



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR(2245) YEAR 2020-21

DISTRICT :- East Champaran

BLOCK :- Patahi Telaria

Estimate for Repair of Road breaches
(Damaged by Flood) for Motorability in T02
NARAYANPUR BAZAR TO OJHILPUR.

ESTIMATED COST - 7.48 Lacs

7.248

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

Technical Report

F.D.R.(2020-21)

Name of Road:- T02 Narayanpur Bazar To Ojhilpur,

Length of Road:- 2.000 K.M

Name of Block:- Tetaria

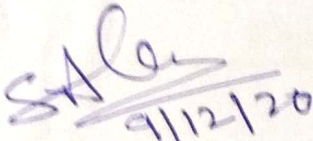
Project Head:- M.M.G.S.Y.

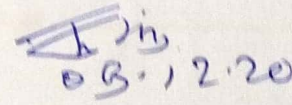
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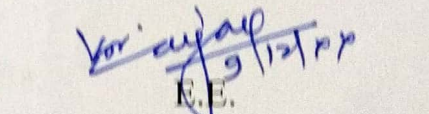
Estimated Cost:- 7.48 Laes

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.


9/12/20
J.E


03.12.20
A.E


9/12/20
R.W.D.(w) Div. Pakridayal.

of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motorability in T02 NARAYANPUR BAZAR TO OJHILPUR.

2245 Length- 2.000 K.M

Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	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 Per Appendix I			337.54	2216.20 2147=40	748056.148 724833=40
TOTAL (in Re.)									748056.15

Say Re ~~748000.00~~

724800=00

S. A. S.
9/12/20

Junior Engineer,
Rural Works Department,
Works Section, Tetaria

H. M.
9.12.20

Assistant Engineer,
Rural Works Department,
Works Sub Division, Tetaria

K. S. J.
5/12/20

Executive Engineer,
Rural Works Department,
Works Division, Pakridayal

Post Facto T A / S is accorded for Rs. 724800 = 00
(.....crore.....Seven.....lacs.....Twenty Four.....thousand.....
Eight.....hundred.....) only

A. M.
29/12/20
S.E. (R)

works C. S.
Motihari

29/12/20

Estimate for Repair of Road branches (Damaged by Flood) for Motorability in T02
NARAYANPUR BAZAR TO OJHILPUR.

Appendix - 1
Measurement for surfacing the Branch with Brick Bats

Sl. No.	Chainage	Length (M)	Avg. Width In Meter	Avg. Depth In Meter	Quantity (Cum)
1.00	1550 - 1580	3.000	3.500	1.800	50.400
2.00	1580 - 1600	11.600	3.50+3.70/2	3.000	176.640
3.00	1600 - 1680	17.000	3.000	1.300	110.500
				Total	337.540

S. K. Saha
9/12/20

Junior Engineer
Rural Works Department,
Works Section, Tetaria

H. S. Saha
09.12.20

Assistant Engineer
Rural Works Department,
Works Sub Division, Tetaria

M. S. Saha
09/12/20

Executive Engineer,
Rural Works Department,
Works Division, Pakridayal

BRICK BATS PITCHING MANUAL MEANS

6.1 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.	3	287.00	861.00
	Add 6% Overhead Charges				51.66
	Rate for 2.832 Cum				912.66
	Rate per Cum (Rs.) -				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				
	Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km				
	(i) Surfaced Road				
	Speed with load : 15 km / hour.				
	Speed while Returning empty :25 km / hour.				
	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)				35.15
	cost for 36 t km = a+b+c				621.04
	Rate per t.km = (a+b+c)/36				17.25
	Say Rs. -				17.25
	(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	hour	0.833	549.10	457.40
	Time taken for empty return trip hour 0.50	hour	0.500	549.10	274.55
	b) Overhead charges @ 0.06 on (a)				43.92
	Cost for 36 t .km = a+b+c				775.87
	Rate per t.Km = (a+b+c)/36				21.55
	Say Rs. -				21.55

Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum				
Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excluding for haulage and return trip				
Unit = cum				
Taking output = 2.25 cum				
Time required for				
i) Positioning of Tractor at loading point				
ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour				
iii) Maneuvering, reversing, dumping and turning for return				
iv) Waiting time, unforeseen contingencies etc				
Total				
a) Labour				
Mate				
Mazdoor for loading and unloading				
b) Machinery				
Tractor 3.60 tonnes capacity				
Front end-loader 1 cum bucket capacity @ 25 cum/hour				
c) Overhead charges @ 0.06 on (a+b)				
Cost for 2.25 cum = a+b+c+d				
Rate per cum = (a+b+c+d)/ 2.25				
Note:- Unloading will be done manually.				
1. Suplying for Brick Bats (with OH)				
A. Basic Rate of Brick Bats				
Add overhed Charges				
Total -				
Surface Lead				
Unsurface Lead				
Factor (3.6/2.25)				
B. Carriage (with OH)				
(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39				
C. Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				
Total (A+B+C) -				
Add 1% Labour Cess (A+B+C)				
Add 12% GST (A+B+C)				
Add 10% cost of Material for Seigniorage Fee				
Total Cost per Cum				