



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from T04 To Jamuara in Nalanda District.



Name of the Road :-

T04 To Jamuara

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	10.306	Lac
TOTAL COST OF PROJECT	:	10.306	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

8-834-6

[Signature]
25/10/21
J.E

[Signature]
27/10/21
H.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 : To 4 to Tamugra

1. Damage Location/Change :-
2. Damage Length :- 162.10m
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, J.C.B. Roller
 - iii. Procedure taken up in restoration works :- Mechanically & manually
 - iv. Restored Length :- 162.10m

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 :-

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

JE

AE

EE

07/11/21

Executive Engineer
Rural Works Department
Works Division, Rajgir

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : T04 To Jamuara

DISTRICT NALANDA
BLOCK HILSA
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	8.833685
		1030608.000
	Total	1030608.000
	TOTAL COST IN LACS =	10.306
	TOTAL COST OF PROJECT IN LACS =	10.306

Total - 8.834 Lacs

[Signature]
28/10/21
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 be followed Strictly

S. E.
RWD
Work Circle Nalanda

Technically Sanctioned for Rs. 883,400/-
(Rupees Eight Lacs Eighty Three Thousand
Four Hundred only)
Condition and
technical notes Strictly.

Answer
24/12/2021
S.E.
RWD
Work Circle Nalanda
22/12/2021

Estimate for Motorable of Road from T04 To Jamuara in Nalanda District.

Name of Road T04 To Jamuara												
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)											501959.20	
cum									487.610	1,201.00	5,85,620.00	
2	Carrige for Brick bats including labour cess & GST (excluding over head and CP)			No					487.610	564.910	236105.20 2,75,456.00	
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					516.867	328.00	145304.20 1,69,532.00	
											10,30,008.00	
											8,83,368.20	
JE 25/10/2021											AE 27/10/21	EE 27/10
RWD											RWD	RWD

Name of Road T04 To Januara
Block HILSA
District NALANDA

Calculation of Brick Bats

Sl.No	Length (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	5.40	1.533	1.000	8.280
2	2.80	2.000	0.300	1.680
3	3.10	2.200	0.500	3.410
4	3.10	1.500	0.400	1.860
5	2.10	1.200	0.300	0.760
6	3.80	2.300	0.500	4.370
7	4.10	2.800	0.400	4.590
8	6.50	4.800	0.500	15.600
9	2.80	1.800	0.400	2.020
10	15.50	2.933	1.400	63.650
11	34.50	2.367	1.075	87.790
12	9.20	1.967	1.233	22.310
13	15.50	2.267	3.600	126.500
14	20.50	1.980	1.600	64.940
15	1.80	1.400	1.200	3.020
16	2.80	1.400	1.250	4.900
17	3.40	1.950	1.500	9.950
18	3.20	1.750	1.600	8.960
19	1.20	1.100	1.000	1.320
20	4.60	2.000	1.700	15.640
21	2.80	1.500	1.300	5.460
22	2.70	1.500	2.000	8.100
23	1.80	1.000	1.500	2.700
24	1.60	1.200	1.500	2.880
25	2.30	1.500	1.500	5.180
26	2.60	1.300	1.700	5.750
27	2.40	1.350	1.850	5.990
Total				487.610

Ram
25-10-2021
J.E

Pl
22/10/21
A.E

R
22/10
E.E

Pl
9/12/21
F.E
Q.W.D. Raut
18/8/21

Quantity after deduction of voids $487.610 \text{ m}^3 \times \frac{12}{14}$
= 417.951 m^3

Pl
9/12/21
A.E
Ram
09.12.2021
J.E

Analysis for Carriage by Road (By Tractor)

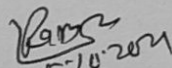
Name of Road:- T04 To Jamuara
District:- NALANDA

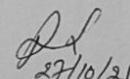
Block :- HILSA

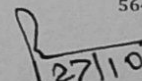
Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km										Loading & Unloading Cost	Carriage Cost by Rail Head	Total				
				Pucka / Surface					Katcha											
1	Brick bat	Cum	Local	3.60 2.25	x	22.24	x	7.00 Km	=	Rs 249.09	3.60 2.25	x	27.78	x	1.00 Km	=	Rs 44.46	206.37	0.00	Rs. 499.92

Carriage Including GST and Labour Cess For Brick
Bats

564.9096


25-10-2021
AE
RWD


27/10/21
AE
RWD


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				
		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 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 @ 0.00n (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