

Inspection Report For Flood Damage Work

Date :- 25.11.2021

1. Name of PIUs :- Er Bijay Kumar

2. Name of Block/Road :- Rahui/Bihar Nigaj Road in Nathurapur To Faridpur

A. For Road

1. Damage Location/Chainage :- 3.40 KM to 5.80 KM

2. Damage Length :- 173.10 mtr

3. Nature of Damage :- Crust and flank

4. Details of Restoration Works :-

- Material being used in Restoration Works:- BrickBats and G.S.B
- Equipments/ Tools being used in Restoration Works:- JCB, roller and tractor
- Procedure taken up in Restoration Works:- De partmentel
- Restored Length:- 173.10 mtr

B. For Bridge

1. Damage Location/Chainage:-

2. Damage Length:-

3. Nature of Damage:-

4. Details of Restoration Works:-

- Material being used in Restoration Work:-
- Equipments/ Tools being used in Restoration Works:-
- Procedure taken up in Restoration Works:-
- Restored Length:-

NA

C. Requirement Of New CD/Bridge

i. Name of Road:-

ii. Location Chainage:-

iii. Type of CD Work/Length Required

Upload one photograph of damage 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 self taking

K. S. S. S.
25.11.21
Signature of JE/AE/EE

[Signature]
25.11.2021
Signature of verifying officer



ग्रामीण कार्य विभाग

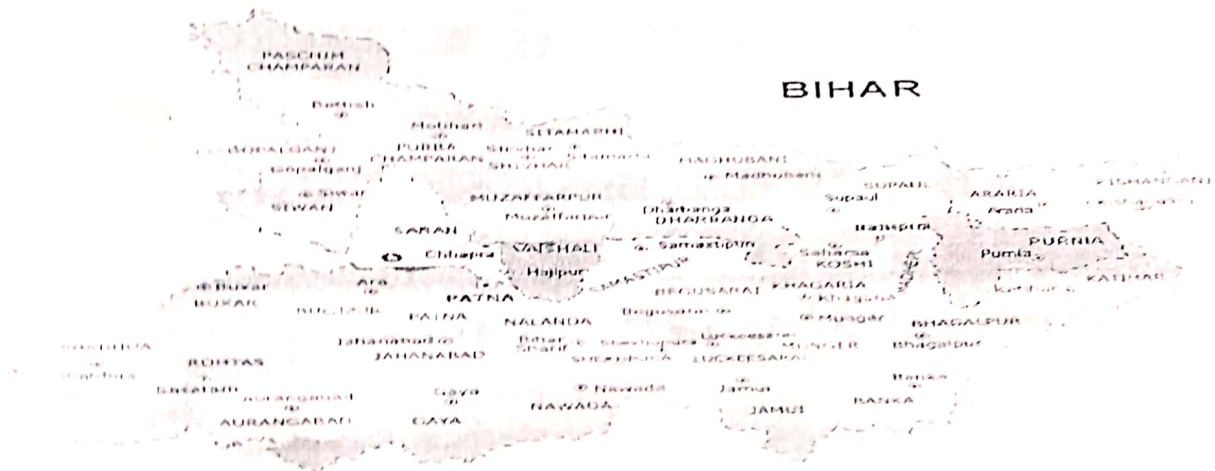
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Bihar Nijy Road in Mathurapur to Farida in Nalanda District.



Name of the Road :-

Bihar Nijy Road in Mathurapur to Farida

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Rahui	
TOTAL COST OF CONSTRUCTION	:	1.50/1.726	Lac
TOTAL COST OF PROJECT	:	1.50/1.726	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

पथ का नाम :- बिहार-निजाय पथ से मथुरापुर से फरीदा
प्राक्कलित राशि :- 1.726 लाख
1.501

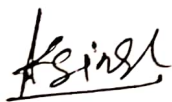
प्रतिवेदन 1.501

प्रस्तुत प्राक्कलन जिसकी प्राक्कलित राशि 1.726 लाख है ग्रामीण कार्य विभाग, कार्य प्रमंडल, बिहारशरीफ अन्तर्गत रहुई प्रखंड में वर्ष-2021 में आयी बाढ़ के कारण क्षतिग्रस्त पथ के मरम्मत हेतु तैयार किया गया है।

उपर्युक्त पथ का निर्माण नावार्ड योजनान्तर्गत किया गया है। वर्ष-2021 में पंचाने नदी में आई बाढ़ के कारण पथ के उपर से पानी का बहाव शुरू हो गया एवं पानी बहाव के कारण मिट्टी का कटाव हुआ एवं पथ 173.1 मीटर लंबाई में कटाव हो गया फलतः आवागमन बाधित हो गया एवं ग्रामीणों का अन्य जगह से संपर्क टुट गया।

विभागीय निर्देशानुसार कटे हुए भाग को ईट के टुकड़ों से भरने के उपरान्त उसके उपर GSB का एक परत देकर आवागमन को चालू किया गया। पूर्ण रूप से कटे हुए फलैंक में ब्रिक बैट द्वारा पथ मरम्मत किया गया। प्रस्तुत प्राक्कलन में कराए गए कार्य में ब्रिक बैट, एवं GSB का उपयोग किया गया। कार्य के उपरान्त स्थल निरीक्षण के क्रम में उच्चाधिकारियों द्वारा जाँच करा लिया गया है। प्राक्कलन में लिया गया दर अंचल कार्यालय द्वारा पत्रांक-458 दिनांक-19.06.2021 द्वारा अनुमोदित दर से लिया गया है। सिर्फ ढुलाई का दर नहीं रहने के कारण इसे वर्तमान अनुसूचित दर पर तैयार किया गया है।

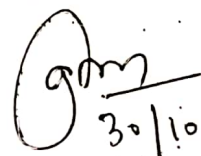
इस योजना की राशि FDR (3054) में भारित होगा। यथाशीघ्र प्राक्कलन की स्वीकृति अपेक्षित है।


28.10.21

कनीय अभियंता,
कार्य प्रशाखा, रहुई


29.10.21

सहायक अभियंता
कार्य अवर प्रमंडल, रहुई


30.10.21

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बिहारशरीफ

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Bihar Nijy Road in Mathurapur to Farida

DISTRICT

NALANDA

BLOCK

Rahui

DIVISION

Biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	135022 157525.000
5	GSB	15087.801
	Total	172612.801
	TOTAL COST IN LACS =	1.501 1.726
	TOTAL COST OF PROJECT IN LACS =	1.501 1.726

Asin
29.10.21

JE
RWD

By
29/10/21

AE
RWD

T. Amt. - 1.501 Lacs
gm
32/10/21

EE
RWD

Sanctioned

Technically approved for Rs. 1,50,100/-

(Rupees one lac Fifty Thousand
one hundred only)

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

Humar
9/12/2021
S. E.

RWD

Work Circle Nalanda

g
6/12/2021

land

Description							Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY
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						67.022
						No						78.192
						No						67.022
						No						78.19
						No						71.043
						No						82.88
Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS												
Supplying GSB with carriage at site including labour cess , GST and seigniorance fee (excluding over head and CP)												
												9.023
												1.67
Qty of GSB from Measurement Sheet												
C) SUB TOTAL OF CRUS												
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+)												

Name of Road Bihar Nijy Road in Mathurapur to Farida
Block Rahui
District NALANDA

Calculation of GSB

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	7.00	x	3.50	x	$\frac{0.10+0.2+0.10}{3}$	=	3.267
2	4.50	x	2.70	x	0.075	=	0.911
2	2.80	x	2.30	x	0.075	=	0.483
2	1.50	x	1.50	x	0.075	=	0.169
2	10.70	x	2.80	x	0.075	=	2.247
2	2.00	x	2.00	x	0.075	=	0.300
2	1.50	x	1.50	x	0.075	=	0.169
2	3.00	x	2.90	x	$\frac{0.075+0.150+0.075}{3}$	=	0.870
2	2.70	x	3.00	x	0.075	=	0.608
							9.023

Ksirel
28.10.21
J E

AB
29/10/21
AB

Name of Road Bihar Nijy Road in Mathurapur to Farida
Block Rahui
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	75.00	x	$\frac{0.60+0.90}{2}$	x	$\frac{0.50+0.70}{2}$	=	33.750
2	20.00	x	$\frac{0.5+0.80}{2}$	x	$\frac{0.40+0.60}{2}$	=	6.500
6	4.10	x	$\frac{0.50+0.60}{2}$	x	$\frac{0.40+0.50}{2}$	=	1.015
4	12.50	x	$\frac{0.60+1.0}{2}$	x	$\frac{1.0+1.10}{2}$	=	10.500
4	24.00	x	$\frac{0.50+0.80}{2}$	x	$\frac{0.40+0.60}{2}$	=	7.800
4	7.00	x	$\frac{1.0+1.30}{2}$	x	$\frac{0.50+0.60}{2}$	=	4.428
4	10.00	x	$\frac{1.0+1.00}{2}$	x	$\frac{0.30+0.45}{2}$	=	3.750
4	10.00	x	$\frac{1.0+0.80}{2}$	x	$\frac{0.30+0.40}{2}$	=	3.150
4	8.00	x	$\frac{1.0+1.30}{2}$	x	$\frac{0.50+0.70}{2}$	=	5.520
4	1.50	x	$\frac{2.0+1.20}{2}$	x	$\frac{0.40+0.80}{2}$	=	1.442
4	1.00	x	$\frac{0.80+1.00}{2}$	x	$\frac{0.30+0.45}{2}$	=	0.338
							<u>78.192</u>

Qty after deduction of voids $\frac{12}{14} \times 78.192 = 67.022 \text{ m}^3$

Rs. 28.10.21
T E
By 29/10/21
AB

2	Rahui	31 to Pachasa Village Paswan Tola. (Incl. 5 Years)	isolated	Yes	2.025
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Analysis for Carriage by Road (By Tractor)

Name of Road:-- Bihar Nijy Road in Mathurapur to Farida

District:-- NALANDA

Block :- Rahui

SI 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	19.79	x	7.00 Km	=	Rs 221.68	3.60	x	24.73	x	1.00 Km	=	Rs 39.56	186.67	0.00	Rs 447.91
				2.25						2.25										

Asimk
28.10.24
JE
RWD

Carriage Including GST and Labour Cess
For Brick Bats

By 29/10/24
AE
RWD

gsm
30/10/24
EE
RWD
506.1383

Analysis of Rates (FORMAT F8)

PAVEMENT CRUST LAYERS					
402	For Grading II Material (Type B)				
	Construction of Gravel/Soil-aggregate base by providing well graded material, spreading in uniform layers with motor pn prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with three wheel 80-100 kn static roller to achieve the desired density. complete as per Technical Specification Clause 402.				
(ii)	For Grading II Material (Type B)				
	Unit = cum				
	Taking output = 300 cum				
a)	Labour	day	0.48	407.00	195.36
	Mate	day	2.00	407.00	814.00
	Mazdoor (Skilled)	day	10.00	321.00	3210.00
	Mazdoor (Unskilled)				
b)	Machinery	hour	6.00	630.00	3780.00
	Tractor with Trolley	hour	30.00	883.00	26490.00
	8-10 Ton Smooth Wheeler Roller	hour	12.00	630.00	7560.00
	Tractor with Trolley 25 cum per hour				
c)	Material				
	Well graded granular sub-base material including GST, Labour Cess and				
	Seignorage Fee with Carriage	cum	383.00	1200.00	459600.00
					501649.36
	Cost of GSB for 300 cum	CUM			1,672.16

Sl. No.	MOR D Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount (In Rs)
CD		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 contingenced etc		6 Min		
		Total				
		a) Labour				
		Mate	day	0.03	407	12 210
		Mazoor for loading and unloading	day	0.72	268	192 960
		b) Machinery				
		Tractor 3.60 tonne capacity	hour	0.1	630	63 000
		Front end loader 1cum bucket capacity @25 cum/hour	hour	0.083	1543	128 069
		c) Overhead charges @ 0.06 on (a+b)				23 774
		d) contractor profit @ 0.0on (a+b+c)				0 000
		Cost for 2.25 cum= (a+b+c+d)				420 013
		Rate per cum= (a+b+c+d)/2.25				186 673
	Note	Unloading will be done manually				
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	hour	0.667	630 00	420 210
		Time taken for onward haulage with load	hour	0.4	630 00	252 000
		Time taken for empty return trip.				672 210
		Total				40 333
		b) Add overhead charges @0.06				0 000
		c) Add contractor profit @0.0				7 12 543
		Cost for 36 t.km = a+b+c				19 793
		Rate per t.km = (a+b+c)/36				
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	hour	0 833	630 00	524 790
		Time taken for onward haulage with load	hour	0.5	630 00	315 000
		Time taken for empty return trip				839 790
		Total				50 387
		b) Add overhead charges @0.06				0 000
		c) Add contractor profit @0.0				890 177
		Cost for 36 t.km = a+b+c				24 727
		Rate per t.km = (a+b+c)/36				