



ग्रामीण कार्य विभाग

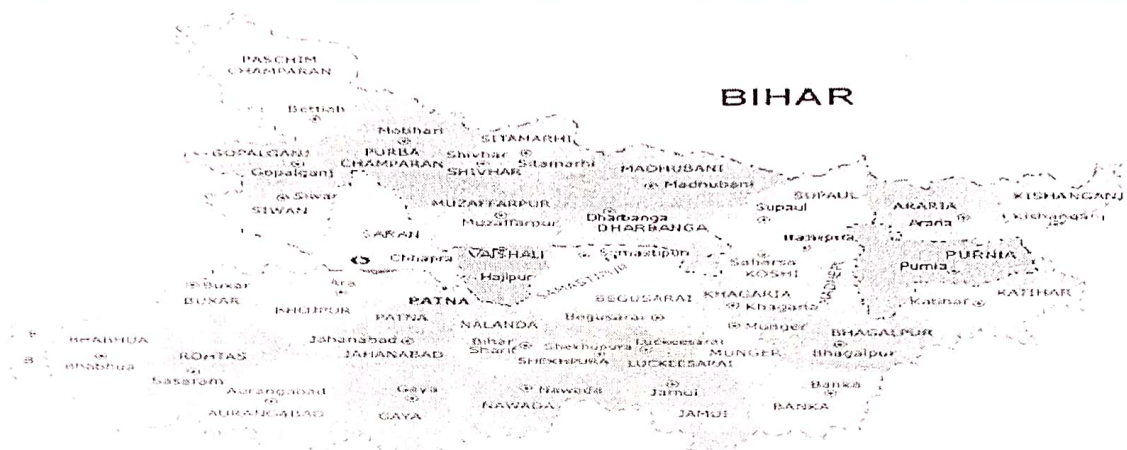
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Hilsa Reribans Bigha Road To Chamar Bigha in Nalanda District.



Name of the Road :-

Hilsa Reribans Bigha Road To Chamar Bigha

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	7.861	Lac
TOTAL COST OF PROJECT	:	<u>7.861</u>	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

6.238 Lac

Kant
25/10/21
J-12

27/11/21
A-6

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

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

A. For Road : HILSA Revibans Bigha Road To Chaman Bigha

1. Damage Location/Change :-
2. Damage Length :- 144.10 m
3. Nature of Damage :-
4. Details of Restoration Works :-
 - i. Material Being used in Restoration works :- Brick bats
 - ii. Equipment's / Tools being used in Restoration works :- Tractor trolly, T.C.B Roller
 - iii. Procedure taken up in restoration works :- Mechanically and manually
 - iv. Restored Length :- 144.10 m

B. For Bridge :

1. Damage Location / Chainage :- H.A
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 : H.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 Ch
09/12/2021
JE

AE
9/12/21
AE

EE

Prith
09/12/21
Executive Engineer
Rural Works Department
Works Division, Rajgir

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Hilsa Reribans Bigha Road To Chamar Bigha

DISTRICT NALANDA

BLOCK HILSA

DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	673823~ 786128.000
	Total	786128.000
	TOTAL COST IN LACS =	7.861
	TOTAL COST OF PROJECT IN LACS =	7.861

Ram S.
25/10/2011
JE
RWD

P. S.
27/10/21
AE
RWD

P.
27/10
EE
RWD

Technically approved for Rs.....
(Rupees.....)
Condition and direction laid down in attached
technical notes with DPR is be followed Strictly

S. E.
RWD
Work Circle Nalanda

Technically Sanctioned for Rs.....6,93,800=00
(Rupees.....Six.....Lacs.....Twenty.....Three.....
.....Thousand.....Eight.....Hundred.....only.....
Condition and attached
technical notes

~~Amur~~
24/12/2021

RWD

Work Circle Nalanda

~~22/12/2021~~

Estimate for Motorable of Road from Hilsa Reribans Bigha Road To Chamar Bigha in Nalanda District.

Name of Road Hilsa Reribans Bigha Road To Chamar Bigha

Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
	SUB HEAD : EARTHWORK, BRICKS BATS, SAND FILLING								
1	Construction of Bricks Bats Supplying Brick bats with carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)	cum					318.805 371.940	1,201.00	3,82,885.50 4,46,700.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					318.805 371.940	564.910	180,076.50 2,10,112.00
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					337.933 394.256	328.00	110,842.50 1,29,316.00
									7,36,120.00
									6,75,823.50

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Name of Road Hilsa Reribans Bigha Road To Chamar Bigha
Block HILSA
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	52.00 ✓	1.950 ✓	1.300 ✓	131.820 ✓
2	53.00 ✓	1.825 ✓	1.700 ✓	164.430 ✓
3	23.60 ✓	1.500 ✓	1.350 ✓	47.790 ✓
4	15.50 ✓	1.500 ✓	1.200 ✓	27.900 ✓
			Total	371.940 m ³

Ram
25.10.2021
J.F.

Rit
27/10/21
A.E.

P
27/10
C.E.

Ram
09/11/21

T.E.

R.W.D.

Rajis.

quantity after deduction of voids $371.940 \text{ m}^3 \times \frac{12}{14} = 318.808 \text{ m}^3$

Rit
9/10/21
A.E.

Ram
09.12.2021
J.F.

Analysis for Carriage by Road (By Tractor)

Name of Road:-- Hilsa Reribans Bigha Road To Chamar Bigha

District:- NALANDA

Block :- HILSA

District:- NALANDA															BLOCK:- TORUNA														
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	206.37	0.00	Rs. 499.92									
				2.25	x					2.25																			

Carriage Including GST and Labour Cess For Brick Bats

Rs. 564.91

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25-10-2021
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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				
		Mazoor for loading and unloading	day	0.03	415	12 450
		b) Machinery	day	0.72	328	236 160
		Tractor 3.60 tonne capacity	hour	0.1	525	52 500
		Front end loader 1 cum bucket capacity @25 cum/hour	hour	0.083	1650	136 950
		c) Overhead charges @ 0.06 on (a+b)				26 284
		d) contractor profit @ 0.00 on (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