

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 SHEKHAUNA TO MARPA KOTHIA.

ESTIMATED COST - 14.36

Lacs

13.898

SUBMITTED BY: EXECUTIVE ENGINEER, RWD WORKS DIVISION, PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- Shekhauna To Marpa Kothia

Length of Road: 3.200 K.M

Name of Block:- Phenhara

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

Package No:- BR-11R-303

Estimated Cost:- 14.36 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.

W 10.12.2020

A.Elolistson

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

ame of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in SHEKHAUNA TO MARPA KOTHIA.

SI No.		2245 Length- 3.200 K.M Name of Item			£	-	Ħ		China and	t
7	Item		unit	No	Length	Width	Height	Q.	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.		As Per Appendix I				666.538	-2153.83 2085=03	1435609.54
·								TC	OTAL (in Re.)	1435609.54

Say Re

138980D

10.12.2000

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

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in SHEKHAUNA TO MARPA KOTHIA.

	Appen	dix	-	I
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Measurement for	surfacing the Breach with Brick	Rate
Micasul chieff for	surfacing the Breach with Differ	Date

Sl.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1.00	0.000-0.015	14.000	4.100	0.300	17.220
2.00	0.015-0.030	52.000	3.750	0.300	58.500
	0.080 - 0.120	16.000	3.800	0.600	36.480
4.00	0.120 - 0.150	8.000	1.200	0.500	4.800
5.00	0.230	25.500	4.000	0.900	91.800
6.00	0 -230 - 0.300	7.300	1.200	0.600	5.256
7.00	0.300 - 0.320	25.000	1.50+1.30+1.20/3	0.750	25.000
8.00	0.330 - 0.350	2.600	1.400	0.800	2.912
9.00		16.000	1.00+1.30+1.10/3	0.600	10.880
	0 430 - 0.450	12.500	2.40+2.40+2.00/3	0.900	25.500
	0.479 - 0.470	14.200	4.00+3.50/2	0.750	39.940
	0.470- 0.490	3.400	1.000	0.600	2.040
	0 0.490 - 0.510	15.000	4.000	0.900	54.000
	0 0150-0.530	7.000	0.900+1.00/2	0.750	4.990
	0 0.530 - 0.540	9.000	2.00+1.30+2.00/3	0.900	14.310
	0 0.540 - 0.550	17.400	5.00+4.50+5.00/3	0.600	50.460
	0.920	30.000	4.500	0.750	101.250
	0 0 920 - 1.020	50.500	4.000	0.600	121.200
10.0	1.020			Total	666.538

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

BRICK BATS PITCHING MANUAL MEANS

6.6.1	Labour for laying dry graded Jhama Kho	a or stor	e filter under B	rick Pitching	or Boulder					
WRD	Pitching in slope or apron including light	ramming	etc. all complete	as per approv	ved design					
Bihar	Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I.									
	Unit :- Per Cum	THE SECTION								
	Taking Output = 2.832 Cum									
	Unskilled Mazdoor	Nos.	3	287.00	861.00					
	Add 6% Overhead Charges	1403.	-	207.00	51.66					
	Rate for 2.832 Cum				912.60					
	Rate per Cum (Rs.) -				383.1					
	per cam (ner)									
.4 RCD	Cost of Haulage Excluding Loading and Unloading									
	Haulage of materials by Tractor excluding of	cost of loa	ding, unloading ar	nd stacking.						
	Unit = t.km									
	Taking output 3.60 tonnes load and lead 10	0 km = 36.	0 t.km							
	(i) Surfaced Road									
	Speed with load : 15 km / hour.									
	Speed while Returning empty :25 km / hou	ır.								
	a) Machinery.									
	Tractor 3.6 tonne capacity	3 76		1400335						
	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)				35.1					
	cost for 36 t km = a+b+c				621.0					
	Rate per t.km = $(a+b+c)/36$				17.2					
	Say Rs				17.2					
		Britisms.		3697.663						
	(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		0.022	540.40						
	Time taken for onward haulage with load h		0.833	549.10	457.4					
	Time taken for empty return trip hour 0.50	nour	0.500	549.10	274.5					
	b) Overhead charges @ 0.06 on (a)				43.9					
-	Cost for 36 t .km = a+b+c 840.34				775.8					
-	Rate per t.Km = $(a+b+c)/36$ 23.34				21.5					
-	Say Rs				21.5					

	Total Cost per Cum		The second second	Rs	2153.8				
	Add 10% cost of Material for Seigniorage F	ee	1	101.70	101.70				
	Add 12% GST (A+B+C)	00			217.9				
	Add 1% Labour Cess (A+B+C)				18.10				
	Total (A+B+C) -				-1816.04				
	Ramming as per WRD SOR 6.6.1 (with OH)				-383.15				
C.	Cost of Labour for Pitching and Light								
	$(1.6 \times 5 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.3$	9			354.87				
В.	Carriage (with OH)								
	Factor (3.6/2.25)	Cum	1.60						
	Unsurface Lead	KM	1						
	Surface Lead	KM	5						
					1076.0				
	Total -		070		1078.0				
A.	Add overhed Charges	r er cum	6%	1017.00	61.0				
1.	Suplying for Brick Bats (with OH) Basic Rate of Brick Bats	Per Cum		1017.00	1017.0				
-	Combine for Polal Pate (with OU)								
Note:-	Unloading will be done manually.								
	Rate per cum = $(a+b+c+d)/2.25$				182.3				
	Cost for 2.25 cum = a+b+c+d				410.38				
	c) Overhead charges @ 0.06 on (a+b)	4.0			23.23				
	@ 25 cum/hour	hour	0.083	1403.00	116.45				
	Front end-loader 1 cum bucket capacity								
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.93				
	b) Machinery	luay	0.72	207.00	200.0				
	Mazdoor for loading and unloading	day	0.03	287.00	206.64				
	Mate	day	0.03	305.00	9.15				
	a) Labour		6 Milli						
	Total		0 Min 6 Min						
	contingencies etc		0.845-						
	iv) Waiting time, unforeseen		0 Min						
	iii) Maneuvering, reversing, dumping and turning for return								
	bucket capacity @ 25 cum per hour		5 Min						
	ii) Loading by front end loader 1 cum								
	i) Positioning of Tractor at loading point		1 Min						
	Time required for								
	Taking output = 2.25 cum	7 1 6 1							
1	Unit = cum								
/			,,	e, turning to	r return trip				
	Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moor excludingfor haulage and return trip								

2085=03

- 322=27

1755=16 17=55 210=62