



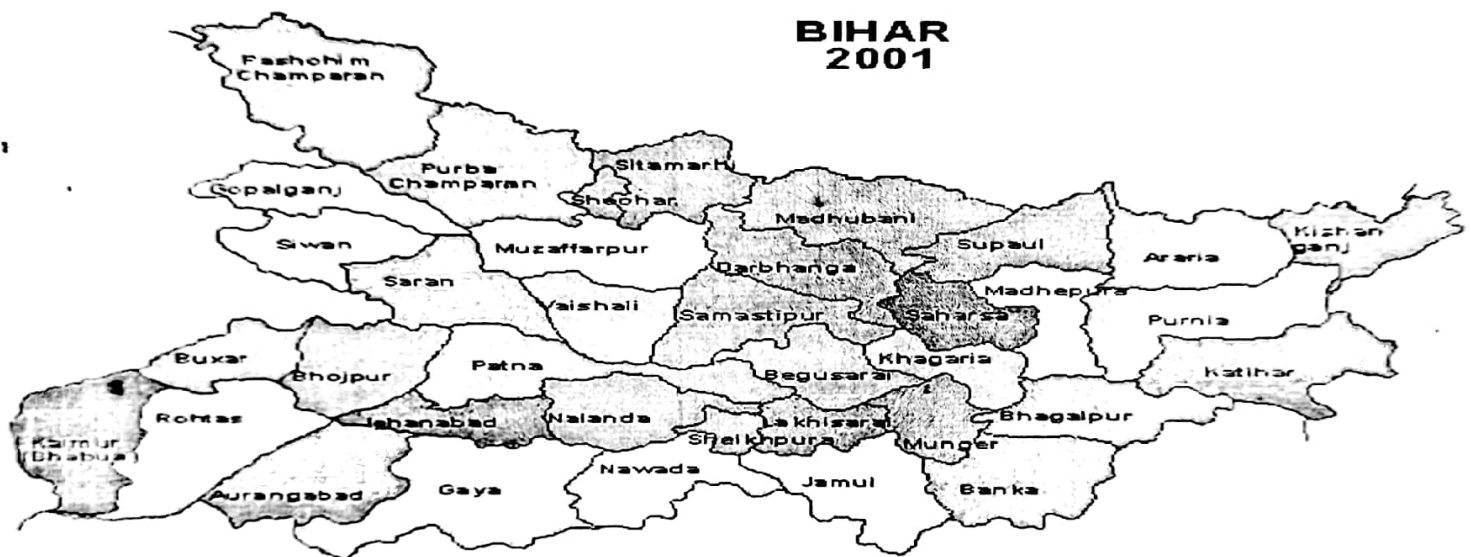
ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

ESTIMATE FOR MOTORABLE OF ROAD FROM L056-T02 TO PATORIYA UNDER FDR AT BLOCK- KATRI SARAI IN NALANDA DISTRICT



DISTRICT :	NALANDA	BLOCK :	KATRI SARAI
NAME OF ROAD :	L056-T02 TO PATORIYA		
TOTAL LENGTH IN KM.	:	1.187	KMS
DAMAGE LENGTH	:	0.1172 0.0449	KMS
TOTAL CONSTRUCTION COST	:	16.553 19.843	Lakhs

SUBMITTED BY:

EXECUTIVE ENGINEER
RWD (W) DIVISION, RAJGIR
NALANDA

slc

प्रतिवेदन

कार्य का नाम :- L056-T02 पटोरिया के बाढ़ में हुए क्षतिग्रस्त भाग के मरम्मत कार्य।

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

पथ की लम्बाई :- 1.187 कि०मी०

क्षतिग्रस्त पथ की लम्बाई :- 117 मीटर

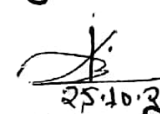
मरम्मत कार्य का प्राक्कलित राशि :- 16.553 लाख

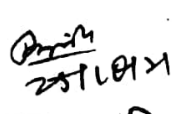
दिनांक- 30.09.2021 के मध्य रात्रि को सकरी नदी में अत्यधिक पानी आ जाने के कारण विषयांकित पथ में कई स्थान पर कटाव तथा पथ क्षतिग्रस्त हो गया था। जिसके कारण यातायात बाधित हो गया था। पथ में तत्काल मरम्मत का कार्य करना अत्यावश्यक था। जिला पदाधिकारी नालंदा एवं विभागीय निदेशानुसार पथ के क्षतिग्रस्त भाग की मरम्मत 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 तथा आवश्यकतानुसार sand bags का उपयोग किया गया है।

पथ में 117 मीटर पथांस क्षतिग्रस्त हुआ है। जिसकी प्राक्कलित राशि रुपये 16.553 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 फीटो 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 :- Kadirganj / 6056-TO-2 to Padariya.

A. For Road :

1. Damage Location/Change :-
2. Damage Length :- 117.00 M
3. Nature of Damage :- Breach
4. Details of Restoration Works :-
 - i. Material Being used in Restoration works :- Brick Bats, Local Sand and Sand Bag.
 - ii. Equipment's / Tools being used in Restoration works :- Tractor, G.C.B, Roller.
 - iii. Procedure taken up in restoration works :- Mechanically and Manual.
 - iv. Restored Length :- 117.00 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 :-

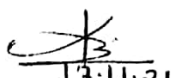
C. Requirement of New CD/Bridge :

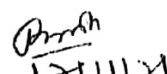
- i. Name of Road :-
- ii. Location Chainage :-
- iii. Type of CD work/Length required :-

- 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.

Signature of


JE


AE


EE


12/11/21
Executive Engineer
R.W.D. Work Division
Biharshahri

FDR

GENERAL ABSTRACT OF COST

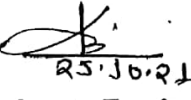
Location: KATRI SARAI

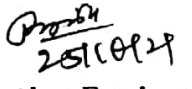
District:- NALANDA

• Total Length of Road:-- 1.187 KM
• Bridge Length:-- 0.045 KM
• Name of Road:-- L056-T02 TO PATORIYA

No.	Item of Work	Amount
	TOTAL COST OF CONSTRUCTION	19.943 16.553 Lacs
	TOTAL PROJECT COST (A)	19.943 16.553 Lacs


28/10/21
Engineer


25.10.21
Asstt. Engineer


28/10/21
Executive Engineer

checked

17/11/21
E E, Bihar Sahib

SE
RWD

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

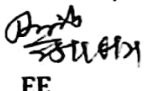
NAME OF ROAD : L056-T02 TO PATORIYA

DISTRICT NALANDA
BLOCK KATRI SARAI
DIVISION RAJGIR
LENGTH OF ROAD 1.187 km
DAMAGE LENGTH 0.045 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	19.943 16.541
+2	SAND BAG	0.012
SUB TOTAL(A) =		16.553
TOTAL COST OF PROJECT (including GST & Labour Cess) IN LACS =		19.943 16.553


JE
RWD


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RWD


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RWD

Technically Sanctioned for Rs. 19,94,300.00

(Rupees...Nineteen...Lacs...Ninety...Four

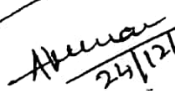
...Thousand...Three...Hundred...Only

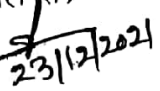
Condition and direction laid down in attached

technical notes with DPR is to be strictly followed.

5d—

certified copy


24/12/2021
अधोक्षण आभयन्ता
ग्रामीण कार्य विभाग
कार्य अंचल (नालन्दा)


23/12/2021

L056 T02 To Patoriya

Name of Road L056 T02 To Patoriya										
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					844.780	1,200.00	10,13,736.00	
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	cum					844.780	560.887	4,73,826.00	
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					895.200 895.167	329.96	295,314.00 2,95,466.00	
							A) Sub Total		17,63,836.00	
4	Supplying Empty Cement Bag at site including labour cess, GST and	No					42.00	8.50	357.00	
5	Supplying Sand with Carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)	Cum					211.100	340.000	71,805.00 71,805.00	

Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
6	Supplying unskilled labour for Sand bag including labour cess & GST (excluding over head and CP)	No					422 422.380	329.96	139243 139369.00
									211048 211231.00
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F) =									1994281 199554.00
B) SUB TOTAL =									211231.00
JE									EE
RWD									RWD

AF 16.21

25/10/21

L056 T02 To Patoriya

Name of Road:- L056 T02 To Patoriya
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
				Pukka / 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	
				2.25	x		x				2.25	x		x			Rs. 496.36	

Carriage Including GST and Labour Cess
For Brick Bats

560.8868

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H.E

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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		8 Min		
		Total				
		a) Labour				
		Male				
		Mazoor for loading and unloading	day	0.03	418.1	12.543
		b) Machinery	day	0.72	329.96	237.571
		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 @ 0.0 on (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				
1.1.10.2		Cost for 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 @0.08				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	568.440
		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

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A.E.

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25.10.21
A.E.

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E.E.

Brick Bats

Sl. No.	Km	No.	Length	Width	Depth	Volume	Remarks
1	0-350m	1	5.00	0.50	1.00	2.50	
		1	0.00	1.50	0.23	0.00	
		1	4.70	1.80	1.00	8.46	
		1	4.00	2.20	0.90	7.92	
		1	3.70	3.70	1.00	13.69	
2	350-1840m	1	5.00	2.00	1.05	10.50	
		1	2.00	1.00	1.00	2.00	
		1	20.50	5.50	3.00	338.25	
		1	22.50	5.00	3.00	337.50	
		1	2.30	1.00	0.34	0.78	
		1	48.00	2.75	2.00	264.00	
		Total	44.9			985.60	

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E.E

~~Local Sand - 985.60 X 30%~~

~~Qty - 295.68 m³~~

Qty. after deduction of voids.

$$\frac{12}{14} \times 985.60 = 844.79$$

Local Sand

$$844.79 \times 25\% = 211.19 \text{ m}^3$$

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