

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
PHENHARA MAIN RAD TO BARAPARSAUNI.

ESTIMATED COST-

4.92 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Name of Road:- Phenhara Main Road To Baraparsauni.

Length of Road: 2.399 K.M

Name of Block:- Phenhara

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

Package No:-

Estimated Cost:- 4.92 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.

J.E

A.E 10/12/X

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

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PHENHARA MAIN RAD

TO BARAPARSAUNI.

H	ead -	2245 Length- 2.399 K.M	1		_						
SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Oty.	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 Apper			221.94	2147.4	0 491863.428 47 65	94.
						HEH K		Т	OTAL (in Re.)	491863.43	-6
							Salut I	Say Re	492000.00	17/	14E

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

crore foux lacs Seventy SIX
hundred

hundred

hundred

hundred

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

works Circic

Motihari

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in PHENHARA MAIN RAD TO BARAPARSAUNI.

			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	0.000-0.350	11.000	4.000	0.600	26.400			
-	0.350 - 0.410	12.000	3.80+5.00/2	2.650	139.920			
3.00	0.410 -0.620	10.300	6.000	0.900	55.620			
				Total	221.940			

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

BRICK BATS PITCHING MANUAL MEANS

6.6.1	Labour for laying dry graded Jhama Kh	oa or sto	ne filter under F	Brick Ditchin-				
WRD	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,							
Bihar	specification and direction of E/I.							
	Unit :- Per Cum	10 EV						
	Taking Output = 2.832 Cum							
	Unskilled Mazdoor	Nos.	3	287.00	861.00			
	Add 6% Overhead Charges	TWK!			51.6			
	Rate for 2.832 Cum				912.6			
	Rate per Cum (Rs.) -				383.1			
.4 RCD	Cost of Haulago Evaluation Land							
	- Section in a sec							
	Haulage of materials by Tractor excluding Unit = t.km	cost of lo	ading, unloading a	nd stacking.				
	Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km							
	(i) Surfaced Road							
	Speed with load : 15 km / hour.			TO A SECOND				
	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)				35.1			
	cost for 36 t km = a+b+c				621.04			
	Rate per t.km = $(a+b+c)/36$							
	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	L.						
	Time taken for empty return trip hour 0.50	nour	0.833	549.10	457.40			
	b) Overhead charges @ 0.06 on (a)	nour	0.500	549.10	274.5			
g T	Cost for 36 t .km = a+b+c 840.34				43.9			
	Rate per t.Km = $(a+b+c)/36\ 23.34$				775.8			
	Say Rs				21.5			
					Name and Address of the Owner o			
					21.55			

RCD	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	with frontic	oader, dumpin	g, turning for	return trip,		
-	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 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		6 Min		30 T 10		
	a) Labour						
	Mate	day	0.03	305.00	9.15		
	Mazdoor for loading and unloading	day	0.72	287.00	206.64		
-1 4-	b) Machinery						
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91		
	Front end-loader 1 cum bucket capacity				0		
	@ 25 cum/hour	hour	0.083	1403.00	116.45		
	c) Overhead charges @ 0.06 on (a+b)		Tale Style Story		23.23		
	Cost for 2.25 cum = a+b+c+d	7			410.38		
	Rate per cum = $(a+b+c+d)/2.25$				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		6%	1017.00	61.02		
	Total -				1078.02		
	Surface Lead	1/0.0			1076.02		
	Unsurface Lead	KM	7				
	Factor (3.6/2.25)	KM	1				
В.	Carriage (with OH)	Cum	1.60				
D.	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.3	9					
C.	Cost of Labour for Pitching and Light				410.07		
	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)						
	Add 10% cost of Material for Seigniorage	Fee	1	101.70	224.55 101.70		
	Total Cost per Cum			Rs	2216.20		