

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

DEOKULIYA ROAD TO MARPAKOTHI.

ESTIMATED COST - 2.19 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Name of Road:- Deokuliya Road To Marpa Kothi.

Length of Road: 2.543 K.M

Name of Block:- Phenhara

Project Head:- M.M.G.S.Y (W.B)

Package No:-

Estimated Cost:- 2.19 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

J.E

A.E Tolhloo

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

of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in DEOKULIYA ROAD TO MARPAKOTHI.

Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
	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				98.8	-2216.20- 2147=40	218960.56 212163

Say Re

219000.00

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

Post Factor

TATA is accorded for Rs. 2,12,200= w

(crore Two lacs Twelve Thousand

Two hundred SE. (R. Marin

works Circle

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ne of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in DEOKULIYA ROAD TO MARPAKOTHI.

	To residual Control	TO PARTICIPATE OF	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	1.00- 1.400	50.000	3.800	0.200	38.000			
2.00	1.400 - 1.500	80.000	3.800	0.200	60.800			
				Total	98.800			

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

6.1	Labour for laying dry graded Jhama	Khoa or	stone filter unde	er Brick Pitchi	ng or Bould
NRD	Pitching in slope or apron including li				
Bihar	specification and direction of E/I.				
1					
	Unit :- Per Cum				
1	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	Unloading			
	Haulage of materials by Tractor excluding	g cost of l			
	Unit = t.km	g cost of it	Jading, unloading	and stacking.	
	Taking output 3.60 tonnes load and lead	10 km - 2	C 0 + 1		
	(i) Surfaced Road	10 KIII = 3	0.0 t.km		
	Speed with load : 15 km / hour.				
15	Speed while Returning empty :25 km / ho				
ā	a) Machinery.	Jur.			
	ractor 3.6 tonne capacity				
Т	ime taken for onward haulage with load	have			
Т	ime taken for empty return trip.		0.667	549.10	366.2
b	Overhead charges @ 0.06 on (a)	hour	0.400	549.10	219.64
	ost for 36 t km = a+b+c				35.15
	ate per t.km = $(a+b+c)/36$				621.04
	ay Rs				17.25
					17.25
(ii) Unsurfaced Graveled Road				
Sp	peed with load: 12 km / hour				
Sp	peed for empty return trip :20 km / hour				
(a)	Machinery				
	actor 3.6 tonnes capacity				
Tin	ne taken for onward by				
Tim	ne taken for empty return to	hour	0.833	549.10	457.44
(b) C	ne taken for empty return trip hour 0.50 Overhead charges @ 0.06 on (a)	hour	0.500	549.10	457.40
Cost	t for 36 t .km = a+b+c 840.34			34.3.10	274.55
Rate	P ner t Km = (a+b+) (a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-		March Company		43.92
Say	e per t.Km = $(a+b+c)/36\ 23.34$				775.87
Jay	N3				21.55
					21.55

	Loading and Unloading of Stone Boulder	Stoneaggre	gates/ Janu / No	ilkel/ivioorul				
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip,							
	excludingfor haulage and return trip							
	Unit = cum							
	Taking output = 2.25 cum							
1	Time required for							
17	i) Positioning of Tractor at loading point		1 Min					
	ii) Loading by front end loader 1 cum							
7	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					
	a) Labour							
	Mate	day	0.03	305.00	9.15			
	Mazdoor for loading and unloading	day	0.72	287.00	206.64			
	b) Machinery							
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91			
4	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			
	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%		61.02			
	Total -				1078.02			
	Surface Lead	KM	7					
	Unsurface Lead	KM	7					
	Factor (3.6/2.25)	Cum	1 1.60					
		Cum	1.60					
В.	Carriage (with OH)							
	$(1.6 \times 7 \times 17.25) + (1.6 \times 1 \times 21.55) + 182.35$	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) -	30 - 25			1871.24			
	Add 1% Labour Cess (A+B+C)				18.71			
	Add 12% GST (A+B+C)				224.55			
		SOLD DE LA FRANCISCO DE LA CONTRACTOR DE			224.55			
	Add 10% cost of Material for Seigniorage F	ee	1	101.70	101.70			