

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR(2245) YEAR 2020-21

DISTRICT :- East Champaran

BLOCK :- Phenhara

Estimate for Repair of Road breaches
(Damaged by Flood) for Motoribility in
MADHUBANI POKHRA TO DHUMNAGAR.

ESTIMATED COST -

4.71

Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Madhubani Pokhra To Dhumnagar.

Length of Road: 2.831 K.M

Name of Block:- Phenhara

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

Package No:-

Estimated Cost:- 4.71 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.

10.12.2020

J.E

A.E

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

e of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MADHUBANI POKHRA
TO DHUMNAGAR.

1	ad -	2245 Length- 4,338 K.M	-		1	-				
SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Osty.	Rate	Amount
4		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 Per opendix I		-2216.20 2147-40	471267.173 Y 5 6636
and the same of th						777		TO	OTAL (in Re.)	471267.17

Say Re

471000.00 4,56,6000 w

10-12-2020

Junior Engineer, Rural Works Department, Works Section, Phenhara

Assistant Engineer, Rural Works Department, Works Sub Division, Phenhara Executive Engineer, Rural Works Department, Works Division, Pakridayal

T.A. T.S is accorded for Rs. 4,56,600 = \(\text{Corore} \)

(\text{Corore} \text{Four lacs.} \text{Fifty Six thousand} \)

S.E. (R.VV.D.)

Works Circle

Motihari

me of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in MADHUBANI POKHRA TO DHUMNAGAR.

			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	0.000-0.150	42.000	3.500	0.450	66.150			
2.00	6'/50-0.430	5.500	3.000	0.500	8.250			
3.00	0430-0.535	4.200	1.700	0.600	4.284			
4.00		3.500	1,500	0.600	3.150			
5.00	0.935 - 0.900	7.400	2.500	0.500	9.250			
6.00	n.9 1 190	7.500	4.000	0.750	22.500			
7.00	0.900 - 1.180	13.500	4,500	1.300	78.975			
8.00	1-180 - 1.230	5.000	1.600	0.800	6.400			
9.00		10.000	0.750	0.450	3.375			
10.00	1.230-1.435	5.500	2.500	0.750	10.313			
				Total	212.647			

W 10.12.2020

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

wRD Bihar	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.							
	Unit :- Per Cum							
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.						
HITUS VIEW DEL WALLES, GROOMS	Add 6% Overhead Charges	NOS.	3	287.00	861.00			
	Rate for 2.832 Cum	-			51.66			
	Rate per Cum (Rs.) -				912.66			
		-			383.15			
1.4 RCD	Cost of Haulage Excluding Loading and Unloading							
	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.							
	Unit = t.km	I	dung, unloading ar	nd stacking.				
	Taking output 3.60 tonnes load and lead 1	0 km = 36	0 + km					
	(i) Surfaced Road	T	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	- In a						
	Time taken for onward haulage with load	hour	0.667	F40.40	20.06.00			
	Time taken for empty return trip.	hour	0.667	549.10	366.25			
	b) Overhead charges @ 0.06 on (a)	noui	0.400	549.10	219.64			
	cost for 36 t km = $a+b+c$				35.15			
	Rate per t.km = $(a+b+c)/36$				621.04			
	Say Rs				17.25			
	The street was the state of the				17.25			
	(ii) Unsurfaced Graveled Road							
	Speed with load: 12 km / hour			28224 194 1940				
	Speed for empty return trip :20 km / hour							
man war at	a) Machinery							
	Tractor 3.6 tonnes capacity			5 m 19 m 1				
	Time taken for onward haulage with load h	hour	0.022					
	Time taken for empty return trip hour 0.50	hour	0.833	549.10	457.40			
	b) Overhead charges @ 0.06 on (a)	· ioui	0.500	549.10	274.55			
San Market	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			
					21.55			

20	Loading and Unloading of Stone Bould	•						
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip							
	excludingfor haulage and return trin	tloader, dumpi	for return trin					
	Unit = cum				,			
	Taking output = 2.25 cum							
	Time required for				A CHARLES			
	i) Positioning of Tractor at loading point							
	ii) Loading by front end loader 1 cum		1 Min					
	bucket capacity @ 25 cum per hour							
	iii) Maneuvering, reversing, dumping and		5 Min					
	turning for return							
	iv) Waiting time, unforeseen		0 Min					
	contingencies etc							
	Total		0 Min					
	a) Labour		6 Min					
	Mate							
		day	0.03	305.00	9.15			
	Mazdoor for loading and unloading b) Machinery	day	0.72	287.00	206.64			
A STATE OF THE STA								
	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)				23.23			
	Cost for 2.25 cum = a+b+c+d				410.38			
lote:-	Rate per cum = (a+b+c+d)/ 2.25				182.39			
ote	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		6%		61.02			
	Total -				1078.02			
		1/0.4						
	Surface Lead	KM	7					
	Unsurface Lead	KM Cum	1.60					
	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	9			410.07			
C.	Cost of Labour for Pitching and Light							
	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 Fe	ee	1	101.70	101.70			
	Total Cost per Cum			Rs	2216.20			