikha road.. Name of Road:-

1.200 K.M Length of Road:-

Name of Block:-Pakridayal.

Project Head:-G.T.S.NY

Package No:-

Estimated Cost:- 3.04 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 Construction/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.

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in Bankatwa Bandh to Pakridayal Tikha road.

1	He	ead -	2245 Length- 1.200 K.M	1	,					1	,	,
1	SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Ė	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 F Appen			141.75	-2147.41 2/47.540	304394= 304395.368	20
		TOTAL (in Re.)								304395.37		

Say Re -304000.00

30439990

Junior Engineer

Rural Works Department, Works Section, Pakridayal Rural Works Department, Works Sub Division, Pakridayal

Executive Engineer, Rural Works Department, Works Division, Pakridayal

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in Bankatwa Bandh to Pakridayal Tikha road.

			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	0.500-1.000	15.000	3.000	3.150	141.750				
				Total	141.750				

Junior Engineer Rural Works Department, Works Section, Pakridayal Rural Works Department, Works Sub Division, Pakridayal Executive Engineer, Rural Works Department, Works Division, Pakridayal

			Constitution of the second	Rs	
	Total Cost per Cum		1	101.70	101.70
	Add 10% cost of Material for Seigniorage Fe	ee			217.24
	Add 10% cost of M				18.10
	Add 1% Labour Cess (A+B+C) Add 12% GST (A+B+C)				1810.36
- 1	Add 1% Labour C				322.27
	Total (A+B+C) -				200
0.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				410.07
C.	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.35$)			410.0
	(1.6 x 7 x 17 25) + (1.6				
В.	Carriage (with OH)	Cum	1.60		
-	Factor (3.6/2.25)		1		
	Unsurface Lead	KM	7		
	Surface Lead	KM		250	1078.02
			076		61.02
	Add overhed Charges Total -		6%	1017.00	1017.00
Λ.	Basic Rate of Brick Bats	Per Cum		1017.00	
A.	Suplying for Brick Bats (with OH)				
1.					200 E
lote:-	Unloading will be done manually.				182.39
	Rate per cum = $(a+b+c+d)/2.25$				410.38
	Cost for 2.25 cum = $a+b+c+d$				23.23
	c) Overhead charges @ 0.06 on (a+b)	hour	0.083	1403.00	116.45
	@ 25 cum/hour				
	Front end-loader 1 cum bucket capacity	hour	0.1	549.10	54.91
	Tractor 3.60 tonnes capacity				The same of the same
	b) Machinery	day	0.72	287.00	206.64
	Mazdoor for loading and unloading	day	0.03	305.00	9.15
	Mate				
	a) Labour		6 Min		
	Total		0 Min		
	iv) Waiting time, unforeseen contingencies etc				
	turning for return		0 Min		
	iii) Maneuvering, reversing, dumping and		5 Min		
	bucket capacity @ 25 cum per hour	i Ama			
	ii) Loading by front end loader 1 cum		1 Min		
	i) Positioning of Tractor at loading point				
	Time required for				
	Taking output = 2.25 cum				
	Placing Tractor at loading point, loading excludingfor haulage and return trip Unit = cum			8, 14,11,16,101	return trip,
4	excludingfor hardens and	with frontl	oader, dumpir	g, turning for	return trin
	D Loading and Unloading of Stone Boulder Placing Tractor at loading point, loading			,oui ai	

BRICK BATS PITCHING MANUAL MEANS

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 specification and direction of E/I.							
		e as per appro	oved design					
Bihar	specification and direction of E/I.				Al an			
	Unit :- Per Cum							
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.	3	297.00	961.0			
	Add 6% Overhead Charges	1103.	3	287.00	861.0			
	Rate for 2.832 Cum				51.6			
	Rate per Cum (Rs.) -				912.6 322.2			
.4 RCD	Cost of Haulage Evaluation I							
- TRED	Cost of Haulage Excluding Loading and U							
	Haulage of materials by Tractor excluding cost of loading, unloading and stacking. Unit = t.km							
	Taking output 3.60 tonnes load and lead 1							
	(i) Surfaced Road							
1.417	Speed with load : 15 km / hour.							
5-2 6 10	Speed while Returning empty :25 km / ho							
	a) Machinery.	ur.						
	Tractor 3.6 tonne capacity							
-14	Time taken for onward haulage with load	hour	0.667	F40.40	2000			
	Time taken for empty return trip.	hour	0.400	549.10	366.2			
	b) Overhead charges @ 0.06 on (a)	nour	0.400	549.10	219.6			
14	cost for 36 t km = a+b+c				35.1			
	Rate per t.km = $(a+b+c)/36$				621.04			
	Say Rs				17.2			
					17.2			
	(ii) Unsurfaced Graveled Road							
	Speed with load: 12 km / hour		A DI AREA DE LA CONTRACTOR DE LA CONTRAC					
	Speed for empty return trip :20 km / hour							
	a) Machinery							
	Tractor 3.6 tonnes capacity							
	Time taken for onward haulage with load h	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)			3 13.10	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			
					21.33			