

Inspection Report For Flood Damage Work

Date :- 21.11.2021

1. Name of PIUs :- Er Bijay Kumar.
2. Name of Block/Road :- Rahui/Const of R.C.C Bridge on Panchane River Noar village

A. For Road

Dihra in Baganbigha Rahui Road

1. Damage Location/Chainage :- 480 To 550 utr.
2. Damage Length :- 34.50 utr
3. Nature of Damage :- Crust and f/ank.
4. Details of Restoration Works :-
 - i. Material being used in Restoration Works:- Brick Bats and R.S.B
 - ii. Equipments/ Tools being used in Restoration Works:- J.C.B, Roller and Tractor
 - iii. Procedure taken up in Restoration Works:- Departmental
 - iv. Restored Length:- 34.50 utr.

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 Work:-
 - ii. Equipments/ Tools being used in Restoration Works:-
 - iii. Procedure taken up in Restoration Works:-
 - iv. Restored Length:-

NA.

C. Requirement Of New CD/Bridge

- i. Name of Road:-
- ii. Location Chainage:-
- iii. Type of CD Work/Length Required

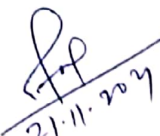
Upload one photograph of damage portion if available

Attach minium two photograph (during restoration & after restoration) photographs

Should be Geotags and at least one photo be captured in selfie mode

work is satisfactory.


21.11.21
JE
Signature of JE/AE/EE


21.11.2021
Signature of verifying officer



ग्रामीण कार्य विभाग

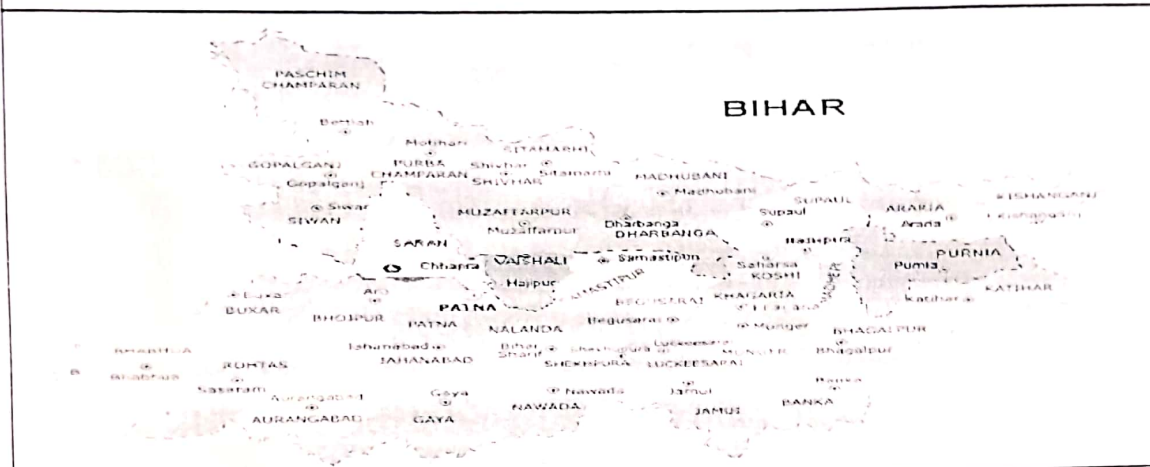
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Construction of RCC Bridge of size { 8x5.0m(4 cell)} on Panchane river near village Dihra in Bhaganbigha Rahui Road in Nalanda District.



Name of the Road :-

Construction of RCC Bridge of size { 8x5.0m(4 cell)} on Panchane river near village Dihra in Bhaganbigha Rahui Road

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Rahui	
TOTAL COST OF CONSTRUCTION	:	4.185	Lac
TOTAL COST OF PROJECT	:	4.185	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

पथ का नाम :- भागन बिगहा रहुई पथ में डीहरा के निकट
पंचाने नदी पर उच्चस्तरीय पुल एवं पहुंच पथ
प्राक्कलित राशि :- 4.863 लाख
4.185

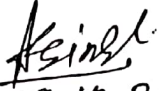
प्रतिवेदन 4.185

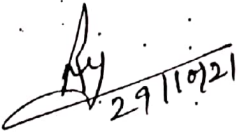
प्रस्तुत प्राक्कलन जिसकी प्राक्कलित राशि 4.863 लाख है ग्रामीण कार्य विभाग, कार्य प्रमंडल, बिहारशरीफ अन्तर्गत रहुई प्रखंड में वर्ष-2021 में आयी बाढ़ के कारण क्षतिग्रस्त पथ के मरम्मत हेतु तैयार किया गया है।

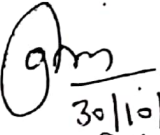
उपर्युक्त पुल एवं पथ का निर्माण FDR योजनान्तर्गत किया गया है। वर्ष-2021 में पंचाने नदी में आई बाढ़ के कारण पथ के उपर से पानी का बहाव शुरू हो गया एवं पानी बहाव के कारण मिट्टी का कटाव हुआ एवं पथ 34.5 मीटर लंबाई में कटाव हो गया फलतः आवागमन बाधित हो गया एवं ग्रामीणों का अन्य जगह से संपर्क टुट गया।

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 दुलाई 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।


29.10.21
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 :

Construction of RCC Bridge of size { 8x5.0m(4 cell) } on
Panchane river near village Dihra in Bhaganbigha Rahui Road
NALANDA
Rahui
Biharsharif

DISTRICT

BLOCK

DIVISION

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	407255.00 475131.000
2	GSB	11203.500
	Total	406334.500
	TOTAL COST IN LACS =	4.185 / 4.863
	TOTAL COST OF PROJECT IN LACS =	4.185 / 4.863

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Total = 4.185 La
gms
30/10/21
EE
RWD

Sanctioned

Technically approved for Rs. 4,18,500.00
(Rupees Four Lacs Eighteen Thousand
Five Hundred only)
Condition and direction laid down in attached
technical notes with DPR is to be followed Strictly

Aruna
9/12/2021
S. E.
RWD

Work Circle Nalanda

9/06/12/2021

Estimate for Motorable of Road from Construction of RCC Bridge of size { 8x5.0m(4 cell) } on Panchane river near village Dihra in Bhaganbigha Rahui Road in Nalanda District.

Name of Road		Construction of RCC Bridge of size { 8x5.0m(4 cell) } on Panchane river near village Dihra in Bhaganbigha Rahui Road									
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 with carriage at site including labour cess , GST and seignorance fee (excluding over head and CP)									
			cum					202.152 235.844	1,168.20	236154.40 275513.00	
2		Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					202.152 235.844	506.14	102317.12 119370.00	
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					214.281 249.995	321.00	68784.10 80248.00	
										475131.00	
		Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS								407255.40	
		Supplying GSB with carriage at site including labour cess , GST and seignorance fee (excluding over head and CP)									
		Qty of GSB from Measurement Sheet						6.700	1,672.16	11,203.50	
										11,203.50	
										486334.50	
										418458.50	

JE 29.10.21

AE 29/10/21

30/10/21

RWD

RWD

Page 3

RWD

Name of Road Construction of RCC Bridge of size { 8x5.0m(4 cell)} on Panchane river near village D
 Block Rahur
 District NALANDA

Calculation of GSB

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	17.00	x	3.50	Avg x	0.100	Avg =	5.950
2	5.00	x	2.00	Avg x	0.075	Avg =	0.750
							<u>6.700</u>

Asin
 29.10.21
 JE

By
 29/10/21
 AB

Name of Construction of RCC Bridge of size { 8x5.0m(4 cell) } on Panchane river near village
 Road Dihra in Bhaganbigaha Rahui Road
 Block Rahui
 District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	$\frac{17.5+17.0}{2}$	x	$\frac{2.4+4.50}{2}$	x	$\frac{2.20+3.50+2.50}{3}$	=	162.668
2	$\frac{4.0+4.0}{2}$	x	$\frac{1.70+3.0}{2}$	x	$\frac{2.0+3.0+2.4}{3}$	=	23.187
3	$\frac{3.0+3.0}{2}$	x	$\frac{1.5+2.3}{2}$	x	$\frac{1.60+2.0+1.50}{3}$	=	9.690
4	$\frac{10.0+9.5}{2}$	x	$\frac{1.5+2.50}{2}$	x	$\frac{2.0+2.5+1.70}{3}$	=	40.300
							<u>235.844</u>

Net qty after deduction of u/cr'ds $\frac{12}{14} \times 235.844 = 202.152 \text{ m}^3$

As per
 29.10.21
 J. E

By
 29/10/21
 AB

Analysis for Carriage by Road (By Tractor)

Name of Road:- Construction of RCC Bridge of size { 8x5.0m(4 cell) } on Panchane river near village Dihra in Bhaganbigha Rahui Road

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
				Pucka / Surface						Katcha								
				3.60 2.25	x 19.79	x	7.00 Km	=	Rs 221.68	3.60 2.25	x	24.73	x	1.00 Km	=			
1	Brick bat	Cum	Local												186.67	0.00	Rs 447.91	

Carriage Including GST and Labour 506.14

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29/10/21
AE
RWD

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RWD

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29.10.21
JE
RWD

Analysis of Rates (FORMAT F8)

		PAVEMENT CRUST LAYERS			
4.2	402	For Grading II Material (Type B)			
		Construction of Gravel/Soil-aggregate base by providing well graded material, spreading in uniform layers with motor on 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			
		Mate	day	0.48	407.00
		Mazdoor (Skilled)	day	2.00	407.00
		Mazdoor (Unskilled)	day	10.00	321.00
	b)	Machinery			
		Tractor with Trolley	hour	6.00	630.00
		8-10 Ton Smooth Wheeler Roller	hour	30.00	883.00
		Tractor with Trolley 25 cum per hour	hour	12.00	630.00
		Water tanker 6 kl capacity	hour	5.00	0.00
	c)	Material			
		Well graded granular sub-base material including GST, Labour Cess and Seignorage Fee with Carriage	cum	383.00	1200.00
		Cost of GSB for 300 cum			459600.00
			CUM		501649.36
					1,672.16

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	day	0.03	407	12 210
		Mate	day	0.72	268	192 960
		Mazoor for loading and unloading				
		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)				0 000
		d) contractor profit @ 0.00n (a+b+c)				420 013
		Cost for 2.25 cum= (a+b+c+d)				186 673
		Rate per cum= (a+b+c+d)/2.25				
	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	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				712 543
		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				