

Inspection Report For Flood Damage Work

Date :- 21/11/2021

1. Name of PIUs :- Er. Bijay Kumar

2. Name of Block/Road :- Rahui / NH31 To Wena Murgiyachak

A. For Road

1. Damage Location/Chainage :- 0.900 Km to 3.350 Km

2. Damage Length :- 0.903 Km

3. Nature of Damage :- crust Damaged due to regular rain

4. Details of Restoration Works :-

i. Material being used in Restoration Works :- GSB and Brick Bat

ii. Equipments/ Tools being used in Restoration Works :- SCB, Roller and tractor

iii. Procedure taken up in Restoration Works :- Departmental

iv. Restored Length :- 0.903 Km

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 :-

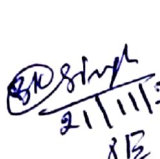
iii. Type of CD Work/Length Required

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

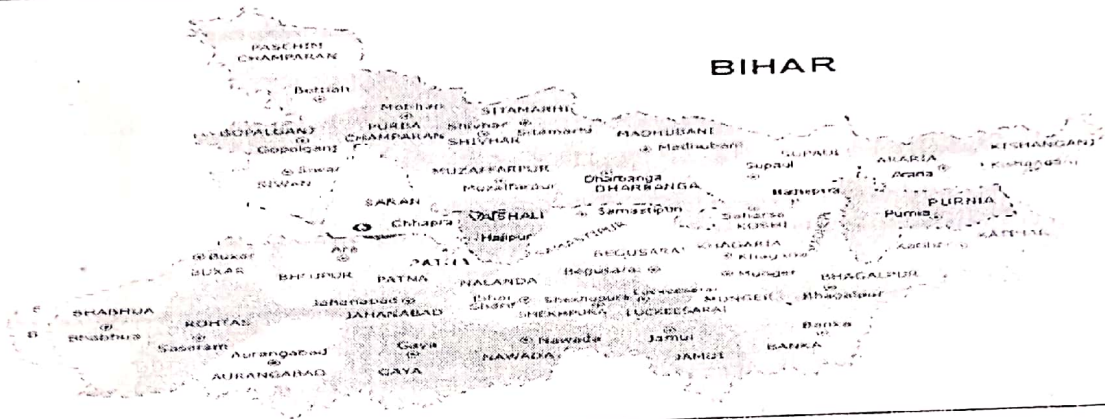
Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from NH-31 To Wena Murgiyachak in Nalanda District.



Name of the Road :-

NH-31 To Wena Murgiyachak

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Rahui	
TOTAL COST OF CONSTRUCTION	:	616T 6.135	Lac
TOTAL COST OF PROJECT	:	616T 6.135	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

पथ का नाम :- एन0एच0-31 बेना-मुर्गियाचक
प्राक्कलित राशि :- 6.161 लाख
6.135

प्रतिवेदन

प्रस्तुत प्राक्कलन जिसकी प्राक्कलित राशि 6.161 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 FDR योजनान्तर्गत किया गया है। वर्ष-2021 में अतिवृष्टि के कारण RCC पुलिया का Return Wall एवं पथ का क्रष्ट क्षतिग्रस्त हो गया। फलतः आवागमन बाधित हो गया एवं ग्रामीणों का अन्य जगह से संपर्क टुट गया।

विभागीय निर्देशानुसार क्षतिग्रस्त पथ में GSB का एक परत देकर एवं Return Wall के निकट ब्रिक बैट देकर आवागमन को चालू 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 अनूसूचित दर पर तैयार किया गया है।

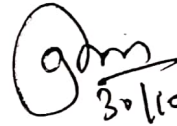
इस योजना की राशि FDR (3054) में भारित होगा। यथाशीघ्र प्राक्कलन की स्वीकृति अपेक्षित है।


29/10/21

कनीय अभियंता,
कार्य प्रशाखा, रहुई


29/10/21

सहायक अभियंता
कार्य अवर प्रमंडल, रहुई


30/10/21

कार्यपालक अभियंता,
कार्य प्रमंडल, बिहारशरीफ

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : NH-31 To Wena Murgiyachak

DISTRICT NALANDA
BLOCK Rahui
DIVISION Biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	21531.14
5	GSB	24175.000
		591937.884
	Total	616112.884
	TOTAL COST IN LACS =	6.135
	TOTAL COST OF PROJECT IN LACS =	6.135

20731=00
613468.88
612668=00

29/10/21

JE
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10701.6127
29/10/21

AE
RWD

30/10/21

EE
RWD

Sanctioned
Technically approved for Rs. 6,12,668.00
(Rupees Six Lacs Twelve Thousand
Seven Hundred only)
Condition and direction laid down in attached
technical notes with DPR is be followed Strictly

9/12/2021

S. E.

RWD

Work Circle Nalanda

26/12/2021

Sl. No.	Name of Road	NH-31 To Wena Murgiyachak
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Scanned with CamScanner

Name of Road NH-31 To Wena Murgiyachak
Block Rahui
District NALANDA

Calculation of GSB

Sl.No	Lenth (m)	Width(m)	Thicknes (m)	Qty. (Cum)
1	5.50	3.75	0.125	2.578
2	6.00	1.60	0.100	0.960
3	3.30	0.40	0.075	0.099
4	1.80	1.00	0.125	0.225
5	9.00	1.40	0.125	1.575
6	2.30	1.50	0.200	0.690
7	13.00	2.35	0.100	3.055
8	15.00	3.75	0.175	9.844
9	20.70	3.75	0.100	7.763
10	13.00	4.20	0.100	5.460
11	4.50	1.50	0.125	0.844
12	64.00	3.75	0.150	36.000
13	9.00	1.10	0.150	1.485
14	22.00	3.75	0.200	16.500
15	1.00	1.00	0.100	0.100
16	13.00	2.00	0.150	3.900
17	5.00	0.90	0.100	0.450
18	3.00	0.35	0.175	0.184
19	10.50	2.00	0.100	2.100
20	1.00	1.00	0.075	0.075
21	9.00	3.75	0.125	4.219
22	1.00	1.20	0.100	0.120
23	3.00	3.75	0.125	1.406
24	4.20	3.75	0.150	2.363
25	1.00	0.90	0.075	0.068
26	2.20	1.00	0.100	0.220
27	2.30	1.00	0.100	0.230
28	11.50	3.75	0.150	6.469
29	4.00	3.75	0.150	2.250
30	0.70	0.70	0.100	0.049
31	1.00	0.70	0.100	0.070
32	2.10	2.50	0.100	0.525
33	7.50	1.40	0.100	1.050
34	2.50	3.75	0.150	1.406
35	4.00	3.75	0.150	2.250
36	5.00	1.60	0.150	1.200

Handwritten signatures and dates:
 29/10/21
 27/10/21
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37	2.00	1.00	0.100	0.200
38	11.00	3.00	0.150	4.950
39	2.00	2.00	0.100	0.400
40	8.00	2.00	0.150	2.400
41	2.00	1.00	0.100	0.200
42	7.20	1.90	0.125	1.710
43	2.00	0.90	0.100	0.180
44	9.00	3.00	0.125	3.375
45	8.10	3.00	0.125	3.038
46	6.60	1.90	0.150	1.881
47	1.00	1.00	0.100	0.100
48	9.90	3.00	0.150	4.455
49	13.80	3.75	0.125	6.469
50	6.00	1.60	0.150	1.440
51	17.80	2.90	0.125	6.453
52	3.00	0.80	0.100	0.240
53	6.30	3.75	0.150	3.544
54	5.10	1.00	0.100	0.510
55	12.50	3.75	0.200	9.375
56	4.80	1.20	0.150	0.864
57	6.00	3.75	0.200	4.500
58	1.20	1.40	0.100	0.168
59	5.00	1.50	0.125	0.938
60	17.10	3.75	0.150	9.619
61	2.00	2.00	0.100	0.400
62	15.50	3.00	0.150	6.975
63	11.50	2.00	0.125	2.875
64	6.60	3.50	0.150	3.465
65	6.80	1.00	0.100	0.680
66	6.70	0.85	0.075	0.427
67	0.50	0.50	0.075	0.019
68	0.50	0.50	0.075	0.019
69	9.30	0.60	0.075	0.419
70	4.70	3.00	0.125	1.763
71	4.80	1.30	0.125	0.780
72	4.70	0.60	0.100	0.282
73	5.80	0.75	0.100	0.435
74	2.40	1.20	0.100	0.288
75	3.00	0.90	0.100	0.270
76	3.10	1.00	0.100	0.310
77	3.00	3.00	0.150	1.350
78	9.70	3.75	0.150	5.456
79	2.40	0.50	0.075	0.090
80	4.60	1.80	0.150	1.242

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81	3.40	2.00	0.100	0.680
82	4.20	1.80	0.125	0.945
83	5.50	3.75	0.150	3.094
84	4.00	1.20	0.100	0.480
85	2.90	1.00	0.100	0.290
86	3.80	3.20	0.150	1.824
87	6.80	2.70	0.175	3.213
88	2.75	0.40	0.100	0.110
89	3.50	0.50	0.100	0.175
90	3.60	0.70	0.100	0.252
91	2.00	3.75	0.200	1.500
92	1.50	1.40	0.200	0.420
93	6.30	3.00	0.175	3.308
94	2.90	0.95	0.100	0.276
95	16.80	2.00	0.150	5.040
96	5.50	3.00	0.150	2.475
97	12.00	2.00	0.175	4.200
98	2.20	1.40	0.100	0.308
99	8.60	3.00	0.175	4.515
100	2.80	2.50	0.150	1.050
101	5.00	3.30	0.175	2.888
102	1.50	0.50	0.100	0.075
103	14.50	3.75	0.150	8.156
104	6.00	1.20	0.125	0.900
105	3.30	1.50	0.150	0.743
106	2.00	2.00	0.125	0.500
107	0.50	0.50	0.075	0.019
108	3.00	1.80	0.200	1.080
109	3.50	3.75	0.150	1.969
110	3.30	2.50	0.150	1.238
111	15.60	1.50	0.150	3.510
112	1.50	3.75	0.150	0.844
113	4.40	1.50	0.150	0.990
114	8.60	3.75	0.175	5.644
115	0.60	0.40	0.075	0.018
116	12.00	3.30	0.200	7.920
117	2.20	0.90	0.100	0.198
118	2.70	1.20	0.125	0.405
119	4.60	1.00	0.125	0.575
120	7.30	3.75	0.200	5.475
121	9.80	1.50	0.150	2.205
122	1.30	1.20	0.100	0.156
123	8.30	2.70	0.150	3.362
124	8.00	3.75	0.200	6.000

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125	4.00	3.75	0.200	3.000
126	8.50	1.20	0.150	1.530
127	6.10	2.10	0.125	1.601
128	7.50	2.50	0.150	2.813
129	5.60	2.75	0.125	1.925
130	2.00	2.00	0.100	0.400
131	8.00	2.00	0.200	3.200
132	7.90	2.50	0.200	3.950
133	4.40	1.90	0.125	1.045
134	1.90	1.00	0.100	0.190
135	18.50	3.75	0.200	13.875
136	12.10	2.40	0.150	4.356
137	11.60	1.50	0.125	2.175
138	2.00	1.90	0.125	0.475
139	4.30	1.00	0.125	0.538
140	5.00	2.00	0.100	1.000
141	9.50	4.35	0.150	6.199
142	5.30	5.50	0.150	4.373
Total				353.995

By 29/10/21
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Name of
Road NH-31 To Wena Murgiyachak
Block Rahui
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	6.00	$\frac{0.5+1.50}{2}$	2.000	12.000
Net qty after deduction of voids				12.000

~~29/10/21~~ 29/11/21
SR AB

$$\frac{12}{14} \times 12.000 = 10.29 \text{ m}^3$$

Analysis for Carriage by Road (By Tractor)

Name of Road:-- NH-31 To Wena Murgiyachak
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	19.79	x	7.00 Km	=	Rs 221.68	3.60	x	24.73	x	1.00 Km	=	Rs 39.56	
				2.25	x		x			2.25	x		x			Rs 47.91		

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Carriage Including GST and Labour Cess
For Brick Bats

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RWD

Analysis of Rates (FORMAT F8)

4.2	402	PAVEMENT CRUST LAYERS 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				
		Male	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 1 cum bucket capacity @25 cum/hour	hour	0.083	1543	128 069
		c) Overhead charges @ 0.06 on (a+b)				23 774
		d) contractor profit @ 0.0 on (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= 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	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