ग्रामीण कार्य विभाग

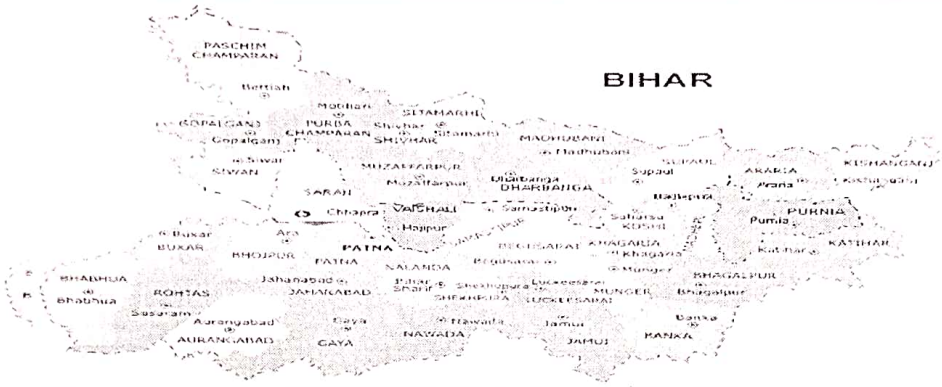
Rural Works Department, Govt of Bihar

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~~ 0.286 Lac	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

25.10.2021
J.E

27/10/21
A.E

ECTION REPORT FOR FLOOD DAMAGE WORK

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

Name of Block/Road :- HILSA

Road : Korwan Ghana Bigha Road to Akopur

Damage Location/Change :-

Damage Length :- 12.00 m

Nature of Damage :-

Details of Restoration Works :-

i. Material Being used in Restoration works :- Brick bats

ii. Equipment's / Tools being used in Restoration works :- Tractor trolly, J.C.B, Roller

iii. Procedure taken up in restoration works :- Mecanically & manually

iv. Restored Length :- 12.00 m

Bridge :

Damage Location / Chainage :-

Damage Length :-

Nature of Damage :-

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 :

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

Ram 09.12.2021 JE

9/12/21 AE

EE

The work is satisfactory

09/12/21

Executive Engineer
Rural Works Department
Works Division, Rajgir

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Korwan Ghana Bigha Road To Akopur

DISTRICT NALANDA
BLOCK HILS.
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	28552=00 ~~33459.000~~
	Total	~~33459.000~~
	TOTAL COST IN LACS =	~~0.335~~
	TOTAL COST OF PROJECT IN LACS =	~~0.335~~ 0.286 lac

25/10/21 E RWD

27/10/21 AE RWD

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. 28600=00

(Rupees Twenty Eight Thousand Six Hundred only)

Condition and [illegible] attached technical notes [illegible] strictly.

24/12/2021

S. E.

RWD

Work Circle Nalanda

22/12/2021

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

Name of Road: 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 seignorance fee (excluding over head and CP)						13.568		16295=00
				cum					~~15.830~~	1,201.00	~~19,012.00~~
2			Carrige for Brick bats including labour cess & GST (excluding over head and CP)	No					13.568 ~~15.830~~	564.910	7665=00 ~~8,943.00~~
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 ~~16.780~~	328.00	4592=00 ~~5,504.00~~
											~~33,459.00~~
											28552=00

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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

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

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

9/12/21
AE

09.12.2021
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 / 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

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SDB Sl. No.	MORD 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 contingencied 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 @ 0.0on (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