



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 Alipur in Nalanda District.



Name of the Road :-

Hilsa Reribans Bigha Road to Alipur

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	1.031	Lac
TOTAL COST OF PROJECT	:	1.031	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

6-883 1/2

25.10.2021
J.F.

27/10/21
A.E.

ION REPORT FOR FLOOD DAMAGE WORK

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

: Hilsa Reservoirs Bridge Road to Halipar

ge Location/Change :-

ge Length :- 32.6 m

e of Damage :-

is of Restoration Works :-

aterial Being used in Restoration works :- Brick bats

quipment's / Tools being used in Restoration works :- Tractor trolley, J.C.B, Roller

rocedure taken up in restoration works :- Mechanically & manually

restored Length :- 32.60 m

Ige :

age Location / Chainage :-

nage Length :-

ure of Damage :-

ails of Restoration Works :-

Material Being used in Restoration works :-

Equipment's / Tools being used in Restoration works :-

Procedure taken up in restoration works :-

Restored Length :-

ement of New CD/Bridge :

Name of Road :-

i. Location Chainage :-

ii. 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.

Ram
29.12.2021
EE

9/12/21
AE

EE

Executive Engineer
Rural Works Department
Works Division, Rajgarh

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Hilsa Reribans Bigha Road to Alipur

DISTRICT NALANDA

BLOCK HILSA

DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	88334
		103059.000
	Total	103059.000
	TOTAL COST IN LACS =	1.031
	TOTAL COST OF PROJECT IN LACS =	1.031

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RWD

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RWD

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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

अधोक्षण आभयन्ता
ग्रामीण कार्य विभाग
कार्य अंचल (नालन्दा)

S. E.
RWD
Work Circle Nalanda

Technically Sanctioned for Rs.....88,300=00

(Rupees.....Eighty.....Eight.....Thousand
.....Three.....Hundred.....only.....)

Condition and direction attached
technical notes with

Aruna
24/12/2021

C.

RWD

Work Circle Nalanda

P
22/12/2021

Name of Road
Hilsa Reribans Bigha Road to Alipur
Block
HILSA
District
NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(n.)	Thickness (m)	Qty. (Cum)
1	5.50 /	1.800 /	0.800 /	7.920 /
2	9.30 /	1.700 /	1.033 /	16.330 /
3	14.50 /	1.120 /	1.325 /	21.520 /
4	3.30 /	0.850 /	1.067 /	2.990 /
			Total	48.760 m ³

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29/12/21
E.E.

R.V.D. Rajar.

Quantity after deduction of voids $48.760 \text{ m}^3 \times \frac{12}{14} = 41.799 \text{ m}^3$

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9/12/21
A.E.

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09/12/2021
J.E.

Analysis for Carriage by Road (By Tractor)

Name of Road:- Hilsa Reribans Bigha Road to Alipur

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	8	22.24	8	7.00 Km	=	Rs 249.09	3.60	2.25	8	27.78	8	1.00 Km	=	Rs 44.46	206.37	0.00	Rs. 495.92

Carriage Including GST and Labour Cess For Brick

Bats

564.9096

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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 contingenc d 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