



ग्रामीण कार्य विभाग

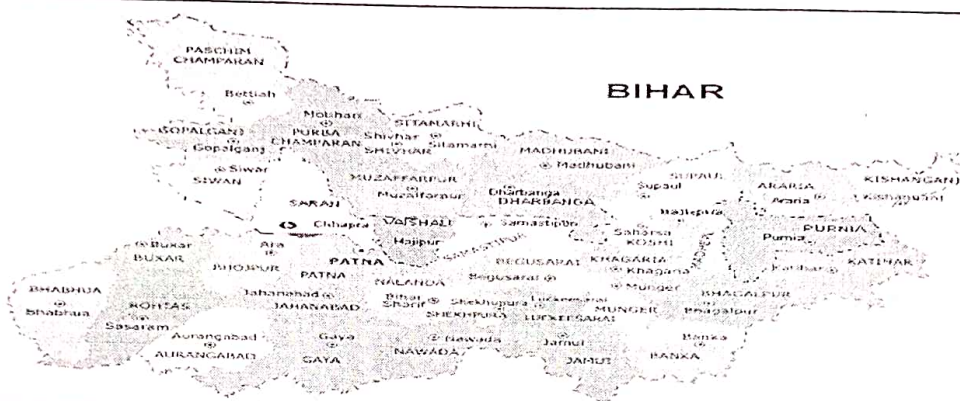
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from T03 Harvansh Pur Road To Shohra Pul Chhakan Tola Via Durga Bigha in Nalanda District.



Name of the Road :-

T03 Harvansh Pur Road To Shohra Pul Chhakan Tola Via Durga Bigha

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	24.718	Lac
TOTAL COST OF PROJECT	:	24.718	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

10.872 lce

Ram
25/10/2011
J.F.

27/10/21
A.E.

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

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

A. For Road : TOB Harnamsh Pura Road TO Shohra Pul Chhakan Tola

1. Damage Location/Change :- *Durga Bigha*
2. Damage Length :- *383.90m*
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 trolley, S.E.B, Roller*
 - iii. Procedure taken up in restoration works :- *Mechanically and manually*
 - iv. Restored Length :-

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]
09/12/21
JE

[Signature]
09/12/21
AE

EE

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

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : T03 Harvansh Pur Road To Shohra Pul Chhakan Tola Via
DISTRICT Durga Bigha
BLOCK NALANDA
DIVISION HILSA
HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	1087216=00
		2471758.000
	Total	2471758.000
	TOTAL COST IN LACS =	24.718
	TOTAL COST OF PROJECT IN LACS =	24.718

Rama
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R 10.872 lacs
27/10
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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. 10,87,200/-
(Rupees Ten Lacs Eighty Seven Thousand
Two Hundred only)
Condition and direction attached
technical notes with Bill only.

Arun
24/12/2021

RWD

Work Circle Nalanda

22/12/2021

Estimate for Motorable of Road from T03 Harvansh Pur Road To Shohra Pul Chhakan Tola Via Durga Bigha in Nalanda District.

Sl. No.	Name of Road	T03 Harvansh Pur Road To Shohra Pul Chhakan Tola Via Durga Bigha									AMOUNT (in Rs.)
			Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	
1			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					514.441 1169.460	514.441 1201.00	617841/- 14,04,521.00
2			Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					514.441 1169.460	514.441 564.910	290612/- 6,60,639.00
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					545/- 1,239.628	328.00	178760/- 4,06,598.00
											24,71,758.00

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10,87,216/-

Name of Road T03 Harvansh Pur Road To Shohra Pul Chhakan Tola Via Durga Bigha
Block HILSA
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	16.50 12.50	1.300 0.85	1.125 1.30	24.130 73.813
2	9.00 ✓	1.175 0.833	1.325 1.35	14.040 10.125
3	4.60 2.10	1.400 1.30	0.900 0.50	2.020 2.180
4	2.10 6.0	1.400 0.90	0.800 1.35	2.360 7.20
5	3.50 4.60	1.533 1.25	1.600 0.90	8.580 5.175
6	4.10 6.80	1.233 2.40	1.133 1.0	5.730 16.32
7	1.50 7.20	1.500 2.35	1.100 1.35	2.400 22.802
8	1.50 4.50	1.500 2.40	1.000 0.80	2.250 8.640
9	1.80 4.50	1.200 2.05	1.000 ✓	2.160 9.225
10	6.20 4.0	2.433 2.70	0.950 0.50	14.330 5.40
11	2.10 8.0	1.500 2.233	1.200 1.233	3.780 22.026
12	2.20 5.10	1.600 0.80	1.500 0.20	5.280 0.816
13	7.50 3.0	2.525 1.60	1.200 1.50	22.730 7.20
14	4.50 3.0	3.200 1.40	1.000 0.50	14.400 2.10
15	1.00 2.80	1.000 2.0	1.000 0.50	1.000 2.80
16	4.50 15.0	3.100 10.75	1.200 0.50	16.740 14.812
17	5.50 9.30	3.467 0.733	0.900 1.05	47.160 7.157
18	2.10 3.20	1.500 1.10	0.300 0.50	0.050 1.760
19	8.20 8.0	2.700 1.266	0.767 0.50	16.980 5.066
20	4.20 13.0	1.333 2.266	0.900 0.60	5.040 17.639
21	3.10 6.80	2.100 1.20	1.100 0.75	7.160 6.12
22	2.90 15.0	1.800 1.633	1.200 0.633	6.610 15.505
23	2.20 3.20	1.400 2.050	0.300 1.75	0.920 11.480
24	1.50 3.0	0.900 1.40	0.300 1.50	0.410 6.30
25	3.50 9.10	2.600 1.80	0.900 0.50	8.190 ✓
26	16.10 3.70	2.240 2.20	0.925 0.50	33.360 4.07
27	9.20 4.10	1.567 3.15	1.500 0.50	21.620 6.457
28	4.50 3.20	2.000 1.50	1.100 0.50	9.000 2.40
29	7.50 30.0	2.233 2.071	0.867 0.50	14.520 31.05
30	1.10 4.50	1.000 1.60	0.900 0.50	0.990 3.60
31	20.70 53.0	2.475 1.118	1.275 1.45	65.320 85.918
32	14.30 14.50	1.867 1.90	1.233 0.90	34.680 29.795
33	3.30 8.60	2.200 2.33	1.800 0.50	13.070 10.033
34	3.50 ✓	2.500 1.05	1.600 0.50	14.000 1.837
35	10.10 9.50	2.033 1.0	0.825 1.0	16.940 9.50
36	4.50 59.50	2.500 1.145	1.100 1.225	12.380 83.456
37	2.80 9.0	1.900 1.50	1.100 0.30	5.860 4.050
38	2.30 4.50	1.400 1.30	1.300 0.30	4.190 1.755
39	4.50 7.0	3.600 0.95	0.650 0.30	10.530 1.995

2069

C.O. Qty = 500.936 m³

BL 500.936 m³

40	3.804.10	2.2503.66	1.0502.50	-8.98036.90
41	30.505.70	2.5503.60	1.1331.0	88.12020.57
42	4.90-6.30	2.2503.430	0.9331.50	-10.29032.444
43	44.706.20	2.4001.833	1.0330.50	-36.4405.683
44	9.106.0	2.8331.230	1.4000.50	-36.0903.699
45	55.00	1.475	1.425	115.600
46	4.10	1.500	1.200	7.380
47	8.80	1.833	0.933	15.050
48	3.20	1.500	1.100	5.280
49	2.40	1.000	1.200	2.880
50	6.20	1.500	1.500	13.950
51	60.00	1.600	1.600	153.600
52	3.20	1.167	1.367	5.100
53	11.50	4.900	2.500	140.880
54	5.90	4.100	1.100	26.610
55	9.50	1.633	1.500	23.270
56	6.80	2.233	1.133	17.200
	446.5		Total	4469.460 600.182 m ³

Ram
28/10/2021
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Ram
29/11/21
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R.W.D.
Rajis.

Quantity after deduction of voids = $600.182 \text{ m}^3 \times \frac{12}{14} = 514.414 \text{ m}^3$

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9/12/21
A.E

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09/12/2021
JE

Analysis for Carriage by Road (By Tractor)

Name of Road:-- T03 Harvaush Pur Road To Shohra Pul Chhalkan Tola Via Durga Bigha

District:- NALANDA

Block :- HILSA

District: _____																	
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							

Carriage Including GST and Labour Cess For Brick

Bats

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27/10/21
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RWD

564.9096

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22/10
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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