



ग्रामीण कार्य विभाग

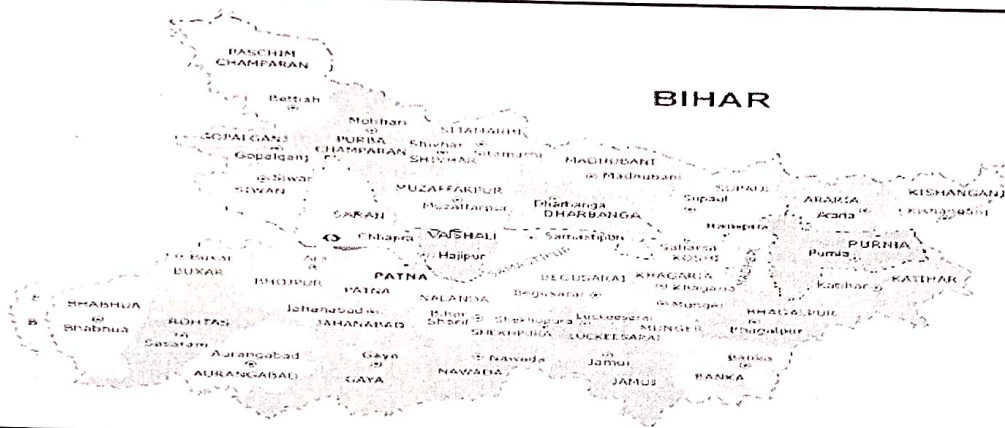
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Chiksaura Bans Bigha Road Dallu Bigha To South Soharapur RWD Road Via Gilanipur, Madwa Damodarpur Village in Nalanda District.



Name of the Road :-

Chiksaura Bans Bigha Road Dallu Bigha To South Soharapur RWD Road Via Gilanipur, Madwa Damodarpur Village

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	51.516	Lac
TOTAL COST OF PROJECT	:	51.516	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

21.09 Lac

Per
25-10-2021
J.E

pd
27/10/21
A.E

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Chiksaura Bans Bigha Road Dallu Bigha To South Soharapur
 DISTRICT RWD Road Via Gilanipur, Madwa Damodarpur Village
 BLOCK NALANDA
 DIVISION HILSA
 HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	2167.009
		5151620.000
	Total	5151620.000
	TOTAL COST IN LACS =	51.516
	TOTAL COST OF PROJECT IN LACS =	51.516

Ram
25/10/21
JE
RWD

AE
27/10/21
AE
RWD

21.07
27/10
EE
RWD

Technically Sanctioned for Rs...21,07,000=00

(Rupees...Twenty...One...Lac...Seven...

...Thousand...only,.....)

Condition and direct attached
 technical notes with Strictly.

24/12/2021

S. E.
RWD

Work Circle Nalanda

22/12/2021

Estimate for Motorable of Road from Chiksaura Bans Bigha Road Dallu Bigha To South Soharapur RWD Road
Via Gilanipur, Madwa Damodarpur Village in Nalanda District.

Name of Road										Chiksaura Bans Bigha Road Dallu Bigha To South Soharapur RWD Road Via Gilanipur, Madwa Damodarpur Village									
Sl. No.		Description			Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)							
SUB HEAD : EARTHWORK, BRICKS BATS, SAND FILLING																			
Construction of Bricks Bats																			
Supplying Brick bats with carriage at site including labour cess , GST and seignorance fee (excluding over head and CP)																			
										cum			1197194 = 29,27,293.00						
2		Carriage for Brick bats including labour cess & GST (excluding over head and CP)			No					996.831 2,437.380	1,201.00	563119.800 13,76,899.00							
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					1057 = 2 1056.64 2,583.623	328.00	346696 = 2 8,47,428.00							
													51,51,620.00						
													2107009						
JE 25.10.2021										AE 27/10/21									
RWD										RWD									

Name of Road Chiksaura Bans Bigha Road Dallu Bigha To South Soharapur RWD Road Via
 Block Gilanipur, Madwa Damodarpur Village
 District HILSA
 District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	2.30	2.100	1.450	7.000
2	2.10	1.600	1.000	3.360
3	4.80	1.500	2.000	14.400
4	6.50	1.860	1.000	12.090
5	4.50	2.500	0.500	5.630
6	7.20	2.133	0.500	7.680
7	4.80	2.200	0.300	3.170
8	7.00	3.150	0.300	6.620
9	4.50	2.800	0.300	3.780
10	6.60	2.850	0.300	5.640
11	11.50	2.800	0.300	9.660
12	4.20	2.000	0.300	2.520
13	3.10	1.900	0.300	1.770
14	6.00	1.650	0.300	2.970
15	6.80	2.300	0.300	4.690
16	5.60	3.500	1.000	19.600
17	3.50	2.500	1.000	8.750
18	4.40	1.150	1.000	5.060
19	5.80	2.166	1.500	18.840
20	2.60	3.700	0.600	5.770
21	9.50	1.500	0.800	11.400
22	3.10	2.000	1.000	6.200
23	21.50	2.433	1.300	68.000
24	3.60	2.300	1.300	10.760
25	2.70	1.800	0.800	3.890
26	32.00	1.780	1.950	111.070
27	5.10	0.500	0.500	1.280
28	1.00	0.500	0.500	0.250

29	9.70	1.500	0.500	7.280
30	14.50	1.475	0.875	18.710
31	16.00	1.600	1.000	25.600
32	4.50	2.400	0.500	5.400
33	3.50	1.300	0.500	2.280
34	3.50	2.200	1.400	10.780
35	4.40	2.800	0.500	6.160
36	1.90	1.500	0.500	1.430
37	29.00	2.250	0.800	52.200
38	4.50	1.500	0.500	3.380
39	4.00	1.500	0.800	4.800
40	3.00	1.300	1.000	3.900
41	2.10	2.200	0.400	1.850
42	5.70	2.330	1.100	14.610
43	4.00	1.750	0.600	4.200
44	4.00	3.000	0.500	6.000
45	3.20	1.500	1.100	5.280
46	2.50	0.800	1.500	3.000
47	3.70	1.950	0.800	5.770
48	5.80	0.950	1.200	6.610
49	8.00	1.300	1.000	10.400
50	2.60	1.150	0.500	1.500
51	19.00	1.150	0.900	19.670
52	12.00	1.330	1.200	19.150
53	29.70	1.180	1.425	49.940
54	26.30	4.050	2.120	225.810
55	11.20	1.233	1.200	16.570

56	7.50 16.0	1.800 3.56	1.400 3.266	16.800 191.777
57	2.50 3.50	1.367 0.90	1.400 3.0	3.760 9.457
58	7.50 10.50	1.300 1.366	0.900 1.25	8.780 17.99
59	2.40 10.0	1.500 1.85	0.900 1.0	9.240 18.50
60	42.50 3.0	1.400 0.70	1.613 1.20	95.940 2.52
61	32.20 3.90	6.700 0.90	5.400 1.033	1100.270 3.626
62	18.60 3.50	5.833 1.55	4.850 0.90	526.400 4.880
63	6.50 3.10	1.933 1.45	2.567 1.20	32.250 5.399
64	3.20 2.80	1.300 1.10	1.600 0.90	6.660 2.772
65	3.10 2.60	1.533 1.55	1.700 0.50	8.080 2.015
66	3.80 3.50	1.833 1.40	1.800 1.0	12.540 4.90
67	3.10 3.0	1.867 1.15	1.367 1.80	7.910 6.21
			Total	2437.380 1162.970 m ³

1/Ram
25/10/2021
J.E

Ad
27/10/21
A.E

P
27/10
E.E

Prin
09/11/21
E.E.R.W.D
Reg str.

Quantity after deduction of voids $1162.970 \text{ m}^3 \times \frac{12}{17} = 826.831 \text{ m}^3$

Ad
9/12/21
A.E

1/Ram
09.12.2021
J.E

Analysis for Carriage by Road (By Tractor)
Name of Road:-- Chiksaure Bans Bigha Road Dallu Bigha To South Soharapur RWD Road Via Gilanipur, Madwa Damodarapur Village
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								Rs. 495.92	
				3.60 2.25	x	22.24	x	7.00 Km	=	Rs 249.09	3.60 2.25	x	27.78	x	1.00 Km				
1	Brick bat	Cum	Local													206.37	0.00		

Carriage Including GST and Labour Cess For Brick Bats

564.9096

Ram
27/10/21
 JE
 RWD

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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

INSPECTION REPORT FOR FLOOD DAMAGE WORK

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

A. For Road : Chik Saura Bans Bigha Road Dalli Bigha to South Soharapur R.W.D.
Rau/ Wa. Btilani pur, Madua Samrolpur Vill.

1. Damage Location/Change :-
2. Damage Length :- 486.0m
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, Prolley, J.C.B., Roller
 - iii. Procedure taken up in restoration works :- mechanically & manually
 - iv. Restored Length :- 486.0m

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

[Signature]
JE

[Signature]
AE

EE

[Signature]
09/12/21
Executive Engineer
Rural Works Department
Works Division, Rajgir

The work is satisfactory.