

Inspection Report For Flood Damage Work

Date :- 21.11.2021

1. Name of PIUs :- Er Bijay Kumar.

2. Name of Block/Road :- Rahw/ Tol To Sikandarpur.

A. For Road

1. Damage Location/Chainage :- 0.10 to

2. Damage Length :- 35.20 mtr.

3. Nature of Damage :- crust and flank.

4. Details of Restoration Works :-

i. Material being used in Restoration Works:- Brick bats and G.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:- 35.20 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.

Asin
21.11.21
Signature of JE/AE/EE

Asin
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 L053-T01 to
Sikandarpur (VR22) in Nalanda District.



Name of the Road :-

L053-T01 to Sikandarpur (VR22)

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Rahui	
TOTAL COST OF CONSTRUCTION	:	1.06 216	Lac
TOTAL COST OF PROJECT	:	1.060 1216	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

पथ का नाम :- एल0-53-टी01 से सिकन्दरपुर

प्राक्कलित राशि :- 1.216 लाख

1.060

प्रतिवेदन

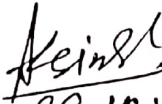
1.060

प्रस्तुत प्राक्कलन जिसकी प्राक्कलित राशि 1.216 लाख है ग्रामीण कार्य विभाग, कार्य प्रमंडल, बिहारशरीफ अन्तर्गत रहई प्रखंड में वर्ष-2021 में आयी बाढ़ के कारण क्षतिग्रस्त पथ के मरम्मत हेतु तैयार किया गया है।

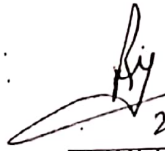
उपर्युक्त पथ का निर्माण PMGSY योजनान्तर्गत किया गया है। वर्ष-2021 में पंचाने नदी में आई बाढ़ के कारण पथ के उपर से पानी का बहाव शुरू हो गया एवं पानी बहाव के कारण मिट्टी का कटाव हुआ एवं पथ 35.2 मीटर लंबाई में कटाव हो गया फलतः आवागमन बाधित हो गया एवं ग्रामीणों का अन्य जगह से संपर्क टुट गया।

विभागीय निर्देशानुसार कटे हुए भाग को ईट के टुकड़ों से भरने के उपरांत आवागमन को चालू किया गया। पूर्ण रूप से कटे हुए भाग में ब्रिक बैट एवं GSB 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 अनूसूचित दर पर तैयार किया गया है।

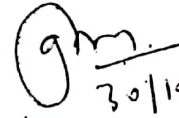
इस योजना की राशि FDR (3054) में भारित होगा। यथाशीघ्र प्राक्कलन की स्वीकृति अपेक्षित है।


28.10.21

कनीय अभियंता,
कार्य प्रशाखा, रहई


29/10/21

सहायक अभियंता
कार्य अवर प्रमंडल, रहई


30/10/21

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बिहारशरीफ

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : L053-T01 to Sikandarpur (VR22)

DISTRICT NALANDA
BLOCK Rahui
DIVISION Biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	1,11,705.50
5	GSB	12687.548
	Total	421588.548
	TOTAL COST IN LACS =	1.060 1.216
	TOTAL COST OF PROJECT IN LACS =	1.060 1.216

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Total = 1,24,392

Sanctioned.
Technically approved for Rs. 1,24,392.00
(Rupees One Lakh Twenty Four
Thousand Four Hundred only.)
Condition and direction laid down in attached
technical notes with DPR is to be followed Strictly

Atman
9/12/2021

S.E.
RWD

Work Circle Nalanda

9
06/12/2021

Estimate for Motorable of Road from L053-T01 to Sikandarpur (VR22) in Nalanda District.

Name of Road		L053-T01 to Sikandarpur (VR22)									
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					54.056	1,168.20	63,114.00		
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					46.934	506.138	23,757.10		
							54.056		27,360.00		
							55.448		28,064.10		
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					47.114	321.00	15,266.10		
							57.299		18,393.00		
							58.775		18,867.10		
	Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS										
	AC) SUB TOTAL OF CRUST =								4,08,901.00		
4	Supplying GSB with carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)										
	Qty of GSB from Measurement Sheet	Cum					7.588	1,672.16	12,687.55		
	B) SUB TOTAL OF CRUST =								12,687.55		
	TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=								4,21,588.55		
									10,80,518.55		
									124,392.55		

AE 29/10/21

JE 29.10.21

EE 11/12/21

RWD

RWD

RWD

Name of Road L053-T01 to Sikandarpur (VR22)
 Block Rahui
 District NALANDA

Calculation of GSB

Sl.No	Lenth (m)		Width(m)	Thickness (m)		Qty. (Cum)
1	6.50	x	$\frac{8.0+6.0+4.20}{3}$	x 0.100	Avg =	2.925
2	5.20	x	$\frac{6.50+5.00}{2}$	x 0.100	Avg =	2.990
3	15.00	x	0.90	x 0.075	Avg =	1.013
4	3.00	x	1.20	x 0.075	Avg =	0.270
5	4.00	x	3.00	x 0.025	Avg =	0.300
5	1.50	x	0.80	x 0.075	Avg =	0.090
						<u>7.588</u>

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Name of Road L053-T01 to Sikandarpur (VR22)
 Block Rahui
 District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	4.50	x	$\frac{4.20+2.50}{2}$	x	$\frac{0.80+1.20+0.60}{3}$	=	13.065
2	$\frac{5.50+5.00}{2}$	x	$\frac{4.50+4.00}{2}$	x	$\frac{0.50+1.00}{2}$	=	16.734
3	$\frac{15+15.0}{2}$	x	$\frac{1.50+2.50}{2}$	x	$\frac{1.0+1.20}{3}$	=	33.2 22.367
4	1.50	x	1.20	x	$\frac{1.0+1.10}{2}$	=	1.890

54.056

64.689 m³

Qty after deduction of voids $\frac{12}{14} \times \frac{64.689 \text{ m}^3}{54.056} = 46.334 \text{ m}^3$
 55.448 m³

As per
 29.10.21
 T.E.

By
 29.11.21
 AB

Analysis for Carriage by Road (By Tractor)

Name of Road:- L053-T01 to Sikandarpur (VR22)

District:- NALANDA

Block :- Rahui

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
				Pucka / Surface						Katcha									
1	Brick bat	Cum	Local	3.60	19.79	X	7.00 km	=	Rs 221.68	3.60	X	24.73	X	1.00 km	=	Rs 39.56	0.00	Rs. 447.91	
				2.25					2.25										

Carriage Including GST and
Labour Cess For Brick Bats

506.1383

K Singh
JE 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 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		
			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		
			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
		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				
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	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				