



ग्रामीण कार्य विभाग

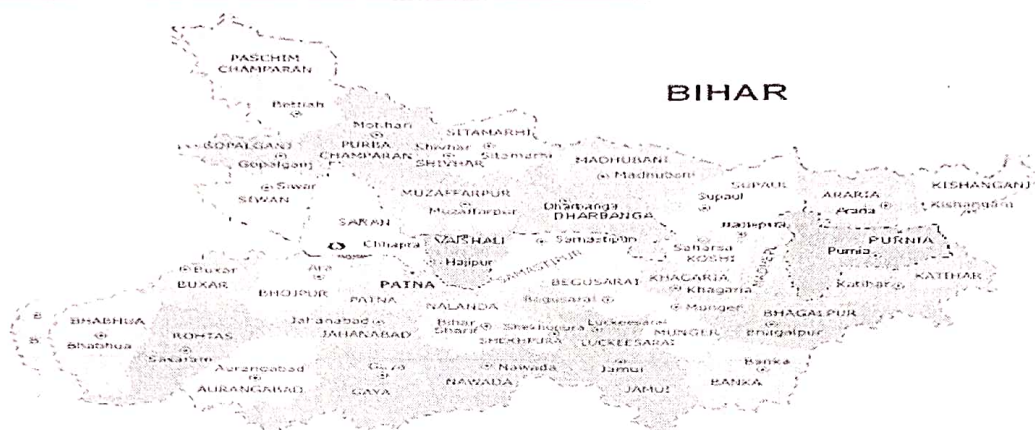
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Diawan Berthu Road
Musadhi Makrautta Jalalpur in Karaiparsurai Block in
Nalanda District.



Name of the Road :-

Diawan Berthu Road Musadhi Makrautta Jalalpur in Karaiparsurai Block

DISTRICT	:	NALANDA	
DIVISION	:	HILSA	
BLOCK	:	Karaiparsurai	
TOTAL COST OF CONSTRUCTION	:	20.007	Lac
TOTAL COST OF PROJECT	:	20.007	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-HILSA

16-253/94

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

1. Name of PIUS :- R.W.D. WORKS DIVISION NITLSA
2. Name of Block/Road :- KARAI PAR SURAB

A. For Road : *Diwanam Beshu Road Musadhi Makseutta Jalapur in Karai Pessurasi Block.*

1. Damage Location/Change :- 5500.0 to 6300.0 m
2. Damage Length :- 317.20 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 Trolley, J.C.B., Roller,
- iii. Procedure taken up in restoration works :- Mechanically & manually
- iv. Restored Length :- 317.20 m

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

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28/11/21

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28/11/21

Executive Engineer
Rural Works Department
Works Division, Rajgir

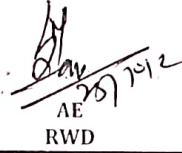
The work is satisfactory.

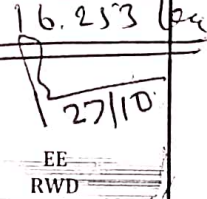
SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Diawan Berthu Road Musadhi Makrautta Jalalpur in
DISTRICT Karaiparsurai Block
BLOCK NALANDA
DIVISION HILSA
DIVISION HILSA

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	16,25,256.23 2000745.000
	Total	2000745.000
	TOTAL COST IN LACS =	20.007
	TOTAL COST OF PROJECT IN LACS =	20.007


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25/11/21


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RWD
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RWD
27/10

Technically approved for Rs.....

(Rupees.....)

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

अधोक्षण आभयन्ता
ग्रामीण कार्य विभाग
कार्य अंचल (नालन्दा)

S. E.
RWD
Work Circle Nalanda

Technically Sanctioned for Rs...16,25,300.00
(Rupees...Sixteen lac Twenty Five
.....Thousand Three Hundred Only.
Condition and direction attached
technical notes with strictly.

Amur
24/12/2021
S. E.

RWD

Work Circle Nalanda

22/12/2021

**Estimate for Motorable of Road from Diawan Berthu Road Musadhi Makrautta Jalalpur in Karaiparsurai Block
in Nalanda District.**

Name of Road Diawan Berthu Road Musadhi Makrautta Jalalpur in Karaiparsurai Block									
Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	SUB HEAD : EARTHWORK, BRICKS BATS, SAND FILLING Construction of Bricks Bats Supplying Brick bats with carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)	cum					763.973 946.610	1,201.00	923536.00 1136879.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					768.973 946.610	564.910	434400.00 534749.00
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					815.00 1,003.407	328.00	267320.00 329117.00
									20,00,745.00
									16,25,256.00
									27150
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									RWD
									AE
									RWD

Name of Road Diawan Berthu Road Musadhi Makrautta Jalalpur in Karaiparsurai Block
Block HILSA
District NALANDA

Calculation of Brick Bats

Sl.No	No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	1	15.00	6+10 8.000	3.000	360.000
2	1	15.00	7.000	1.750	183.750
3	1	15.00	7.000	1.000	105.000
4	1	10.00	3.000	0.600	18.000
5	1	8.00	4.000	0.200	6.400
6	1	30.00	2.500	0.500	37.500
7	3	15.00	3.000	0.500	67.500
8	1	6.00	3.000	0.300	5.400
9	1	12.00	2.000	0.300	7.200
10	1	10.00	4.000	0.300	12.000
11	1	5.60	1.8 4.800	0.200	2.020 2.016
12	1	11.00	3.000	0.200	6.600
13	3	30.00	2.400	0.300	64.800
14	1	7.00	2.400	0.150	2.520
15	1	6.00	1.500	0.150	1.350
16	1	43.20 15.0	2.400 3.4	0.200 0.15	6.340 7.65
17	1	30.00 15	1.000 3.4	0.200 0.15	6.000 7.65
18	1	10.00	1.000	0.200	2.000
19	1	40.00 7m	3.000	0.300 0.15	9.000 3.15
20	1	5.20	4.000	0.300	1.560
21	1	6.00	4.000	0.150	0.900
22	3	30.00	1.000	0.150	13.500
23	1	9.20	1.000	0.150	1.380
24	1	5.00	1.000	0.150	0.750
25	1	2.50	2.000	0.150	0.750
26	1	9.00	6.200	0.300	16.740
27	1	10.00	1.200	0.150	1.800
28	1	4.00	6.000	0.150	3.600
29	1	3.00	2.500	0.300	2.250
Total					943.610

897.136m³

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Quantity after deduction of voids = $897.136 \text{ m}^3 \times \frac{12}{14}$ R.W. 1/15/21
 $= 768.973 \text{ m}^3$

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Analysis for Carriage by Road (By Tractor)

Name of Road:- Diawan Berthu Road Musadhi Makrautta Jalalpur in Karaiparsurai Block

District:- NALANDA Block :- HILSA

District:-		NALANDA		BLOCK :- HASTA																
Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km												Loading & Unloading Cost	Carriage Cost by Rail Head	Total *		
				Pukka / 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	206.37	0.00	Rs. 499.92
				2.25							2.25									

Carriage Including GST and Labour Cess For Brick Bats

564.910

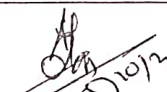
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SDB Sl. No.	MOR D Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount (in Rs)
1.1 RCD		Loading and Unloading of brick bats with tractor				
		Unit=cum				
		Taking output= 2.25 cum				
		Time required for				
		i) Positioning of tipper at loading point		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 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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