

# 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
RUPAULIYA PANCHAYAT KE KUMHRAR GAON
KE MAHADALIT BASTI ME PATH NIRMAN.

ESTIMATED COST - 4.53 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

#### Technical Report

F.D.R.(2020-21)

Name of Road:- Rupauliya Panchayat Ke Kumhrar Gao Ke Mahadalit Basti Me

Path Nirman.

Length of Road: 2.025 K.M

Name of Block:- Phenhara

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

Package No:-

Estimated Cost:- 4.53 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.

10.12.2020

A.E TO 112 puro

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

ae of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in RUPAULIYA PANCHAYAT KE KUMHRAR GAON KE MAHADALIT BASTI ME PATH NIRMAN.

	A	ead -	2245 L	ength-4:338 K.M	grisoners ag	position is a	-	-	-		-		
1	SI No.	Rem No.		Name of Item	unit	No	Length	Width	Height	É	Rate	Amount	
	age.		Labour for laying dry graded Jhama Khoa or stone fill 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.		r cum As Per Appendix I				204.3725	2147.4	452990 335 4288 T		
			1							T	OTAL (in Re.)	452930.33	1
1									Say Re	453900.00	438	900	

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

oct factor TAMS is accorded for Rs. 438900. W

crore FOUN lacs thirty eight
thousand
hundred ) only.

S.E. (R.W.D.)
works Circle
Mattheri

me of Work:-

## Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in RUPAULIYA PANCHAYAT KE KUMHRAR GAON KE MAHADALIT BASTI ME PATH NIRMAN.

		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	0-00-0.050	11.000	3.20+3.50/2	0.300	11.050					
2.00	0.050-0.110	55.000	3.050	0.550	92.263					
3.00		11.600	3.80+4.20/2	0.450	20.880					
	0.110 - 0.250	12.000	4.50+3.50/2	0.300	14.400					
5.00		15.000	3.800	0.400	22.800					
	0-250 - 0.290	15.000	3.80+3.30/2	0.300	15.980					
7.00	0-290 - 0.320	15.000	3.30+2.90/2	0.300	13.950					
3.00	0.320	6.000	2.900	0.750	13.050					
				Total	204.373					

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

#### BRICK BATS PITCHING MANUAL MEANS

6.6.1 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								
	Taking Output = 2.832 Cum			287.00	861.00				
	Unskilled Mazdoor	Nos.	3	287.00	51.66				
	Add 6% Overhead Charges				912.66				
	Rate for 2.832 Cum				383.15				
	Rate per Cum (Rs.) -								
.4 RCD	Cost of Haulage Excluding Loading and Unloading Haulage of materials by Tractor excluding cost of loading, unloading and stacking.								
	Haulage of materials by Tractor excluding of	OST OF IOAC	ling, dinodaling						
	lilait - t km								
	Taking output 3.60 tonnes load and lead 10	) KIII – 30.	J C.K.III						
	(i) Surfaced Road								
Y	Speed with load : 15 km / hour.								
	Speed while Returning empty :25 km / hou								
	a) Machinery.								
	Tractor 3.6 tonne capacity	hour	0.667	549.10	366.25				
	Time taken for onward haulage with load	hour	0.400	549.10	219.64				
	Time taken for empty return trip.	noui			35.15				
	b) Overhead charges @ 0.06 on (a)				621.04				
	cost for 36 t km = a+b+c				17.2				
	Rate per t.km = $(a+b+c)/36$				17.2				
	Say Rs	Age Clina		A Maria					
	(ii) Unsurfaced Graveled Road								
	Speed with load: 12 km / hour			paragraphic and the second					
	Speed for empty return trip :20 km / hour				A CONTRACTOR				
	a) Machinery								
	Tractor 3.6 tonnes capacity		0.933	549.10	457.4				
	Time taken for onward haulage with load	hour	0.833	549.10	274.5				
	Time taken for empty return trip hour 0.5	hour	0.500	549.10	43.9				
	b) Overhead charges @ 0.06 on (a)				775.				
	Cost for 36 t .km = a+b+c 840.34								
	Rate per t.Km = $(a+b+c)/36\ 23.34$				21.				
	Say Rs				21.				
	Say No.								

	Total Cost per Cum			Rs	2216.2			
	Add 10% cost of Material for Seigniorag	e Fee		1 101.70	101.			
	Add 1% Labour Cess (A+b+C)				224.5			
	Add 1% Labour Cess (A+B+C)				18.7			
	Total (A+B+C) -				1871.			
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with O	H)			383.			
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182$	.39			410.0			
В.	Carriage (with OH)				410.6			
	Factor (3.6/2.25)	Cuiii	1.00					
	Unsurface Lead	Cum	1.60					
	Surface Lead	KM	1		300			
		KM	7					
	Total -				1078.02			
A.	Add overhed Charges		6%		61.02			
1.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00			
	Suplying for Brick Bats (with OH )							
ote:-	Unloading will be done manager							
	Unloading will be done manually.							
	Rate per cum = (a+b+c+d)/ 2.25				182.39			
	c) Overhead charges @ 0.06 on (a+b)  Cost for 2.25 cum = a+b+c+d				410.38			
	@ 25 cum/hour				23.23			
	Front end-loader 1 cum bucket capacity	hour	0.083	1403.00	116.45			
	Tractor 3.60 tonnes capacity	Constant of						
	b) Machinery	hour	0.1	549.10	54.91			
	Mazdoor for loading and unloading	day		A series				
	Mate	day	0.72	287.00	206.64			
	a) Labour	day	0.03	305.00	9.15			
	Total							
	contingencies etc		6 Min		A.C.			
	iv) Waiting time, unforeseen	7 4	0 Min					
	turning for return							
	iii) Maneuvering, reversing, dumping and		0 Min					
	bucket capacity @ 25 cum per hour		5 Min					
	ii) Loading by front end loader 1 cum							
	i) Positioning of Tractor at loading point		TIVIIII					
	Time required for		1 Min					
	Taking output = 2.25 cum							
	Unit = cum							
	excludingfor haulage and return trip							
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip,							