



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 TO PANDAL BAZAR VIA MATH
TOLA.

ESTIMATED COST -

1.02

Lacs

980

0.992

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Khutauna To Pandal Bazar Via Math Tola.

Length of Road: 0.745 K.M

Name of Block:- Patahi

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

Package No:- N/A

Estimated Cost:- 1.02 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 Lout 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.

IF

A.E allation -

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

e of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KHUTAUNA TO PANDAL BAZAR VIA MATH TOLA.

-ON IN	Item No pa	2245 Length- 0.745 KM Name of Item	unit	o _N	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		46.2	-2216.20 2147=40	102388.44 9 9209=		
1								Т	OTAL (in Re.)	102388.44

Junior Engineer,

Rural Works Department,

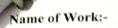
Works Section, Patahi

Assistant Engineer, Rural Works Department, Works Sub Division, Patahi

Executive Engineer, Rural Works Department, Works Division, Pakridayal

99,200= 0

Post Facto T.A.TS is accorded for Rs. 99,200 = 0 (crore lacs Hinety Hine Thousand



Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in KHUTAUNA TO PANDAL BAZAR VIA MATH TOLA.

			Appendix - I		
		Brick Bats			
SI. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1.00	0.00-0.300	6.000	3.500	2.200	46.200
1.00	0.00	0.000	31300	Total	46.200

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 Kh	oa or sto	one filter under E	Brick Pitching	g or Boulde			
WRD	Pitching in slope or apron including light	ramming	g etc. all complete	as per appr	oved design			
Bihar	specification and direction of E/I.							
	Unit :- Per Cum			-				
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.	3	287.00	861.0			
	Add 6% Overhead Charges				51.6			
	Rate for 2.832 Cum				912.6			
	Rate per Cum (Rs.) -				383.1			
1.4 RCD	Cost of Haulage Excluding Loading and Ur	ploading						
	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
	Unit = t.km	1	I I	na stacking.				
	Taking output 3.60 tonnes load and lead 1	0 km = 36	0 t km					
	(i) Surfaced Road	NIII = 30	J.O C.KIII					
	Speed with load : 15 km / hour.							
***************************************	Speed while Returning empty :25 km / hou	ır						
	a) Machinery.							
	Tractor 3.6 tonne capacity	aspert 37						
	Time taken for onward haulage with load	hour	0.667	549.10	366.2			
	Time taken for empty return trip.	hour	0.400	549.10	219.6			
	b) Overhead charges @ 0.06 on (a)	nout	0.400	343.10	35.1			
	cost for 36 t km = a+b+c							
	Rate per t.km = (a+b+c)/36				621.0			
	Say Rs				17.2			
					17.2			
	(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 h	hour	0.833	F40.40				
	Time taken for empty return trip hour 0.50	hour		549.10	457.40			
	b) Overhead charges @ 0.06 on (a)	noui	0.500	549.10	274.55			
	Cost for 36 t .km = a+b+c 840.34				43.92			
	Rate per t.Km = $(a+b+c)/36\ 23.34$				775.87			
	Say Rs				21.55			
MARE IN					21.55			

	i otal cost per cum			Rs	2216.20
	Total Cost per Cum		1	101.70	101.70
	Add 10% cost of Material for Seigniorage F	00		100 70	224.55
	Add 12% GST (A+B+C)			6. H. B. W.	18.71
	Add 1% Labour Cess (A+B+C)				1871.24
	Total (A+B+C) -				383.15
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39	9			410.07
B.	Carriage (with OH)				
	Factor (3.6/2.25)	Cum	1.60		
	Unsurface Lead	KM	1		
	Surface Lead	KM	7		
					1078.02
	Total -		6%		61.02
, ,,	Add overhed Charges	Per Cum		1017.00	1017.00
Α.	Suplying for Brick Bats (with OH) Basic Rate of Brick Bats	D - 0			
1.	Sunlying for Brick Bate (with OU)				
Note:-	Unloading will be done manually.				102.33
	Rate per cum = (a+b+c+d)/ 2.25				182.39
	Cost for 2.25 cum = a+b+c+d				410.38
	c) Overhead charges @ 0.06 on (a+b)		0.003	1403.00	116.45 23.23
	@ 25 cum/hour	hour	0.083	1403.00	116.45
	Front end-loader 1 cum bucket capacity	noui	0.1	549.10	54.91
	Tractor 3.60 tonnes capacity	hour	0.1	F40.10	54.04
	b) Machinery	uay	0.72	287.00	206.64
	Mazdoor for loading and unloading	day day	0.03	305.00	9.15
	Mate	day	0.00		
	a) Labour		6 Min		
	Total		0 Min		
	contingencies etc				
	iv) Waiting time, unforeseen		0 Min		
	iii) Maneuvering, reversing, dumping and turning for return				
			5 Min		
	bucket capacity @ 25 cum per hour				
	i) Positioning of Tractor at loading point ii) Loading by front end loader 1 cum		1 Min		
	i) Positioning of Tractage 1				
	Taking output = 2.25 cum Time required for				
	Unit = cum			T	
	Placing Tractor at loading point, loading excludingfor haulage and return trip		edder, ddinpir	ig, turning for	return trip
	Loading and Unloading of Stone Boulder/ Placing Tractor at loading point, loading	with front	loader, dumnin	a turning for	raturn trin