



ग्रामीण कार्य विभाग

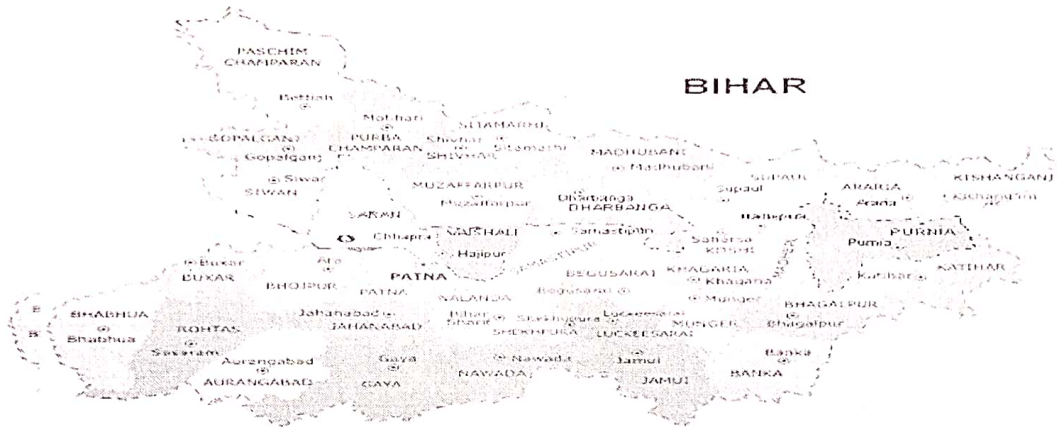
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Ghana Bigha Korwan-
Path to Shivshankarpur in *Ekangarsara* Block in Nalanda
District.



Name of the Road :-

Ghana Bigha Korwan Path to Shivshankarpur

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	<i>Ekangarsara</i>	
TOTAL COST OF CONSTRUCTION	:	12.651	Lac
TOTAL COST OF PROJECT	:	12.651	Lac

8-988

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

1. Name of PIUS :- E-E. R.W.D. Ind. D. HILSA
2. Name of Block/Road :- KARAI PARWAR

A. For Road : Ghana Bisha Kaswan Path to Shivshankarpur

1. Damage Location/Change :- 0.0 to 1.0 Km
2. Damage Length :- 636.50 m
3. Nature of Damage :- Flood 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 Pulley, JCB, Roller
iii. Procedure taken up in restoration works :- Mechanically & manually
iv. Restored Length :- 636.50m

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


AE


AE

EE


Executive Engineer
Rural Works Department
Works Division, Rajgir

The work is satisfactory.

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Ghana Bigha Korwan Path to Shivshankarpur

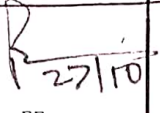
DISTRICT NALANDA
BLOCK HILSA
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	8,48,810 = 1265068.000
	Total	1265068.000
	TOTAL COST IN LACS =	12.651
	TOTAL COST OF PROJECT IN LACS =	12.651

Total 8.488


 IE
 RWD


 AE
 RWD


 EE
 RWD

Technically approved for Rs.....8,48,810 = 00

(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. ~~848,800.200.~~

(Rupees ~~Eight Lac Forty Eight~~

~~Thousand Eight Hundred only.~~)

Condition and details in attached

technical notes with ~~Priority.~~

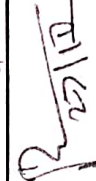
~~Approved~~
~~24/12/2021~~

RWD

Work Circle Nalanda

~~9~~
~~22/12/2021~~

Estimate for Motorable of Road from Ghana Bigha Korwan Path to Shivshankarpur in Karaiparsurai Block in Nalanda District.

Ghana Bigha Korwan Path to Shivshankarpur									
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					401.54 598.540	1,201.00	48,224.91 7,18,847.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					401.54 598.540	564.910	226833.20 3,38,121.00
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					426.20 634.452	328.00	139728.26 2,08,100.00
									12,65,068.00
 AE 25/10/24  RWD  AE 25/10/24  RWD  EE  RWD									8,48,810.00

Name of Road
Block
District

Ghana Bigha Korwan Path to Shivshankarpur
HILSA
NALANDA

Calculation of Brick Bats

Sl.No	No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	1	7.50	5.000 ✓	0.300 ✓	11.250
2	2	30.00 ✓	2.800 ✓	0.300 ✓	50.400
3	1	30.00 ✓	2.700 ✓	0.300 ✓	24.300
4	2	30.00	2.700	0.150	24.300
5	1	5.00	2.700	0.150	2.030
6	1	30.00	2.500	0.300	22.500
7	1	26.00	2.500	0.200	13.000
8	1	18.00	3.000	0.300	16.200
9	1	13.00	2.500	0.300	9.750
10	3	30.00	2.600	0.300	70.200
11	1	11.00	2.600	0.600 0.300	47.160 8.58
12	1	7.50	2.600	0.600	11.700
13	5	30.00	2.500	0.300	112.500
14	1	20.00	2.500	0.200	10.000
15	3	30.00	3.500 2.500	0.600 0.300	189.000 67.5
16	1	19.00	2.500	0.300	14.250
				Total	598.540

468.46 m³

Am
25/11/24
20/12/24

Am
25/11/24
H.E
RWD

R
27/10
E.E
Am
09/12/24
E.E.
R.W.D.
Rajshik

Quantity after deduction of voids = $468.46 \times \frac{12}{14}$

= 401.54 cum
Ramo
09.12.2024
JR
Am
9/12/24
As

Analysis for Carriage by Road (By Tractor)

Name of Road:-- Ghana Bigha Korwan Path to Shivshankarpur
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	27.78	x	1.00 Km	=	Rs 44.46
				2.25						2.25							

Carriage Including GST and Labour Cess For Brick Bats

564.9096

[Signature]
AE
RWD

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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				
		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

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RCD