



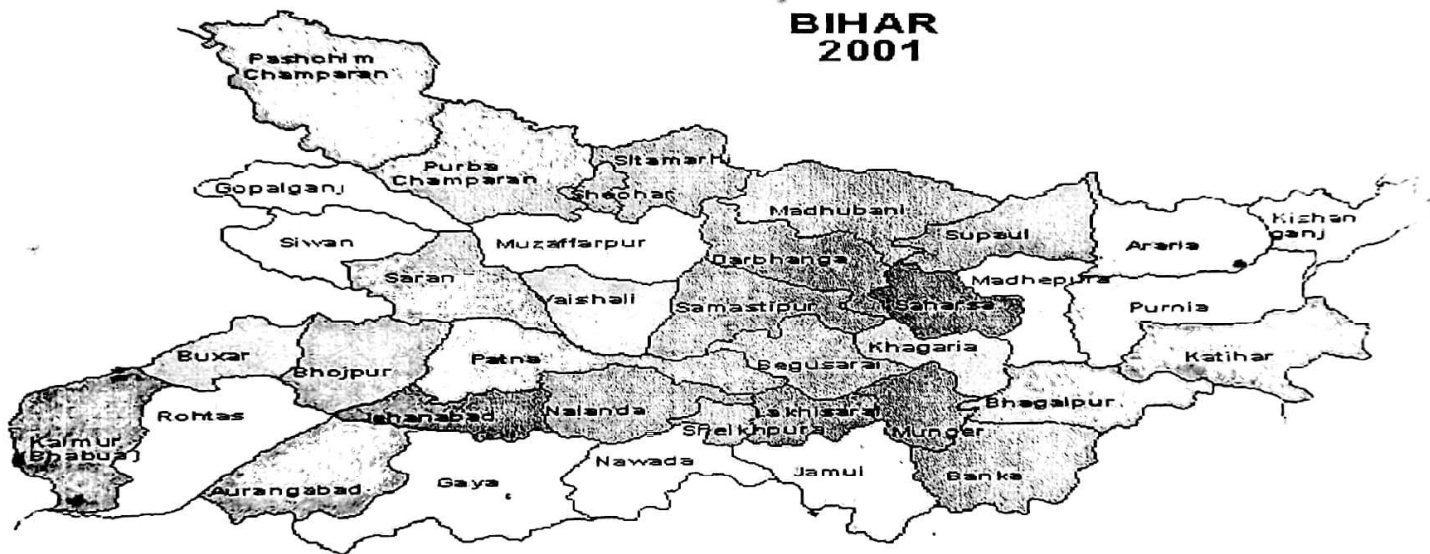
ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

ESTIMATE FOR MOTORABLE OF ROAD FROM L049-T02 TO RAJPUR UNDER FDR AT BLOCK- GIRIYAK IN NALANDA DISTRICT



DISTRICT :	NALANDA	BLOCK :	GIRIYAK
NAME OF ROAD :	L049-T02 TO RAJPUR		
TOTAL LENGTH IN KM.	:	2.133	KMS
DAMAGE LENGTH	:	0.0370	KMS
TOTAL CONSTRUCTION COST	:	4.642	Lakhs
		5.596	
SUBMITTED BY: EXECUTIVE ENGINEER RWD (W) DIVISION, RAJGIR NALANDA			

प्रतिवेदन

कार्य का नाम :- L049-T02 राजपुर के बाढ़ में हुए क्षतिग्रस्त भाग के मरम्मत कार्य।

पथ की स्थिति :- पथ अनुरक्षण अवधि में नहीं है।

पथ की लम्बाई :- 2.133 कि०मी०

क्षतिग्रस्त पथ की लम्बाई :- 37 मीटर

मरम्मत कार्य का प्राक्कलित राशि :- 4.642 लाख

दिनांक- 30.09.2021 के मध्य रात्रि को सकरी नदी में अत्यधिक पानी आ जाने के कारण विषयांकित पथ में कई स्थान पर कटाव तथा पथ क्षतिग्रस्त हो गया था। जिसके कारण यातायात बाधित हो गया था। पथ में तत्काल मरम्मत का कार्य करना अत्यावश्यक था। जिला पदाधिकारी नालंदा एवं विभागीय निदेशानुसार पथ के क्षतिग्रस्त भाग की मरम्मत का कार्य कराया है। मरम्मत कार्य में क्षतिग्रस्त भाग को ईंट के टुकड़ों (Brick Bats) एवं लोकल बालू से भरकर रॉलर से compaction कराकर पथ को motorable किया गया है।

पथ में 37 मीटर पथांस क्षतिग्रस्त हुआ है। जिसकी प्राक्कलित राशि रुपये 4.642 लाख मात्र आता है। प्राक्कलन ग्रामीण कार्य विभाग कार्य अंचल नालंदा कार्यालय से प्राप्त कोटेशन के आधार पर किया गया है। प्राक्कलन के साथ क्षतिग्रस्त भाग का फोटो ग्राफ एवं मापी पंजी की छाया प्रति सुलभ प्रसंग हेतु संलग्न है।

प्राक्कलन का तकनीकी अनुमोदन अपेक्षित है।


कमीय अभियंता
ग्रामीण कार्य विभाग
गिरियक


सहायक अभियंता
ग्रामीण कार्य विभाग
गिरियक


कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, राजगीर

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

1. Name of PIUS :- R.W.D Works Division Rajgir.
2. Name of Block/Road :- Giriyak/L049 - Tor to Rajpur.

A. For Road :

1. Damage Location/Change :-
2. Damage Length :- 37.0 M
3. Nature of Damage :- Breach
4. Details of Restoration Works :-
 - i. Material Being used in Restoration works :- Brick Bats and local sand.
 - ii. Equipment's / Tools being used in Restoration works :- Tractor, J.C.B - Roller
 - iii. Procedure taken up in restoration works :- Mechanically and Manual.
 - iv. Restored Length :- 37.0 M

B. For Bridge :

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 :-

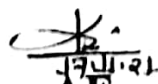
C. Requirement of New CD/Bridge :

- 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. WORK IS satisfactory.

Signature of


JE 17/11/21


AE 17/11/21


EE 17/11/21


17/11/21
Executive Engineer
R.W.D. Work Division
Biharsharif

FDR

GENERAL ABSTRACT OF COST

Block:-- GIRIYAK

District:- NALANDA

Total Length of Road:-- 2.133 KM

Bridge Length:-- 0.037 KM

Name of Road:--

L049-T02 TO RAJPUR

No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION	: 4.642 Lacs
	TOTAL PROJECT COST (A)	4.642 Lacs


25/10/21

Engineer


25/10/21
Asstt. Engineer


25/10/21
Executive Engineer

checked
gam
17/11/21
E.E. Biharsenik

SE
RWD

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD : L049-T02 TO RAJPUR

DISTRICT NALANDA
BLOCK GIRIYAK
DIVISION RAJGIR
LENGTH OF ROAD 2.133 km
DAMAGE LENGTH 0.037 km

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	Supplying , Filling , Spreading & Compacting of Brick Bats With Local Sand at work Site	5.596 4.642
2	SAND BAG	0.000
SUB TOTAL(A) =		4.642
TOTAL COST OF PROJECT (including GST & Labour Cess) IN LACS =		5.596 4.642

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Technically Sanctioned for Rs. 5,59,600 =

(Rupees Five Lacs Fifty Nine Thousand

Size Hundred only)

Condition and direction of work attached technical notes with Drawings and Survey

56—

Certified copy
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अधोक्षण आंभयन्ता
ग्रामीण कार्य विभाग
कार्य अंचल (नालन्दा)

S. E.
RWD
Work Circle Nalanda

L049 T02,to Rajpur

Name of Road		L049 T02 to Rajpur									
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 at site including labour cess, GST and seigniorance fee (excluding over head and CP)										
		cum					237.000	1,200.00	2,84,400.00		
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					237.000	560.887	1,32,930.00		
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					251.220	329.96	82,819.20		
							251.220		82,819.20		
									500/49=		
									5,60,222.00		
							A)Sub Total		5,60,222.00		
	SUB HEAD : PAVEMENT LAYERS - GSB & WBM ITEMS										
4	Supplying Sand with Carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)	Cum					59.260	340.000	20,148.60		

S.No	Description	Units	Length	Width	Height	Quantity	Rate	Amount (in Rs.)
5	Supplying unskilled labour for Sand bag including labour cess & GST (excluding over head and CP)	No				119 = 00 -118.520	329.96	34265.00 39107.00
								59413.00
							B) SUB TOTAL =	59235.00
							TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F) =	549478.00
							JE 23/10/21	559562.00
							AE 25.10.21	
							EE 25/10/21	
							RWD	
							RWD	

Name of Road:- L049 T02 to Rajpur
District:- NALANDA

L049 T02 to Rajpur

Block :- Bahui

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						Kachha								
				3.60 2.25	x	21.36	x	7.00 Km	=	Rs 239.27	3.60 2.25	x	26.59	x	1.00 Km			
1	Brick bat	Cum	Local															Rs. 496.36

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JE
RWD

Carriage Including GST and Labour Cess
For Brick Bats

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RWD

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560.8868

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RWD

SDE Sl. No.	MOR P. Ref. No.	DESCRIPTION	Unit	Quantity	Rate	Amount (in Rs)
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		8 Min		
		Total				
		a) Labour				
		Mate	day	0.03	418.1	12.543
		Mazoor for loading and unloading	day	0.72	329.96	237.571
		b) Machinery				
		Tractor 3.60 tonne capacity	hour	0.1	680	68.000
		Front end loader 1cum bucket capacity @25 cum/hour	hour	0.083	1650	136.950
		c) Overhead charges @ 0.06 on (a+b)				27.304
		d) contractor profit @ 0.0on (a+b+c)				0.000
		Cost for 2.25 cum= (a+b+c+d)				482.388
		Rate per cum= (a+b+c+d)/2.25				214.386
		Note Unloading will be done manually				
2. 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	680.00	453.560
		Time taken for empty return trip.	hour	0.4	680.00	272.000
		Total				725.560
		b) Add overhead charges @0.06				43.534
		c) Add contractor profit @0.0				0.000
		cost for 36 t.km = a+b+c				769.094
		Rate per t.km = (a+b+c)/36				21.364
	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	680.00	565.440
		Time taken for empty return trip	hour	0.5	680.00	340.000
		Total				905.440
		b) Add overhead charges @0.06				54.386
		c) Add contractor profit @0.0				0.000
		Cost for 36 t.km = a+b+c				960.826
		Rate per t.km = (a+b+c)/36				26.690

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Brick Bats

Sl. No.	Km	No.	Length	Width	Depth	Volume	Remarks
1	0.350m	1	13.70	5.40	1.50	110.97	
		1	3.80	2.00	1.00	7.60	
		1	17.00	6.00	1.50	153.00	
		1	2.50	2.00	1.00	5.00	
		Total	37			276.57	

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E.E.

~~Local sand - 276.57 x 30%~~

~~Qty = 82.971 M³~~

Qty. after deduction of voids

$$\frac{12}{14} \times 276.57 = 237.05 \text{ M}^3$$

Local Sand.

$$237.05 \times 25\% = 59.26 \text{ M}^3$$

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