



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Govt. of Bihar

FDR(Motorable)

Estimate for Motorable of Road from Gram Panchayat Brah to Brah Parivahan Road in Nalanda District.



Name of the Road :-

Gram Panchayat Brah to Brah Parivahan Road

DISTRICT	:	NALANDA	
DIVISION	:	Biharsharif	
BLOCK	:	Rahui	
TOTAL COST OF CONSTRUCTION	:	5.665	Lac
TOTAL COST OF PROJECT	:	<u>5.665</u>	Lac

SUBMITTED BY
RURAL WORKS DEPARTMENT
WORKS DIVISION-BIHARSHARIF

4.999 Lac

प्रतिवेदन

प्रस्तुत प्राक्कलन बाढ़/अतिवृष्टि से क्षतिग्रस्त पथ ग्राम पंचायत बराह से बराह परिवाहन पथ में मोटरेबल कार्य के लिए तैयार किया गया है, जिसकी प्राक्कलित राशि-5.665 लाख रुपये मात्र है।

प्रस्तुत प्राक्कलन अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-मु0अ0-4(मु) विविध (कार्य)-23-29/2019-4875 पटना, दिनांक-22.10.2021 के निर्देश के आलोक में तैयार किया गया है।

प्रस्तुत प्राक्कलन Nabard अन्तर्गत निर्मित पथ ग्राम पंचायत बराह से बराह परिवाहन पथ में पथांस-0.750 कि०मी० स्थानों पर Flanks में खड़ा कटाव हो जाने के कारण पथ Cures के बच्चाव के लिए Bricks Bats मेटेरियल से कार्य सम्पन्न कराया गया है।

प्राक्कलन में निविदा में स्वीकृत दर के अनुसार सभी मदों का दर बिश्लेषण उपरान्त प्राक्कलन तैयार किया गया है। जिस पर सक्षम पदाधिकारी से स्वीकृति अपेक्षित है।



कनीय अभियंता
ग्रामीण कार्य विभाग
कार्य प्रशाखा-हरनौत



सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर-प्रमण्डल, हरनौत



कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल हरनौत।

INSPECTION REPORT FOR FLOOD DAMAGE WORK

Date :

1. Name of PIUS :- R.W.D works Division Harnaut
2. Name of Block/Road :- Harnaut :- Gram pan chayat Brah to Brah parwah an Road.

A. For Road :

1. Damage Location/Change :- CH-750 M.
2. Damage Length :- 40 M.
3. Nature of Damage :- Plank Damage
4. Details of Restoration Works :- Brick bats filling, bamboo, sand bags
 - i. Material Being used in Restoration works :- Brick bat, bamboo, sand bags
 - ii. Equipment's / Tools being used in Restoration works :- Tractors, J-C-B, etc.
 - iii. Procedure taken up in restoration works :-
 - iv. Restored Length :-

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 works :-
 - ii. Equipment's / Tools being used in Restoration works :-
 - iii. Procedure taken up in restoration works :-
 - iv. Restored Length :-

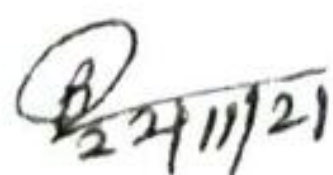
C. Requirement of New CD/Bridge :

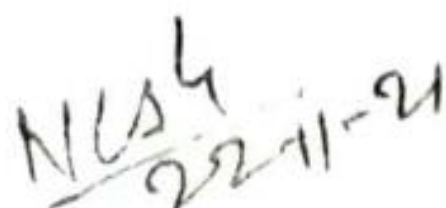
- i. Name of Road :-
- ii. Location Chainage :-
- iii. Type of CD work/Length required :-

- Upload one photograph of damaged portion if available

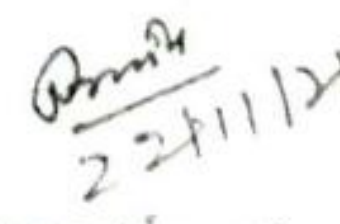
- Attach minimum two photograph (during restoration & after restoration) photographs should be Geotags and at least one photo be captured in selfie mode.

Signature of


JE


AE


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Executive Engineer
Rural Works Department
Works Division, Rajgir

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Gram Panchayat Brah to Brah Parivahan Road

DISTRICT NALANDA
BLOCK Rahui
DIVISION Biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS	466,090.00 532770.00
2	GSB & Sand Bag	33775.40
	Total	566545.40
	TOTAL COST IN LACS =	5.665
	TOTAL COST OF PROJECT IN LACS =	5.665

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sanctioned
technically approved for Rs. 4,99,900.00
(Rupees... Four... Nine... Nine
...Thousand... Nine... Hundred only.)
Condition and direction laid down
technical notes with DPR is to be followed strictly

sd—

S. E.
RWD

Work Circle Nalanda

Certified copy

Amman
14/12/2021
अधोक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल (नालन्दा)
14/12/2021

Estimate for Motorable of Road from Gram Panchayat Brah to Brah Parivahan Road in Nalanda District.

Gram Panchayat Brah to Brah Parivahan Road										
Sl. No.	Name of Road	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 at site including labour cess, GST and seigniorance fee (excluding over head and CP)								257892.00
			cum					214.71		290323.00
								250.500	1,201.12	3,00,881.00
2		Carriage for Brick bats including labour cess & GST (excluding over head and CP)	No					250.500	575.950	1,44,275.00
								214.71		123662.00
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					256.213		84540.00
								265.530	329.96	87,614.00
										466094.00
										5,14,017.00
								A) Sub Total		5,32,770.00
		Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS								
										5,14,017.00
4		Supplying Empty Cement Bag at site including labour cess, GST and	No					770.00	8.72	6,714.40

Sl. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
5	Supplying Sand with Carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)	Cum					26.190	340.940	8,929.00
6	Supplying Bamboo with Carriage at site including labour cess, GST and seigniorance fee (excluding over head and CP)	Each					50.00	16.95	848.00
3	Supplying unskilled labour for Sand bag including labour cess & GST (excluding over head and CP)	No					52.381	329.96	17,284.00
B) SUB TOTAL =									33,775.40
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F) =									5,66,545.40
JE 9/11/24 RWD NVH 24-11-24 RWD 55,11,1154 EE RWD									54,77,92.20
									4,99,869.20

Name of Road Gram Panchayat Brah to Brah Parivahan Road
Block Rahui
District NALANDA

Calculation of Brick Bats

Sl.No	Lenth (m)		Width(m)		Thickness (m)		Qty. (Cum)
1	25.00	x	$\frac{2.80+2.0}{2}$	x	$\frac{2.2+2.0}{2}$	=	126.000
2	$\frac{40.0+25.0}{2}$	x	$\frac{2.0+1.0}{2}$	x	$\frac{2.2+1.80}{2}$	=	97.500
3	9.00	x	2.000	x	1.500	=	27.000
							<u>250.500</u>

Net Qty $\frac{12}{14} \times 250.50 = 214.71 \text{ m}^3$

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Analysis for Carriage by Road(By Tractor)

Name of Road:-- Gram Panchayat Brah to Brah Parivahan 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	
				Pukka / Surface					Katcha								
1	Brick bat	Cum	Local	3.60	x	22.21	x	7.00 Km	=	Rs 248.77	3.60	x	27.75	x	1.00 Km	=	Rs 44.40
				2.25							2.25						

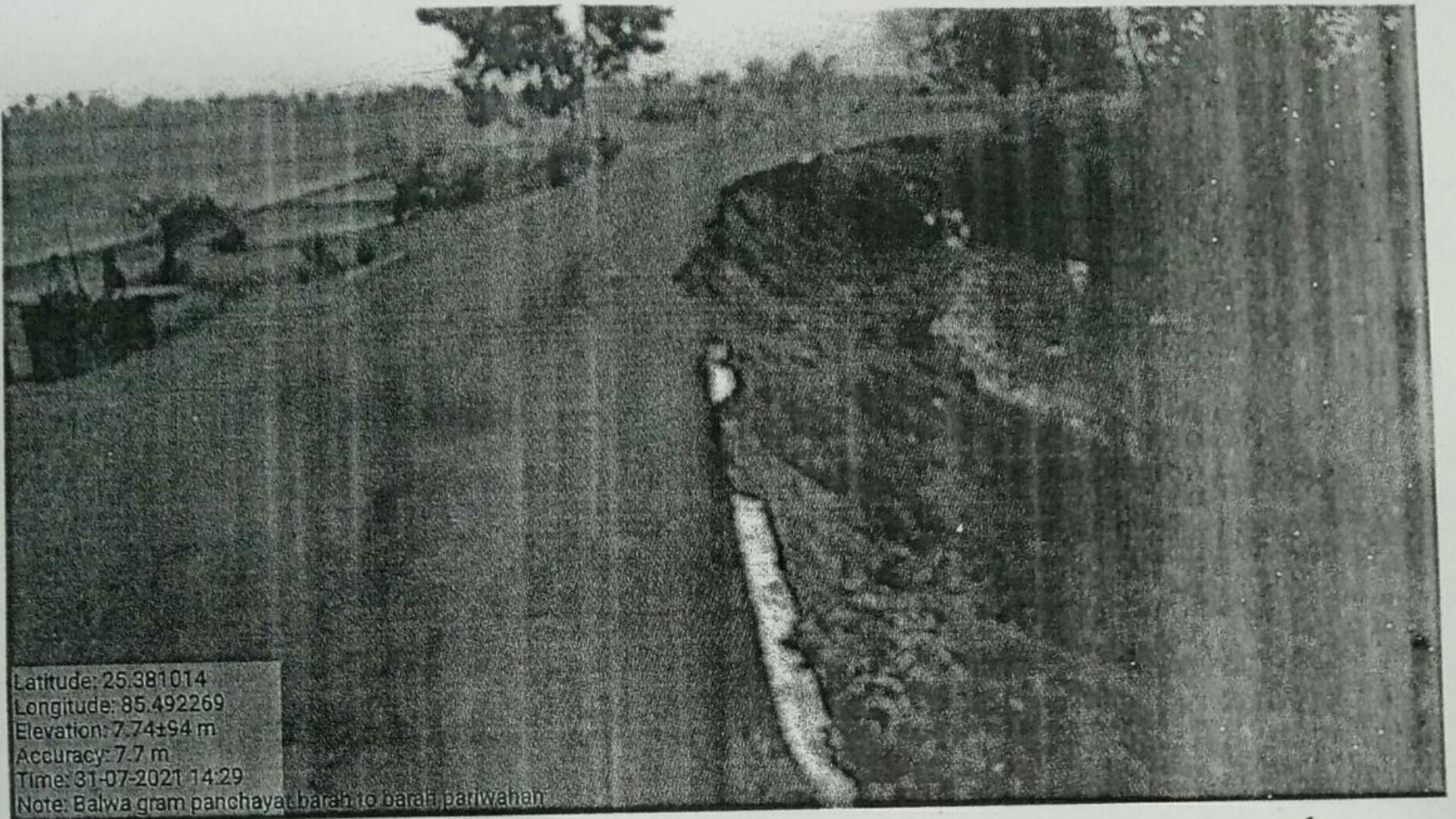
Carriage Including GST and Labour Cess
For Brick Bats

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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	418	12 540
		Mazoor for loading and unloading	day	0.72	329	236 880
		b) Machinery				
		Tractor 3.60 tonne capacity	hour	0.1	707	70 700
		Front end loader 1cum bucket capacity @25 cum/hour	hour	0.083	1680.51	139 482
		c) Overhead charges @ 0.06 on (a+b)				27 576
		d) contractor profit @ 0.0on (a+b+c)				0.000
		Cost for 2.25 cum= (a+b+c+d)				487 178
		Rate per cum= (a+b+c+d)/2.25				216 524
	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	707.00	471 569
		Time taken for empty return trip.	hour	0.4	707.00	282 800
		Total				754 369
		b) Add overhead charges @0.06				45 262
		c) Add contractor profit @0.0				0 000
		cost for 36 t km = a+b+c				799 631
		Rate per t.km = (a+b+c)/36				22 212
	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	707 00	588 931
		Time taken for empty return trip	hour	0.5	707 00	353 500
		Total				942 431
		b) Add overhead charges @0.06				56 546
		c) Add contractor profit @0.0				0 000
		Cost for 36 t.km = a+b+c				998 977
		Rate per t.km = (a+b+c)/36				27 749

Name of Road:- Gram panchayat Barah to barah parivahan Road,



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