



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from T03 Hilsa Harbanshpur Road To Chamandih Dhibarapar & Rasalpur in Nalanda District.



Name of the Road :-

T03 Hilsa Harbanshpur Road To Chamandih Dhibarapar & Rasalpur

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	0.801	Lac
TOTAL COST OF PROJECT	:	0.801	Lac

0.231

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

25/10/2021
J.R.

27/10/21
A.E.

SPECTION REPORT FOR FLOOD DAMAGE WORK

ie :

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

A. For Road : To 3 HILSA Hampshire Road to Chamanoli & Shibara/ear and Rase/pur

1. Damage Location/Change :-
2. Damage Length :- 5.9 m
3. Nature of Damage :-
4. Details of Restoration Works :-
 - i. Material Being used in Restoration works :- Brick Bat
 - ii. Equipment's / Tools being used in Restoration works :- Tractor, Trolley, J.C.B, Roller
 - iii. Procedure taken up in restoration works :- Mechanically & manually
 - iv. Restored Length :- 5.90 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

Ram
09.12.2021
JE

AE
09/12/21
AE

EE

Ram
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 : T03 Hilsa Harbanshpur Road To Chamandih Dhibarapar &
Rasalpur
DISTRICT NALANDA
BLOCK HILSA
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	23070.00 80127.000
	Total	80127.000
	TOTAL COST IN LACS =	0.801
	TOTAL COST OF PROJECT IN LACS =	0.801

Total = 0.2316

[Signature]
25/10/2021
JE
RWD

[Signature]
27/10/21
AE
RWD

[Signature]
27/10
EE
RWD

Technically approved for Rs.....

(Rupees.....)

Condition and direction laid down in attached
technical notes with DPR is to be followed Strictly

S. E.
RWD
Work Circle Nalanda

Technically Sanctioned for Rs...23,10,000.00

(Rupees...Twenty Three Thousand

One Hundred only)

Condition and direction attached

technical notes with...

Approved
24/12/2021

S. E.

RWD

Work Circle Nalanda

22
22/12/2021

Name of Road T03 Hilsa Harbanshpur Road To Chamandih Dhibarapar & Rasalpur
Block HILSA
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	5.90	4.400 1.43	1.567 1.50	37.910 12.655
			Total	37.910 12.655 m ³

Rama
23/10/21
J.E

Ad
27/10/21
A.E

R
27/10
E.E

Arb
09/11/21
E.E.
R.W.D. Rafigh.

Quantity after deduction of voids $12.655 \text{ m}^3 \times \frac{12}{14} = 10.847 \text{ m}^3$

Ad
31/12/21
A.E

Rama
09/12/21
J.E

Analysis for Carriage by Road (By Tractor)

Name of Road:- T03 Hilsa Harbanshpur Road To Chamandih Dhibarapur & Rasalpur

District:- NALANDA

Block:- HILSA

Sl 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	
				2.25						2.25								
				206.37														
0.00																Rs. 499.92		

Carriage Including GST and Labour Cess For Brick Bats

564.910

[Signature]
25.10.2021
AE
RWD

[Signature]
27/10
EE
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 @ 25 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				
		Mate	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 @ 0.0on (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