

Inspection Report For Flood Damage Work

Date :- 25/11/2021

1. Name of PIUs :- En. Bijay Kumar
2. Name of Block/Road :- Bind/ Soiba Alipur Road (SH-23) to Danyapur South.

A. For Road

1. Damage Location/Chainage :- 0 to 100 Meter.
2. Damage Length :- 41.00 Meter.
3. Nature of Damage :- Flock, Crust & Breach.
4. Details of Restoration Works :-
 - i. Material being used in Restoration Works :- Bridge Bat & G.S.B.
 - ii. Equipments/ Tools being used in Restoration Works :- JCB Tractor & Rower.
 - iii. Procedure taken up in Restoration Works :- Departmental
 - iv. Restored Length :- 41.00 meter

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:-

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.

Signature of JE/AE/EE
25/11/21

Signature of verifying officer
25/11/21



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Soiba Alipur Road (SH-78) to Dariyapur South in Nalanda District.



Name of the Road :-

Soiba Alipur Road (SH-78) to Dariyapur South

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Bind	
TOTAL COST OF CONSTRUCTION	:	5.045 4.336	Lac
TOTAL COST OF PROJECT	:	5.045 4.336	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

पथ का नाम :- सोयबा अलीपुर रोड एस0एच0-78 से दरियापुर

दक्षिण

प्राक्कलित राशि :- ^{4.336}5.045 लाख

प्रतिवेदन ^{4.336}

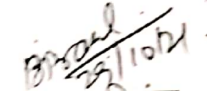
प्रस्तुत प्राक्कलन जिसकी प्राक्कलित राशि ~~5.045~~ लाख है ग्रामीण कार्य विभाग, कार्य प्रमंडल, बिहारशरीफ अन्तर्गत विन्द प्रखंड में वर्ष-2021 में आयी बाढ़ के कारण क्षतिग्रस्त पथ के मरम्मत हेतु तैयार किया गया है।

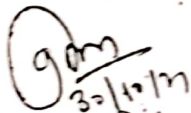
उपर्युक्त पथ का निर्माण नाबार्ड योजनान्तर्गत किया गया है। उक्त में वर्ष-2021 में जिराइन नदी में आई बाढ़ के कारण पथ के उपर से पानी का बहाव शुरू हो गया एवं पानी बहाव के कारण मिट्टी का कटाव हुआ एवं पथ 6 मीटर लंबाई में पूर्णतः कट गया फलतः आवागमन बाधित हो गया एवं ग्रामीणों का अन्य जगह से संपर्क टुट गया।

विभागीय निर्देशानुसार टुटे हुए भाग को ईंट के टुकड़ों से भरने के उपरान्त उसके उपर GSB का एक परत देकर आवागमन को चालू किया गया। प्रस्तुत प्राक्कलन में कराए गए कार्य में में ग्रिक बैंट 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 रवीकृति अपेक्षित है।


कनीय अभियंता,
कार्य प्रशाखा, विन्द


सहायक अभियंता
कार्य अवर प्रमंडल, विन्द


कार्यपालक अभियंता,
कार्य प्रमंडल, बिहारशरीफ

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Soiba Allpur Road (SH-78) to Daryapur South
 DISTRICT NALANDA
 BLOCK Bind
 DIVISION Biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LACS)
1	BRICK BATS	4,95,350
5	GSB	4,62,433.24
	Total	8,27,783.24
	TOTAL COST IN LACS =	5,045
	TOTAL COST OF PROJECT IN LACS =	5,045

(Signature)
 JE
 RWD

(Signature)
 AE
 RWD

Total = 7,33,600
(Signature)
 EE
 RWD

Sanctioned
 Technically approved for Rs. 1,33,600 = 00
 (Rupees. ~~Four~~ Lacs ~~Thirty~~ Three Thousand
 Six hundred only)
 Condition and direction laid down in attached
 technical notes with DPR is to be followed Strictly

(Signature)
 S. E.
 RWD
 Work Circle Nalanda
(Signature)
 06/12/2021

Estimate for Motorable of Road from Soiba Alipur Road (SH-78) to Dariyapur South in Nalanda District.

Name of Road Soiba Alipur Road (SH-78) to Dariyapur South

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					211.134 246.324	1,168.20	2,46,647.24 2,87,755.00
2	Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					211.134 246.324	506.138	1,06,863.24 1,24,574.00
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					261.103 323.86	321.00	71,840.20 83,814.00
								A) SUB TOTAL =	4,85,350.24
	SUB HEAD : PAVEMENT LAYERS - GSB & WBM ITEMS								
4	Supplying GSB with carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)						4.950	1,672.16	8,277.21
	Qty of GSB from Measurement Sheet							B) SUB TOTAL =	8,277.21
								TOTAL COST OF PAVEMENT IN RS. (A+B) =	5,04,526.21
									4,33,627.24

JE 20/11/24

AE 20/11/24

EE 30/11/24

RWD

RWD

RWD

Name of Road Soiba Alipur Road (SH-78) to Dariyapur South
Block Bind
District NALANDA

Calculation of GSB

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	15.00	x	3.40	x	0.075	=	3.825
2	10.00	x	1.50	x	0.075	=	1.125
							4.950

Handwritten signature
27/10/22
N

Name of Road Soiba Alipur Road (SH-78) to Dariyapur South
 Block Bind
 District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	$\frac{6.1+3.00}{2}$	x	$\frac{1.1+2.0+1.0}{3}$	x	$\frac{0.75+1.5+0.9}{3}$	=	6.529
2	$\frac{2.8+1.5}{2}$	x	$\frac{1.7+0.3}{2}$	x	$\frac{0.300+0.350}{2}$	=	0.699
3	$\frac{6.0+6.50}{2}$	x	$\frac{4.5+8.5}{2}$	x	$\frac{3.9+4.8+3.1}{3}$	=	159.792
4	$\frac{14.50}{2}$	x	$\frac{1.2+1.5}{2}$	x	$\frac{0.9+1}{2}$	=	18.596
5	$\frac{3.0+4.0}{2}$	x	$\frac{0.8+1.5}{2}$	x	$\frac{0.3+1.5}{2}$	=	3.623
6	$\frac{4.70}{2}$	x	$\frac{2.20+3.00}{2}$	x	$\frac{1.9+1.5}{2}$	=	20.774
7	$\frac{10.00}{3}$	x	$\frac{2.4+3.0+3.2}{3}$	x	$\frac{0.8+1.00+2.00}{3}$	=	36.311

Net qty after deduction of voids

246.324

CCP
29/10/24
DB

ie $\frac{12}{14} \times 246.324$

Bawal
29/10/24
pi

211.135 m

Analysis for Carriage by Road (By Tractor)

Name of Road:- Soiba Alipur Road (SH-78) to Daryapur South
District:- NALANDA

Block :- Bind

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	40 Km	=	Rs 379.56
				2.25	x		x		=		2.25	x		x		=	186.67
																	Rs 447.91

Carriage Including GST and Labour Cess For Brick & Bats

Rs. 506.14

(Signature)
TE
RWD

(Signature)
AE
RWD

(Signature)
3.10.24
EE
RWD

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	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	hour	5.00	0.00	0.00
			Water tanker 6 kl capacity				
		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

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	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				