

Inspection Report For Flood Damage Work

Date :- 21.11.2021

1. Name of PIUs :- Er Bijay Kumar.

2. Name of Block/Road :- Rahui/ NH-31 To Rahui-Bazar.

A. For Road

1. Damage Location/Chainage :- 3.60 KM to 4.60 KM.

2. Damage Length :- 58.750 Mtr.

3. Nature of Damage :- Crust on 2 flank.

4. Details of Restoration Works :-

i. Material being used in Restoration Works:- Brick Bats and G.S.B, Sand Bag

ii. Equipments/ Tools being used in Restoration Works:- JCB, Roller and Tractor.

iii. Procedure taken up in Restoration Works:- Departmental

iv. Restored Length:- 58.750 mtr.

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:-

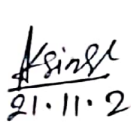
iii. Type of CD Work/Length Required

Upload one photograph of damage portion if available

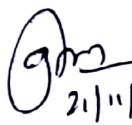
Attach minimum two photograph (during restoration & after restoration) photographs

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


21/11/21

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 NH-31 to Rahui Bazar
in Nalanda District.



Name of the Road :-

NH-31 to Rahui Bazar

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Hind Rahui	
TOTAL COST OF CONSTRUCTION	:	7.575	Lac
TOTAL COST OF PROJECT	:	7.575	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

पथ का नाम :- एन0एच0-31 से रहुई बाजार

प्राक्कलित राशि :- 7.575 लाख

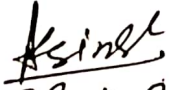
प्रतिवेदन

प्रस्तुत प्राक्कलन जिसकी प्राक्कलित राशि 7.575 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 नाबार्ड योजनान्तर्गत किया गया है। वर्ष-2021 में पंचाने नदी में आई बाढ़ के कारण पथ के ऊपर से पानी का बहाव शुरू हो गया एवं पानी बहाव के कारण मिट्टी का कटाव हुआ एवं पथ 58.75 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 आवागमन को चालू किया गया। पूर्ण रूप से कटे हुए भाग में ब्रिक बैट GSB एवं Sand Bag द्वारा पथ मरम्मत किया गया। प्रस्तुत प्राक्कलन में कराए गए कार्य में ब्रिक बैट GSB एवं Sand Bag 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 : NII-31 to Rahui Bazar

DISTRICT NALANDA
BLOCK Bind
DIVISION Biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	692915.000
5	GSB & Sand Bag	64559.069
	Total	757474.069
	TOTAL COST IN LACS =	7.575
	TOTAL COST OF PROJECT IN LACS =	7.575

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Technically ^{Sanctioned} approved for Rs. 7,57,500.00
(Rupees Seven Lacs Fifty Seven
Thousand Five Hundred Only)
Condition and direction laid down in attached
technical notes with DPR is be followed Strictly

Alkumar
9/12/2021
S. E.
RWD

Work Circle Nalanda

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06/12/2021

Access to, available on Road from NH-31 to Rahui Bazar in Nalanda District,

Name of Road NH-31 to Rahui Bazar										
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 seigniorance fee (excluding over head and CP)									
		cum					343.947	1,168.20		4,01,799.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					343.947	506.1383		1,74,085.00
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					364.584	321.00		1,17,031.00
										6,92,915.00
	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)									
		Cum.					9.90	1,672.16		16,554.43
5	Supplying Empty Cement Bag at site including labour cess , GST and	No					1518.00	4.48		6,800.64

Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
6	Supplying Sand with Carriage at site including labour cess, GST and seignorance fee (excluding over head and CP)	Cum					51.633	156.030	8,056.00
7	Supplying unskilled labour for Sand Including labour cess & GST (excluding over head and CP)	No					103.265	321.00	33,148.00
								C) SUB TOTAL OF CRUST =	64,559.07
								TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F) =	7,57,474.07
	<i>Rs. in hand</i> 29.10.21							<i>JE</i> 30/10/21	
								<i>JE</i> 30/10/21	
								<i>JE</i> 30/10/21	

Name of
Road NH-31 to Rahui Bazar
Block Bind
District NALANDA

Calculation of GSB

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	15.00	x	3.40	x	0.150	=	7.650
1	10.00	x	1.50	x	0.150	=	2.250
							9.900

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Name of NII-31 to Rahui Bazar
Road
Block Bind
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	$\frac{8.50+8.00}{2}$	x	$\frac{4.00+6.50}{2}$	x	$\frac{1.20+2.20+1.00}{3}$	=	63.525
2	$\frac{2.0+1.50}{2}$	x	$\frac{1.10+1.50}{2}$	x	$\frac{0.70+1.00+.90}{3}$	=	1.972
3	14.50	x	$\frac{2.0+2.50}{2}$	x	$\frac{1.00+1.50+1.20}{3}$	=	60.803
4	10.00	x	$\frac{0.90+1.20}{2}$	x	$\frac{0.80+1.30+1.10}{3}$	=	11.200
5	$\frac{1.0+1.30+2.0}{3}$	x	$\frac{4.20+4.50}{2}$	x	$\frac{0.50+0.80+1.00}{3}$	=	4.780
6	$\frac{1.50+4.00}{2}$	x	$\frac{4.30+4.50}{2}$	x	$\frac{0.40+0.70+1.00}{3}$	=	8.470
7	$\frac{1.50+1.20}{2}$	x	$\frac{0.80+1.00}{2}$	x	$\frac{0.30+0.70}{2}$	=	0.608
8	$\frac{11.50+10.50+10.00}{3}$	x	$\frac{1.70+3.75}{2}$	x	7.450	=	216.547
9	$\frac{4.00+1.00}{2}$	x	$\frac{1.0+0.60}{2}$	x	$\frac{0.80+1.0}{2}$	=	1.800
10	$\frac{2.50+2.75}{2}$	x	$\frac{0.50+0.70+0.40}{3}$	x	$\frac{0.60+0.40+0.50}{3}$	=	0.700
							370.404

343.947

Net Quantity After Deduction of Voids @ 12/14*370.404

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Analysis for Carriage by Road (By Tractor)

Name of Road:- NH-31 to Rahui Bazar
District:- NALANDA

Block :- Bind

District:- NALANDA																			
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									
				3.60	x	19.79	x	7.00 Km	=	Rs 221.68	3.60	x	24.73	x	1.00 Km				=
1	Brick bat	Cum	Local	2.25													186.67	0.00	Rs. 447.91

Signature
29.10.21

JE
RWD

Carriage Including GST and Labour Cess
For Brick Bats

Signature
29.10.21

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Analysis of Rates (FORMAT F8)

			PAVEMENT CRUST LAYERS				
1	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	195.36
			Mazdoor (Skilled)	day	2.00	407.00	814.00
			Mazdoor (Unskilled)	day	10.00	321.00	3210.00
		b)	Machinery				
			Tractor with Trolley	hour	6.00	630.00	3780.00
			8-10 Ton Smooth Wheeler Roller	hour	30.00	883.00	26490.00
			Tractor with Trolley 25 cum per hour	hour	12.00	630.00	7560.00
		c)	Material				
			Well graded granular sub-base material including GST, Labour Cess and Seignorage Fee with Carriage	cum	383.00	1200.00	459600.00
			Cost of GSB for 300 cum				501649.36
				CUM			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				
		Mate	day	0.03	407	12 210
		Mazdoor 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 @ 0.00n (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				
1.4 RCD		Cost of Haulage Excluding Loading and Unloading				
		Haulage of material by Tractor excluding cost of loading, unloading and stacking				
		Unit= 1 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	630.00	420 210
		Time taken for empty return trip	hour	0.4	630.00	252 000
		Total				672 210
		b) Add overhead charges @0.06				40 333
		c) Add contractor profit @0.0				0 000
		cost for 36 t.km = a+b+c				712 543
		Rate per t.km = (a+b+c)/36				19 793
	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	630.00	524 790
		Time taken for empty return trip	hour	0.5	630.00	315 000
		Total				839 790
		b) Add overhead charges @0.06				50 387
		c) Add contractor profit @0.0				0 000
		Cost for 36 t.km = a+b+c				890 177
		Rate per t.km = (a+b+c)/36				24 727