



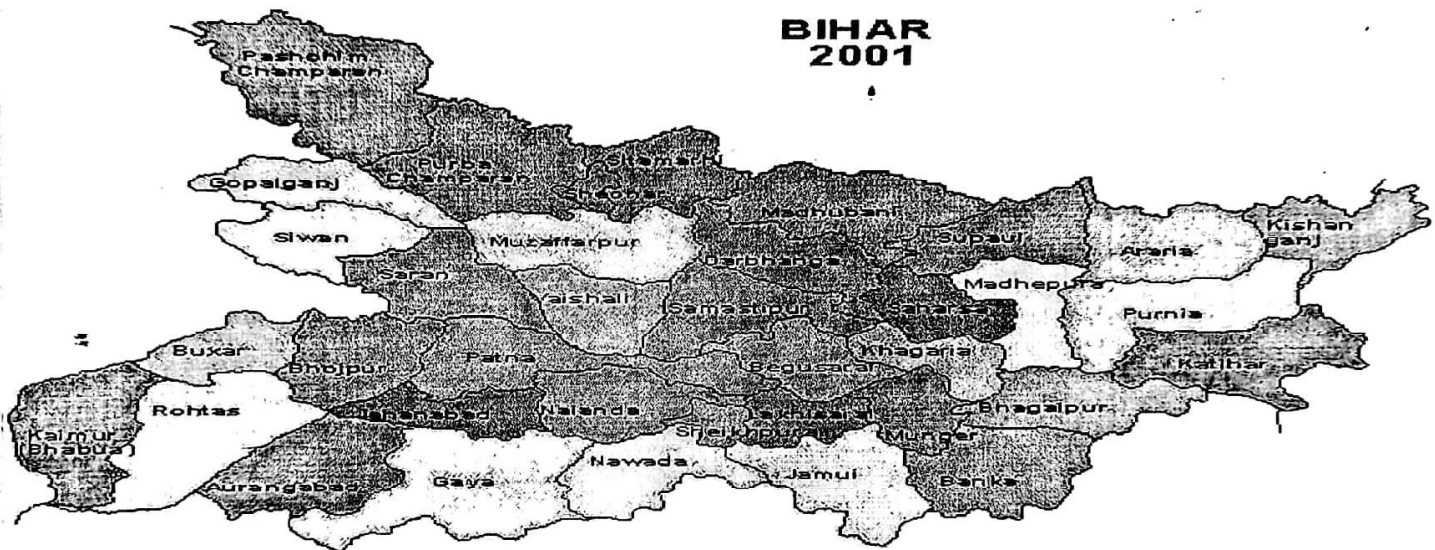
ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

ESTIMATE FOR MOTORABLE OF ROAD FROM BADI GURU SAHAYLAL ROAD TO BAHADURGANJ NAYA TOLA UNDER FDR AT BLOCK- KATRI SARAI IN NALANDA DISTRICT



DISTRICT :	NALANDA	BLOCK :	KATRI SARAI
NAME OF ROAD :	BADI GURU SAHAYLAL ROAD TO BAHADURGANJ NAYA TOLA		
TOTAL LENGTH IN KM.	:	1.850	KMS
DAMAGE LENGTH	:	0.0260	KMS
TOTAL CONSTRUCTION COST	:	0.863	Lakhs
		1.031	Lakhs
SUBMITTED BY: EXECUTIVE ENGINEER RWD (W) DIVISION, RAJGIR NALANDA			

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प्रतिवेदन

कार्य का नाम :- बादी गुरुसहायलाल पथ से बहादुरगंज नया टोला के बाढ़ में हुए क्षतिग्रस्त भाग के मरम्मत कार्य।

पथ की स्थिति :- पथ अनुरक्षण अवधि में है।

पथ की लम्बाई :- 1.85 कि०मी०

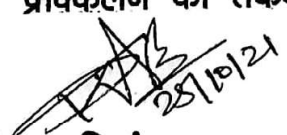
क्षतिग्रस्त पथ की लम्बाई :- 26 मीटर

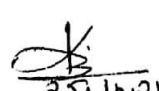
मरम्मत कार्य का प्राक्कलित राशि :- 0.863 लाख

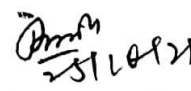
दिनांक- 30.09.2021 के मध्य रात्रि को सकरी नदी में अत्यधिक पानी आ जाने के कारण विषयांकित पथ में कई स्थान पर कटाव तथा पथ क्षतिग्रस्त हो गया था। जिसके कारण यातायात बाधित हो गया था। पथ में तत्काल मरम्मत का कार्य करना अत्यावश्यक था। जिला पदाधिकारी नालंदा एवं विभागीय निदेशानुसार पथ के क्षतिग्रस्त भाग की मरम्मत 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 26 मीटर पथांस क्षतिग्रस्त हुआ है। जिसकी प्राक्कलित राशि रुपये 0.863 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 फीटै ग्राफ एवं मापी पंजी की छाया प्रति सुलभ प्रसंग हेतु संलग्न है।

प्राक्कलन का तकनीकी अनुमोदन अपेक्षित है।


कनीय 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 :- Katarisaraai / Badi Gousahay bal Road to Bahadurganj Naya Tola.

A. For Road :

1. Damage Location/Change :-
2. Damage Length :- 26.00 M
3. Nature of Damage :- partially Break in road.
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, Rollers.
 - iii. Procedure taken up in restoration works :- Mechanically and Manual.
 - iv. Restored Length :- 26.00 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 :-

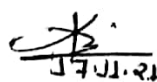
C. Requirement of New CD/Bridge :

- i. Name of Road :-
- ii. Location Chainage :-
- iii. Type of CD work/Length required :-

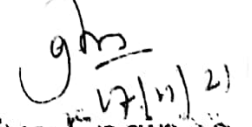
- Upload one photograph of damaged portion if available
-
- Attach minimum two photograph (during restoration & after restoration) photographs should be Geotags and at least one photo be captured in selfie mode. Work is satisfactory.

Signature of


JE 17/11/21


AE 17/11/21


EE 17/11/21


Executive Engineer
R.W.D. Work Division
Biharsharif

FDR

GENERAL ABSTRACT OF COST

ck:- KATRI SARAI

District:- NALANDA

al Length of Road:-- 1.850 KM

nage Length:-- 0.026 KM

ne of Road:--

BADI GURU SAHAYLAL ROAD TO BAHADURGANJ NAYA TOLA

No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION	1.031 0.863 Lacs
	TOTAL PROJECT COST (A)	1.031 0.863 Lacs

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Asstt. Engineer

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Executive Engineer

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EE, Biharsharif

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RWD

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD :

BADI GURU SAHAYLAL ROAD TO BAHADURGANJ NAYA TOLA

DISTRICT

NALANDA

BLOCK

KATRI SARAI

DIVISION

RAJGIR

LENGTH OF ROAD

1.850 km

DAMAGE LENGTH

0.026 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	1.031 0.863
2	SAND BAG	0.000
	SUB TOTAL(A) =	0.863
	TOTAL COST OF PROJECT (including GST & Labour Cess) IN LACS =	0.863
		1.031
	JE RWD	AE RWD
		EE RWD

Technically Sanctioned for Rs. 1,03,100.000...

(Rupees... One... lac... Three... Thousand

...One Hundred only...)

Condition and direction to be given in attached technical notes with DPR...

sd-

S. E.

RWD

Work Circle Nalanda

certified copy

अधोक्षण आभयन्ता
ग्रामीण कार्य विभाग
कार्य अंचल (नालन्दा)

23/12/2021

Badi Guru Sahalal Road to Bahadurganj naya tola

Name of Road Badi Guru Sahalal Road to Bahadurganj naya tola

Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
	SUB HEAD: EARTHWORK BRICK 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					43.710	1,200.00	52,452.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	cum					43.710	560.887	24,516.00
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					46.333 46.700	329.96	15,178.60 15,288.00
							A) Sub Total		92,256.00
	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					10.920	340.000	3,713.00

Sl. No.	Description	Unit	NOS	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					22=00 21840	329.96	7259=0 7206.00
									10972=0
								B) SUB TOTAL =	10,915.00
								TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F) =	10,31,18.00
								10,31,18.00	
								EE	
								RWD	

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Badi Guru Sahalal Road to Bahadurganj naya tola

Name of Road:- Badi Guru Sahalal Road to Bahadurganj naya tola

District:- NALANDA

Block :- Rahui

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km										Loading & Unloading Cost	Carriage Cost by Rail Head	Total *			
				Packs / Surface					Katcha										
1	Brick bat	Cum	Local	3.60	x	21.36	x	7.00 Km	=	Rs 239.27	3.60	x	26.69	x	1.00 Km	=	Rs 42.70	0.00	Rs. 496.36
				2.25	x		x			2.25									

Carriage Including GST and Labour Cess

For Brick Bats

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RWD

SDB Sl. No.	MOR P. 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	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 @ 0.08 on (a+b)				27.304
		d) contractor profit @ 0.0on (a+b+c)				0.000
		Cost for 2.25 cum = (a+b+c+d)				482.368
		Rate per cum = (a+b+c+d)/2.25				214.386
	Note	Unloading will be done manually				
1.2 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 tonnes 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 @0.08				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	566.440
		Time taken for empty return trip	hour	0.5	680.00	340.000
		Total				906.440
		b) Add overhead charges @0.08			cum	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 Measurement

Sl. No.	Km	No.	Length	Width	Depth	Volume	Remarks
1	0-350m	1	8.00	3.50	0.50	14.00	
		1	8.00	4.00	1.00	32.00	
		1	10.00	1.00	0.50	5.00	
		Total	26			51.00	

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~~Local Sand - 51.00 X 30%~~

~~Qty. 15.3 M³~~

Qty. after deduction of voids

$$\frac{12}{14} \times 51.00 = 43.71 \text{ M}^3$$

Local Sand

$$43.71 \times 25\% = 10.92 \text{ M}^3$$

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