



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Marachi To Bajitpur in Nalanda District.



Name of the Road :-

Marachi To Bajitpur

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	3.831	Lac
TOTAL COST OF PROJECT	:	3.831	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

2.636 Lac

Ram
25/10/21
J.B.

Ram
25/10/21
A.E.

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

1. Name of PIUS :- R. N. D. HILSA (E.E)
2. Name of Block/Road :- HILSA

A. For Road : Marachi to Bajitpur

1. Damage Location/Change :-
2. Damage Length :- 24.1 m
3. Nature of Damage :-
4. Details of Restoration Works :-
 - i. Material Being used in Restoration works :- Beick bats
 - ii. Equipment's / Tools being used in Restoration works :- Tactor trolley, JCB, Roller
 - iii. Procedure taken up in restoration works :- Mechanically and manually
 - iv. Restored Length :- 24.1 m

B. For Bridge :

- N.A
1. Damage Location / Chainage :-
 2. Damage Length :-
 3. Nature of Damage :-
 4. Details of Restoration Works :-
 - i. Material Being used in Restoration works :-
 - ii. Equipment's / Tools being used in Restoration works :-
 - iii. Procedure taken up in restoration works :-
 - iv. Restored Length :-

C. Requirement of New CD/Bridge : N.A

- i. Name of Road :-
- ii. Location Chainage :-
- iii. Type of CD work/Length required :-

- Upload one photograph of damaged portion if available
- Attach minimum two photograph (during restoration & after restoration) photographs should be Geotags and at least one photo be captured in selfie mode.

Signature of

R.N.D.
09/12/21
EE

AE

EE

R.N.D.
09/12/21

Executive Engineer
Rural Works Department
Works Division, Rajgir

The work is satisfactory.

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Marachi To Bajitpur

DISTRICT NALANDA
BLOCK HILSA
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	2,63,605
		383109.000
	Total	383109.000
	TOTAL COST IN LACS =	3.831
	TOTAL COST OF PROJECT IN LACS =	3.831

[Signature]
JE
RWD

[Signature]
27/10/21
AE
RWD

[Signature]
27/10
EE
RWD

Technically Sanctioned for Rs. 2,63,600.200

(Rupees Two Lacs Sixty Three

Thousand Six Hundred Only)

Condition and direction given in attached technical notes with S.E. strictly.

[Signature]
24/12/2021

S. E.

RWD

Work Circle Nalanda

[Signature]
22/12/2021

Estimate for Motorable of Road from Marachi To Bajitpur in Nalanda District.								
Name of Road	Marachi To Bajitpur							
Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE
								AMOUNT (in Rs.)
1	SUB HEAD : EARTHWORK, BRICKS BATS, SAND FILLING Construction of Bricks Bats							
Supplying Brick bats with carriage at site including labour cess , GST and seigniorance fee (excluding over head and CP)								
		cum					124.757 181.260	1,201.00
								149833-25 2,17,693.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					124.757 181.260	564.910
								70476-0 1,02,396.00
3	Supplying unskilled labour for Brick bats and laying 600 mm dia for spreading and levelling brick bats including labour cess & GST (excluding over head and CP)	No					132.500 192.136	.328.00
								43296- 63,020.00
								383,409.00 2,63,605-

25.10.21

27/10/21

AE

EE

১৫.১০.২০

27/10/21

$$\sqrt{22110}$$

RWD

RWD

RWD

Name of Road
Marachi To Bajitpur

Block
HILSA

District
NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	23.60 18.0	2.813 ✓	2.267 ✓	450.500 114.79
2	6.10 ✓	2.500 ✓	2.017 ✓	30.760 ✓
			Total	481.260 145.55 m ³

[Signature]
25.10.2021
J.E.

[Signature]
27/10/21
A.E.

[Signature]
27/10
E.E.

[Signature]
29/11/21
E.E.
R.W.D. Dapisa.

Quantity after deduction of voids $145.55 \text{ m}^3 \times \frac{12}{14} = 124.757 \text{ m}^3$

[Signature]
31/10/21
A.E.

[Signature]
09/12/2021
J.E.

Analysis for Carriage by Road (By Tractor)

Name of Road:- Marachi To Bajitpur
District:- NALANDA

Block :- HILSA

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km										Loading & Unloading Cost	Carriage Cost by Rail Head	Total *				
				Pucka / Surface					Katcha											
1	Brick bat	Cum	Local	3.60	x	22.24	x	7.00 Km	=	Rs 249.09	3.60	x	27.78	x	1.00 Km	=	Rs 44.46	206.37	0.00	Rs. 499.92
				2.25							2.25									

Carriage Including GST and Labour Cess For Brick Bats

564.9096

[Signature]
AE
RWD

[Signature]
AE
RWD

[Signature]
AE
RWD

SDB Sl. No.	MOR D Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount (in Rs)
1.1 RCD		Loading and Unloading of brick bats with tractor				
		Unit=cum				
		Taking output= 2.25 cum				
		Time required for				
		i) Positioning of tipper at loading point		1 MIN		
		ii) Loading by front end loader 1 cum bucket capacity @ 45 cum per hour		5 Min		
		iii) Maneuvering, reversing, dumping and turning for return		0 Min		
		iv) Waiting time, unforeseen contingencies etc		6 Min		
		Total				
		a) Labour				
		Male	day	0.03	415	12.450
		Mazoor for loading and unloading	day	0.72	328	236.160
		b) Machinery				
		Tractor 3.60 tonne capacity	hour	0.1	525	52.500
		Front end loader 1cum bucket capacity @25 cum/hour	hour	0.083	1650	136.950
		c) Overhead charges @ 0.06 on (a+b)				26.284
		d) contractor profit @ 0.00n (a+b+c)				0.000
		Cost for 2.25 cum= (a+b+c+d)				464.344
		Rate per cum= (a+b+c+d)/2.25				206.375
		Note Unloading will be done manually				
1.4 RCD		Cost of Haulage Excluding Loading and Unloading				
		Haulage of material 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) Surface 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	707.90	472.169
		Time taken for empty return trip. *	hour	0.4	707.90	283.160
		Total				755.329
		b) Add overhead charges @0.06				45.320
		c) Add contractor profit @0.0				0.000
		cost for 36 t.km = a+b+c				800.649
		Rate per t.km = (a+b+c)/36				22.240
		ii) Unsurface Graveled Road/ Katcha				
		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	707.90	589.681
		Time taken for empty return trip	hour	0.5	707.90	353.950
		Total				943.631
		b) Add overhead charges @0.06				56.618
		c) Add contractor profit @0.0				0.000
		Cost for 36 t.km = a+b+c				1000.249
		Rate per t.km = (a+b+c)/36				27.785