



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT
Bihar Rural Road Development Agency (BRRDA)

FLOOD DAMAGE REPORT

YEAR (2021-2022)

DETAILED ESTIMATE FOR RESTORATION WORK ON

DISTRICT :- BHOJPUR

DIVISION :- Ara

BLOCK :- Barahara

NAME OF ROAD		:-	Detailed Estimate for Restoration Work on Sinha Sohra To Noorpur Under Barahara Block
			9.776 9.065
TOTAL COST OF RESTORATION		:-	Rs. 10.753 9.065 Lacs
TOTAL COST OF PROJECT		:-	Rs. 10.753 9.065 Lacs

SUBMITTED BY:

EXECUTIVE ENGINEER
RWD (W) DIVISION, ARA
BHOJPUR

तकनीकी प्रतिवेदन

जिला-भोजपुर (आरा)

प्रखंड- बड़हरा

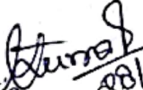
योजना का नाम- सिन्हा सोहरा से नूरपुर पथ के बाढ़ से क्षतिग्रस्त अंश-भाग के मोटरबुल कार्य।

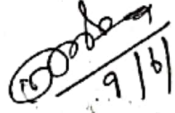
पथ की लंबाई-2.080 कि०मी०

प्राक्कलित राशि- 10.753 लाख रु०

प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया। यह पथ जोकहरी बांध (RWD पथ) से महुली घाट तक जाती है। यह पथ महुली घाट, ख्वासपुर होते हुए बिहार-यू०पी० को जोड़ने वाला मुख्य मार्ग है। गंगा नदी में आई बाढ़ के कारण इस पथ का कुछ पथांश पूरी तरह क्षतिग्रस्त हो गया। जिससे पथ में बड़े-बड़े गड्ढे हो गये। यातायात बाधित होने के कारण आपात स्थिति में Brick Bats भरकर पथ को चालू कराया गया। यह कार्य विभागीय स्तर पर कराया गया है।

प्राक्कलन में प्रयुक्त दर वर्तमान अनुसूचित दर पर तैयार किया गया है। कार्य हित में तकनीकी अनुमोदन एवं प्रशासनिक स्वीकृति अपेक्षित है। यह प्राक्कलन कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, आरा के निर्देशानुसार तैयार किया गया है।


कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, बड़हरा


9/6/2021
सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल बड़हरा


05/06/21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, आरा।

F. D. R.
YEAR (2020-2021)
GENERAL ABSTRACT OF COST

Block:--Barahara

District:--BHOJPUR

Name of Road:--

Detailed Estimate for Restoration Work on Sinha Sohra To
 Noorpur Under Barhara Block

Sl. No.	Item of Work	Amount
A		9.776 9.065
	TOTAL COST OF RESTORATION	10.753 Lacs
	Sub Total= (A)	10.753 Lacs 9.065
	Total Cost of Project (A)	10.753 Lacs

[Signature]
 08/06/21
 Junior Engineer
 RWD (w) Section,
 Barahara

[Signature]
 9/6/2021
 Asstt. Engineer
 RWD (W) Sub Division, Barahara

[Signature]
 09/06/21
 Executive Engineer
 RWD (w) Division, Ara

Verified by E.E. RWD
 DRO

[Signature]
 10/8/21
 EE, PIND

9.065 lacs (Rupees
 nine lac six thousand five
 hundred only.

9.776 lacs (Rupees
 nine lac seventy seven thousand
 six hundred only.

Certified Copy
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 R.W.D. Works Circle

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SUMMARY OF COST ESTIMATE FOR THE FDR PROJECT

NAME OF ROAD :

Detailed Estimate for Restoration Work on Sinha Sohra
To Noorpur Under Barahara Block

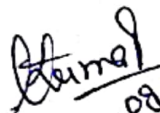
DISTRICT
BLOCK

BHOJPUR
Barahara

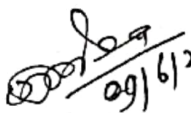
LENGTH OF ROAD (in Km)

2.080

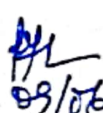
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS WORK Rs	7.892 9.386
		7.892 9.386
2	Add 12% GST on Total Amount:-	0.947 1.126
3	Add 1% Lab Cess on Total Amount:-	0.079 0.094
4	Seigniorage Fees @ 10%	0.147
5	Total Construction Cost (Incl GST, Lab Cess & SF)	9.065 10.753
	TOTAL COST OF PROJECT Rs.	9.065 10.753


08/06/21
Junior Engineer

RWD (w) Section , Barahara


09/06/21
Assistant Engineer

RWD (W) Sub Division , Barahara


09/06/21
Executive Engineer
RWD (w) Division,
Ara

Cost Estimate for Road Work

Srl. No.	MOBID Rel. No.	Description	Unit	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	RCD	Brick Bats							
		Providing and filling Brick Bats in ditches including cost of Brick Bats and labour all Complete Job as per specification and direction of E/L							
		1st KM							
			Cum	5.50	2.50	Avg	0.30	Avg	4.13
			Cum	6.00	3.05	Avg	0.30	Avg	5.49
			Cum	7.50	2.50	Avg	0.45	Avg	8.44
			Cum	6.00	2.75	Avg	0.30	Avg	4.95
			Cum	6.50	2.55	Avg	0.45	Avg	7.46
			Cum	13.50	3.75	Avg	0.45	Avg	22.78
			Cum	15.50	3.80	Avg	0.45	Avg	26.51
			Cum	8.00	2.75	Avg	0.30	Avg	6.60
			Cum	12.50	2.70	Avg	0.45	Avg	15.19
			Cum	17.50	2.85	Avg	0.30	Avg	14.96
			Cum	9.50	2.65	Avg	0.30	Avg	7.55
			Cum	12.00	2.75	Avg	0.45	Avg	14.85
			Cum	8.50	3.30	Avg	0.30	Avg	8.42
			Cum	9.00	2.70	Avg	0.30	Avg	7.29
			Cum	15.00	3.50	Avg	0.45	Avg	23.63
			Cum	7.50	2.65	Avg	0.30	Avg	5.96
			Cum	11.00	2.55	Avg	0.30	Avg	8.42
			Cum	25.50	5.00	Avg	0.45	Avg	57.38
			Cum	9.00	2.60	Avg	0.30	Avg	7.02
			Cum	8.50	2.55	Avg	0.45	Avg	9.75
			Cum	11.50	2.50	Avg	0.30	Avg	8.63
			Cum	9.50	2.50	Avg	0.30	Avg	7.13
			Cum	20.00	4.75	Avg	0.45	Avg	42.75
			Cum	10.00	3.50	Avg	0.30	Avg	10.50
			Cum	14.50	2.85	Avg	0.45	Avg	18.60

12/6/2021

12/6/2021

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9/6/2024

Assistant Engineer
RWD (W) Sub Division, Barahara

12/6/20

Junior Engineer
RWD (w) Section, Barabara

12/20/50

Executive Engineer
RWD (w) Division, Ara

		SEIGNIORAGE FEE						
Sl. No.	SDB Sl. No	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required
BRICK BATS								
1	RCD		Providing and filling Brick Bats in ditches including cost of Brick Bats and labour all complete job as per specification and direction of E/I.					
			Unit = Cum					
		a)	Material					
			Brick Bats	Nos	450	0.704	316.90	
			Rate Per Cum (a)				316.90	
			Total Cost =	Cum			316.90	463.65
								1,46,930.22
								14,693.02
Total Construction Cost (With 10% Seigniorage Fee) :-								14,693.02

for 9/6/21

for 12/10/20 JE

for 09/08/21

Analysis for Carriage by Road

Name of Road: Detailed Estimate for Restoration Work on Sinha Sohra To Noorpur Under Barahara Block

District:- BHOJPUR

Block :- Barahara

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pukka / Surface						
7	Brick	1000 Nos	Local	8.00						
				2.00	x 6.83	x 7.00 Km = Rs 191.34	2.00	x 16.54	x 1.00 Km = Rs 66.16	446.72
										Rs. 704.22

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Truck
For Surface Road	6.83
Unsurface Gravel R	8.22
Kachha Road	16.54

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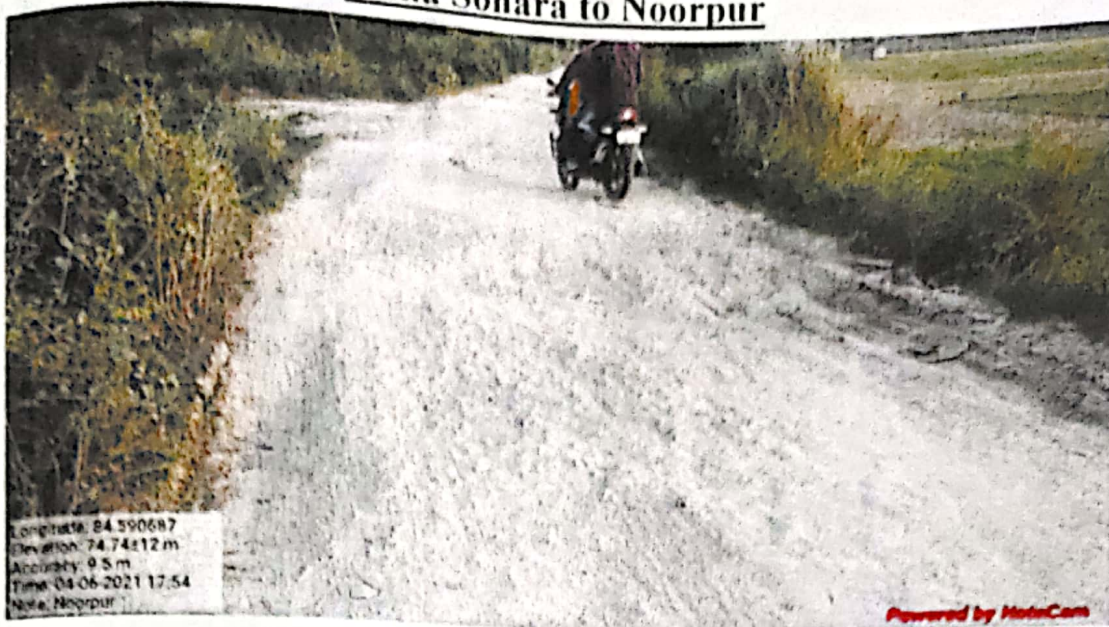
Sinha Sohara to Noorpur



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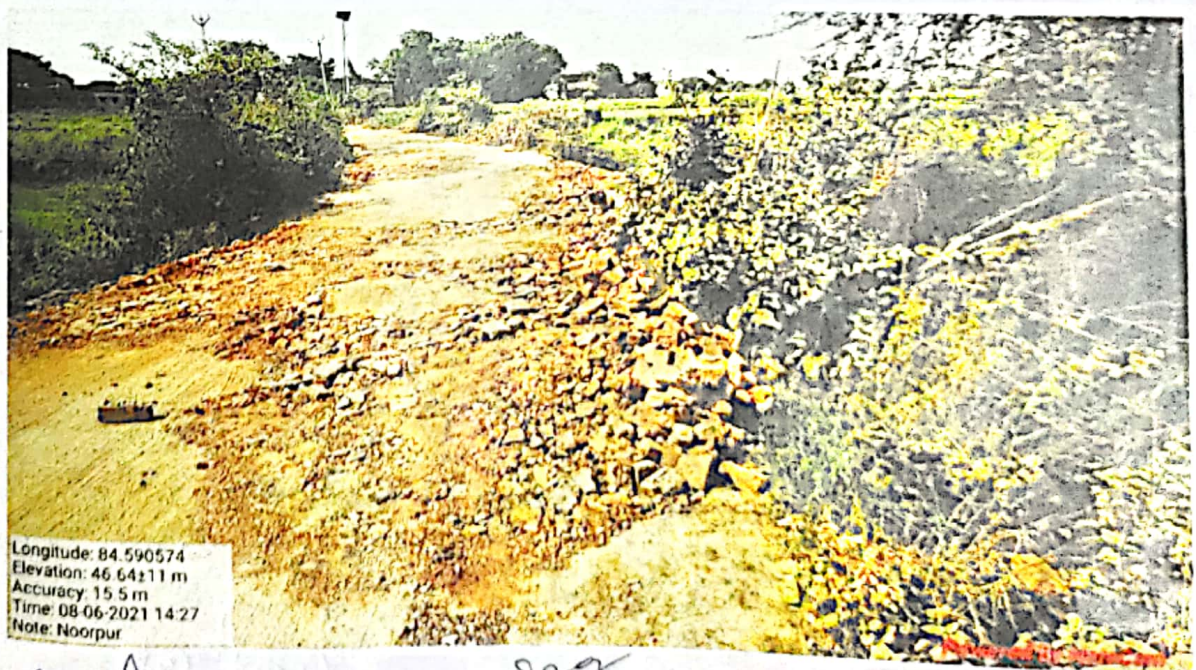
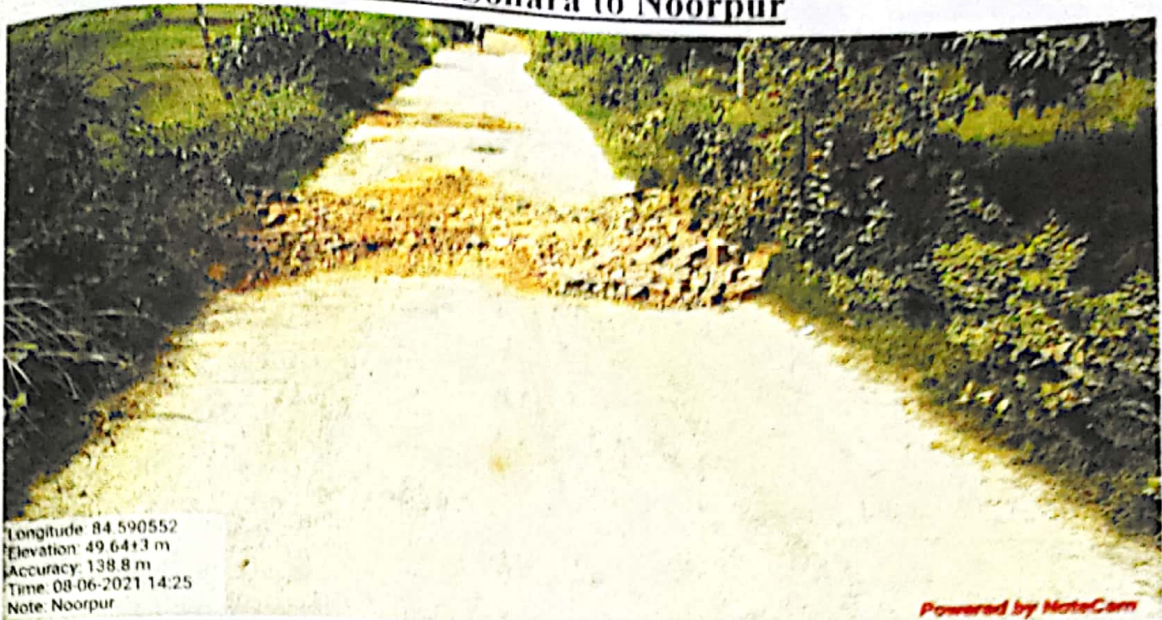
Sinha Sohara to Noorpur



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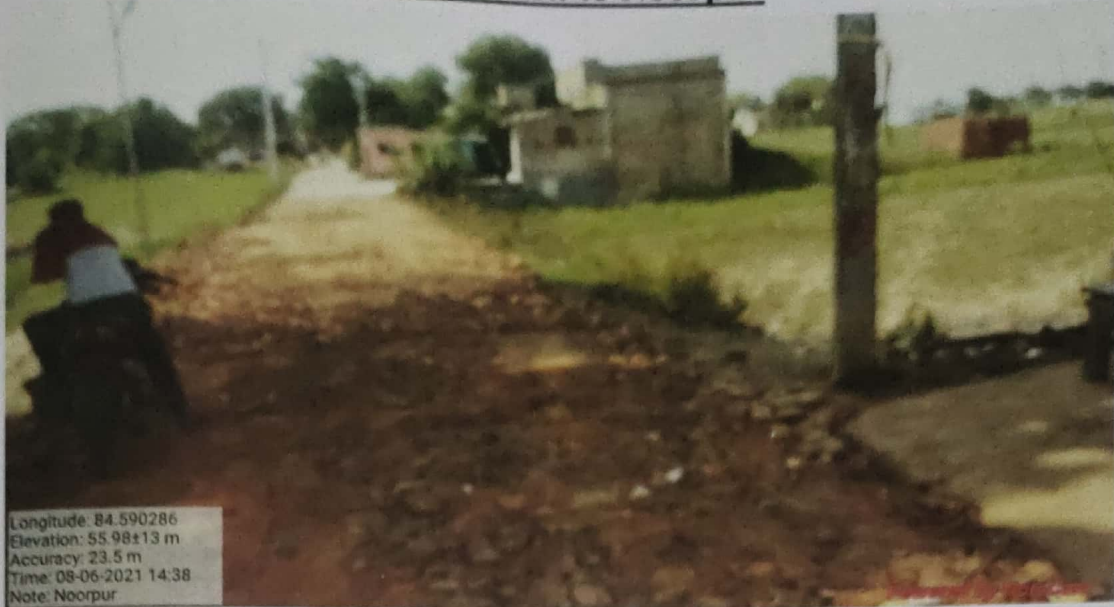
Sinha Sohara to Noorpur



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Sinha Sohara to Noorpur



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7/6/2021

Sinha Sohara to Noorpur



68/06/21
JE

9/6/21

Sinha Sohara to Noorpur



08/06/21
JE

08/06/21

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
HAULAGE BY TRUCK							
1	1.10	(i)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour				
		a)	Machinery Tipper 10 t capacity Haulage with load	hour	0.40	934.30	373.72
			Empty return trip	hour	0.29	934.30	270.95
		b)	Overheads @ 6 % on (a)				38.68
			Cost for 100 t-km = a+b				683.35
			Rate per cum = (a+b) / 100				6.83
			Rate Per Km.	Cum			6.83
2	1.10	(ii)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour				
		a)	Machinery Tipper 10 t capacity Haulage with load	hour	0.50	934.30	467.15
			Empty return trip	hour	0.33	934.30	308.32
		b)	Overheads @ 6 % on (a)				46.51
			Cost for 100 t-km = a+b				821.98
			Rate per cum = (a+b) / 100				8.22
			Rate Per Km.	Cum			8.22
3	1.10	(iii)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour				
		a)	Machinery Tipper 10 t capacity Haulage with load	hour	1.00	934.30	934.30
			Empty return trip	hour	0.67	934.30	625.98
		b)	Overheads @ 6 % on (a)				93.62
			Cost for 100 t-km = a+b				1653.90
			Rate per cum = (a+b) / 100				16.54
			Rate Per Km.	Cum			16.54

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs.
4	1.3		Loading, Unloading and Stacking of Bricks by Manual Means				
		(i)	Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				74.80
			Total (a)				
		b)	Machinery	hour	0.33	934.30	308.32
			Truck				308.32
			Total (b)				22.99
		c)	Overheads 6 % on (a+b)				40.61
		d)	Contractor's profit @ 10% on (a+b+c)				446.72
			Cost for 2000 Nos. = (a+b+c+d)				223.36
			Rate for 1000 bricks = (a+b+c)/2				223.36
			Total Cost	Nos			
5	1.3	(ii)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				74.80
			Total (a)				
		b)	Machinery	hour	0.33	934.30	308.32
			Truck				308.32
			Total (b)				22.99
		c)	Overheads 6 % on (a+b)				40.61
		d)	Contractor's profit @ 10% on (a+b+c)				446.72
			Cost for 2000 Nos. = (a+b+c+d)				223.36
			Rate for 1000 bricks = (a+b+c)/2				223.36
			Total Cost	Nos			
			Total Loading & Unloading of Brick Per 1000				= 223.36 + 223.36 =
							446.72

Sl. No.	SDH Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
6	RCD	11.9	BRICK BATS				
		(A)	Providing and filling Brick Bats in ditches including cost of Brick Bats and labour all complete job as per specification and direction of E/L				
			For 1 Cum=1.5 Cum				
		a)	Labour				
			Mazdoor (Unskilled)	Day	1.80	287.00	516.60
		b)	Material				
			Brick Bats	Cum	1.50	1,062.00	1,593.00
		c)	Carriage Cost				
			No of Bricks Per Cum 300 (850 for 100cft)	No	450.00	0.704	316.90
		d)	Overheads @ 6% on (a+b)				126.58
			Total Cost (A)				2553.08
			Rate Per Cum=(a+b+c+d)/1.5				1702.05
	WRD		Labour for laying dry graded Jhama Khoa for stone filter under brick pitching or boulder pitching in slope or including light ramming etc. all complete job as per approved design and direction of E/L				
	BIHAR						
	6.61	(B)	Unit- Cum				
			Taking Output=2.832 Cum				
		a)	Labour				
			Mazdoor (Unskilled)	Day	3.00	287.00	861.00
		b)	Overheads @ 6% on (a)				51.62
			TotalCost (B)				912.66
			Rate Per Cum=(B)/2.832				322.27
			Total Cost of Brick Bats Per Cum (A+B)	Cum			2024.32

अधीक्षण अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, आरा

पत्रांक 733/अनु0/आरा, दिनांक 17/08/2021

प्रेषक :- अधीक्षण अभियंता
ग्रामीण कार्य विभाग,
कार्य अंचल, आरा।

सेवा में,
नोडल पदाधिकारी
FDR कोषांग
ग्रामीण कार्य विभाग, पटना।

विषय :- अतिवृष्टि/बाढ़ से क्षतिग्रस्त हुए पथों का Restoration का प्राक्कलन तकनीकी
अनुमोदनोपरान्त समर्पित करने के संबंध में।

प्रसंग :- कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, आरा का पत्रांक-963
अनु0 दिनांक-20.07.2021

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध कहना है कि ग्रामीण कार्य विभाग,
कार्य प्रमंडल, आरा अन्तर्गत अतिवृष्टि/बाढ़ से क्षतिग्रस्त हुए पथ का प्राक्कलन तकनीकी
अनुमोदनोपरान्त समर्पित की जा रही है। पथ की विवरणी निम्न है :-

क्र0	प्रखंड का नाम	पथ का नाम	पथ की लम्बाई (कि0मी0 में)	प्राक्कलित राशि (लाख में)
1	2	3	4	5
1.	बड़हरा	सिन्हा सोहरा से नुरपुर	2.080	9.650

अनु0 :- प्राक्कलन की एक प्रति मूल में।

विश्वासभाजन
17/8/21
अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल, आरा
17/8

निरीक्षण प्रतिवेदन

अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, आरा का पत्रांक-486 दिनांक-18.06.2021 के द्वारा दिये गये निर्देश के अनुपालन में कार्य प्रमंडल, आरा के अंतर्गता वर्ष 2021-22 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त निम्नलिखित पथों के Temporary Restoration वाले कार्य स्थलों का निरीक्षण किया गया एवं उन पथों को प्राक्कलन के अनुसार कार्य कराया गया एवं कार्य संतोषप्रद पाया गया।

पथ का विवरण:-

Sl No.	Name of Road	Length (In K.M)	Damage Length (In K.M)	Block
1	Sinha Sohra to Noorpur	2.080	0.416	Barahara


08/06/21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल आरा।


10/06/21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल पीरो।