



ग्रामीण कार्य विभाग

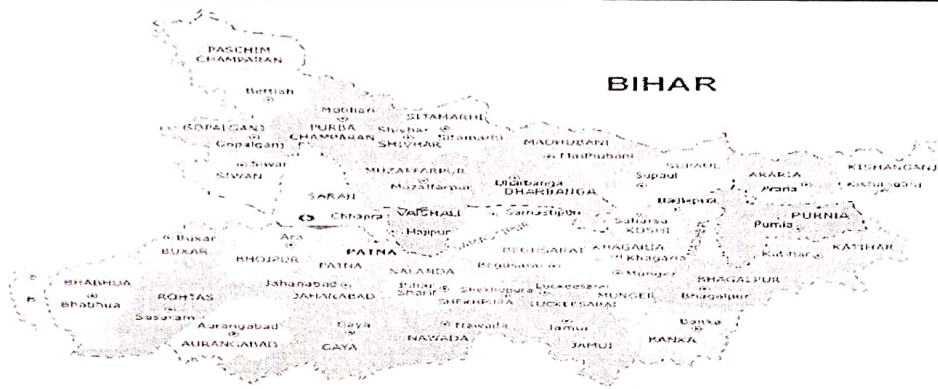
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Korwan Ghana Bigha Road To Akopur in Nalanda District.



Name of the Road :-

Korwan Ghana Bigha Road To Akopur

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	HILSA	
TOTAL COST OF CONSTRUCTION	:	0.335	Lac
TOTAL COST OF PROJECT	:	0.335	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

0.286 Lac

25.10.2021
J.B

27/10/21
A.E

ACTION REPORT FOR FLOOD DAMAGE WORK

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

Lead : Korwan Ghana Bigha Road to Akopur

Damage Location/Change :-

Damage Length :- 12.00 m

Nature of Damage :-

Details of Restoration Works :-

- Material Being used in Restoration works :- Brick bats
- Equipment's / Tools being used in Restoration works :- Power trolley, P.E.B. Roller
- Procedure taken up in restoration works :- Mechanically & manually
- Restored Length :- 12.00 m

Bridge :

Damage Location / Chainage :-

Damage Length :-

Nature of Damage :-

Details 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 :-

Requirement of New CD/Bridge :

- Name of Road :-
- Location Chainage :-
- 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
03.12.2021
JE

9/12/21
AE

EE

Ram
03/12/21
Executive Engineer
Rural Works Department
Works Division, Rajgiri

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Korwan Ghana Bigha Road To Akopur

DISTRICT NALANDA
BLOCK HILSA
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	28552.00
	Total	33459.000
	TOTAL COST IN LACS =	0.335
	TOTAL COST OF PROJECT IN LACS =	0.286

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RWD

Technically approved for Rs.....

(Rupees.....)

Condition and direction laid down in attached technical notes with DPR is to be followed Strictly

S. E.
RWD
Work Circle Nalanda

Technically Sanctioned for Rs. 28600 = 00
(Rupees Twenty Eight Thousand Six
Hundred only.....)
Condition and for attached
technical notes strictly.

Abu
24/12/2021

S. E.

RWD

Work Circle Nalanda

9
22/12/2021

Estimate for Motorable of Road from Korwan Ghana Bigha Road To Akopur in Nalanda District.

Korwan Ghana Bigha Road To Akopur									
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				13.568	1,201.00	16295.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					13.568	564.910	7665.00
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					14.00	328.00	4592.00
									23,459.20
									28552.00

Name of Road	Korwan Ghana Bigha Road To Akopur
Block	HILSA
District	NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	5.00 ✓	1.200 ✓	0.700 ✓	4.200 ✓
2	7.00 ✓	2.267 ✓	0.733 ✓	11.630 ✓
			Total	15.830 ✓

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25.10.2021
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09/11/21
E. E. R. W. D. Rajis.

Quantity after deduction of voids $15.830 \text{ m}^3 \times \frac{12}{14} = \underline{13.568 \text{ m}^3}$

9/12/21
AE

Rams
© 9.12.2011
J-E

Analysis for Carriage by Road (By Tractor)

Name of Road:-- Korwan Ghana Bigha Road To Akopur

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	x	22.24	x	7.00 Km	=	Rs 249.09	3.60	x	1.00 Km	=	Rs 44.46	206.37	0.00	Rs. 499.92
				2.25					2.25									

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 " " per 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 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 @ 0.00n (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	hour	0.667	707.90	472.169
		Time taken for onward haulage with load	hour	0.4	707.90	283.160
		Time taken for empty return trip.				755.329
		Total				45.320
		b) Add overhead charges @0.06				0.000
		c) Add contractor profit @0.0				800.649
		cost for 36 t km = a+b+c				22.240
		Rate per t.km = (a+b+c)/36				
	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	hour	0.833	707.90	589.681
		Time taken for onward haulage with load	hour	0.5	707.90	353.950
		Time taken for empty return trip				943.631
		Total				56.618
		b) Add overhead charges @0.06				0.000
		c) Add contractor profit @0.0				1000.249
		Cost for 36 t.km = a+b+c				27.785
		Rate per t.km = (a+b+c)/36				