



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FLOOD DAMAGE REPORT

DETAIL ESTIMATE OF RESTAURATION WORK

YEAR (2021-2022)

DISTRICT :- BHOJPUR
DIVISION :- ARA
BLOCK :- ARA

NAME OF ROAD	:-	NH84 TO RCD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANDA, BEHRA
LENGTH OF ROAD	:-	9.70 K.M
YEAR OF RESTORATION	:-	2021-22
COST OF RESTORATION	:-	Rs 456300.00
TOTAL COST OF PROJECT	:-	Rs. 4.563 Lacs

SUBMITTED BY :-
EXECUTIVE ENGINEER
RURAL WORKS DIVISION ARA
BHOJPUR

निरीक्षण प्रतिवेदन

अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, आरा का पत्रांक-923 दिनांक-14.11.2021 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 METER)	Block
1	Agiaon to Bagapul Path	12.30	1681.5	Agiaon
2	NH-84 to Ara Salempur RCD Road via Khajuriya Dhamar Agarsanda Behara Path tak	9.70	713	Ara


कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल आरा।

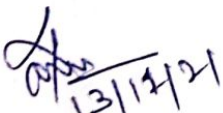

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल बक्सर।

तकनीकी प्रतिवेदन

जिला : भोजपुर
योजना का नाम : NH84 से सलेमपुर RCD पथ भाया खजुरियाँ धमार अग्रसण्डा
बेहरा में रेस्टोरेसन का कार्य।
पथ की लम्बाई : 9.70 कि० मी०।
प्राक्कलित राशि : 4.563 लाख।

प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया है। यह पथ NH84 से सलेमपुर RCD पथ को जोड़ने वाला महत्वपूर्ण पथ है। खजुरियाँ, धमार, अग्रसण्डा तथा बेहरा ग्राम की पुरी आबादी इसी पथ पर निर्भर है। यह पथ गंगा नदी में आयी बाढ़ के पानी से पूर्ण रूप से डुबा हुआ था। आवागमन के लिये महत्वपूर्ण पथ होने के कारण इस पथ को कॉफी क्षति पहुँची है। इस पथ का कुछ पथांश ध्वस्त हो चुका था। यातायात अवरुद्ध था, पथ में बड़े बड़े गढ़े हो गये थे। पथ में सुगम यातायात हेतु ईट का टुकड़ा डालकर पथ को चालु किया गया है। यह कार्य विभागीय स्तर पर किया गया है।

यह प्राक्कलन, कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमण्डल आरा के निदेश पर तैयार किया गया है। प्राक्कलन में प्रयुक्त दर वर्तमान अनुसूचि दर (01.04.2021 से प्रभावी) पर आधारित है। कार्य हित में तकनीकी एवं प्रशासनिक अनुमोदन अपेक्षित है।


कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा आरा।

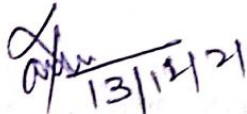
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल आरा।


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल आरा।

E.D.R
YEAR (2021-2022)
RESTAURATION WORK
GENERAL ABSTRACT OF COST

District : O RCD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANDA,
Division : ARA
Block : ARA
Name of Road : O RCD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANDA,
Length of Road : 9.70 K.M

SL.	Item of Work	Amount	
1	TOTAL COST OF RESTORATION	=	4,56,326.18
2	COST OF OTHER WORK	=	0.00
	SUB TOTAL	=	4,56,326.18
	Total Cost of Project	Rs.	4,56,326.18
	SAY	Rs.	4,56,300.00


13/12/21
Junior Engineer
RWD WORKS SECTION
ARA

Asstt. Engineer
RWD WORKS SUB-DIVISION
ARA


13/12/21
Executive Engineer
RWD WORKS DIVISION
ARA



SUMMARY OF COST FOR THE FDR PROJECT

NAME OF ROAD : ICD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANI
 DISTRICT : BHOJPUR
 BLOCK : ARA
 CONSTITUENCY : ARA
 LENGTH OF ROAD (in Km) : 9.70 K.M
 LENGTH OF BT PAVEMENT : 9.70 K.M
 LENGTH OF CC PAVEMENT : 0.00 K.M
 No. HABBITATION SERVED : 4

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	MAIN WORK	
I	PREPARATORY WORKS =	0.00
II	BRICK BATS WORK =	394938.50
	TOTAL =	394938.50
	Add 12% GST on Total Amount =	47392.62
	Add 1% Labour Cess on Total Amount =	3949.39
	Seigniorage Fees @ 10% =	10045.68
	SUB TOTAL (A) =	456326.18
2	CROSS DRAINAGE STRUCTURES	
I	HUME PIPE =	0.00
II	RCC =	0.00
III	BOX =	0.00
IV	Utility Pipe (300 mm Dia) =	0.00
V	DISMANTLING OF CD =	0.00
VI	REPAIR OF CD WORK =	0.00
	TOTAL =	0.00
	Add 12% GST on Total Amount =	0.00
	Add 1% Labour Cess on Total Amount =	0.00
	Seigniorage Fees @ 10% =	0.00
	SUB TOTAL (B) =	0.00
	TOTAL COST OF RESTORATION (A+B) =	456326.18

[Signature]
 13/11/21
Junior Engineer
 RWD WORKS SECTION
 ARA

Asstt. Engineer
 RWD WORKS SUB-DIVISION
 ARA

[Signature]
 13/11/21
Executive Engineer
 RWD WORKS DIVISION
 ARA

4.563 Lacs (Rupees)
 Four Lacs Fifty Six Thousand Three
 Hundred and 18/-
 59/10

Certified Copy
[Signature]
 S.E.
 R.W.D. Works Circle
 K.M.

Superintending Engineer
 Rural Works Department
 Minke Circle, A-12



DETAIL ESTIMATE OF FDR

Name of Site: NH84 TO RCD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANDA, BEHRA										
1	RCD	Brick Bats	Providing and filling Brick Bats in ditches including cost of Brick Bats and labour all Complete Job as per specification							
			U	L	B		D		QTY	
			Cum	5.00	1	Avg	0.150	Avg	0.75	
			Cum	15.00	3	Avg	0.200	Avg	9.00	
			Cum	15.00	1.5	Avg	0.150	Avg	3.38	
			Cum	6.00	3	Avg	0.250	Avg	4.50	
			Cum	7.00	3	Avg	0.150	Avg	3.15	
			Cum	5.00	3	Avg	0.200	Avg	3.00	
			Cum	4.00	2	Avg	0.100	Avg	0.80	
			Cum	8.00	2.5	Avg	0.150	Avg	3.00	
			Cum	5.00	3	Avg	0.100	Avg	1.50	
			Cum	10.00	3	Avg	0.200	Avg	6.00	
			Cum	15.00	3	Avg	0.100	Avg	4.50	
			Cum	12.00	3	Avg	0.150	Avg	5.40	
			Cum	6.00	3	Avg	0.150	Avg	2.70	
			Cum	5.00	2	Avg	0.250	Avg	2.50	
			Cum	4.50	2	Avg	0.150	Avg	1.35	
			Cum	15.00	2	Avg	0.200	Avg	6.00	
			Cum	10.00	3	Avg	0.150	Avg	4.50	
			Cum	10.00	1.5	Avg	0.100	Avg	1.50	
			Cum	12.00	3	Avg	0.150	Avg	5.40	
			Cum	3.00	1.5	Avg	0.200	Avg	0.90	
			Cum	15.00	3	Avg	0.150	Avg	6.75	
			Cum	15.00	3	Avg	0.200	Avg	9.00	
			Cum	10.00	3	Avg	0.150	Avg	4.50	
			Cum	9.00	1.5	Avg	0.100	Avg	1.35	
			Cum	11.00	3	Avg	0.150	Avg	4.95	
			Cum	1.00	1	Avg	0.200	Avg	0.20	
			Cum	13.00	1.5	Avg	0.150	Avg	2.93	
			Cum	15.00	1.5	Avg	0.200	Avg	4.50	
			Cum	15.00	1.5	Avg	0.150	Avg	3.38	
			Cum	5.00	1.25	Avg	0.250	Avg	1.56	
			Cum	7.00	1.5	Avg	0.150	Avg	1.58	
			Cum	7.00	1	Avg	0.100	Avg	0.70	
			Cum	2.00	3	Avg	0.150	Avg	0.90	
			Cum	4.00	3	Avg	0.200	Avg	2.40	
			Cum	11.00	2	Avg	0.150	Avg	3.30	
			Cum	3.00	1.15	Avg	0.100	Avg	0.35	
			Cum	2.00	2.25	Avg	0.150	Avg	0.68	
			Cum	10.00	2	Avg	0.200	Avg	4.00	
			Cum	15.00	1.5	Avg	0.150	Avg	3.38	
			Cum	7.00	1.5	Avg	0.150	Avg	1.58	
			Cum	15.00	1.5	Avg	0.200	Avg	4.50	
			Cum	7.00	3	Avg	0.150	Avg	3.15	
			Cum	2.00	3	Avg	0.200	Avg	1.20	
			Cum	3.00	1.5	Avg	0.150	Avg	0.68	


 13/12/21



		Cum	1.00	3	Avg	0.200	Avg	0.60		
		Cum	12.00	3	Avg	0.150	Avg	5.40		
		Cum	5.00	3	Avg	0.150	Avg	2.25		
		Cum	10.00	1	Avg	0.250	Avg	2.50		
		Cum	2.00	1	Avg	0.200	Avg	0.40		
		Cum	5.00	3	Avg	0.150	Avg	2.25		
		Cum	8.00	1.5	Avg	0.150	Avg	1.80		
		Cum	7.00	3	Avg	0.150	Avg	3.15		
		Cum	8.00	1.5	Avg	0.150	Avg	1.80		
		Cum	2.00	3	Avg	0.200	Avg	1.20		
		Cum	9.00	3	Avg	0.150	Avg	4.05		
		Cum	2.00	3	Avg	0.200	Avg	1.20		
		Cum	3.00	1.5	Avg	0.150	Avg	0.68		
		Cum	2.00	1	Avg	0.250	Avg	0.50		
		Cum	1.00	1	Avg	0.150	Avg	0.15		
		Cum	2.00	3	Avg	0.150	Avg	0.90		
		Cum	1.50	1	Avg	0.200	Avg	0.30		
		Cum	9.00	1.5	Avg	0.150	Avg	2.03		
		Cum	15.00	1.5	Avg	0.150	Avg	3.38		
		Cum	3.00	1	Avg	0.250	Avg	0.75		
		Cum	6.00	3	Avg	0.150	Avg	2.70		
		Cum	4.00	3	Avg	0.150	Avg	1.80		
		Cum	3.00	2	Avg	0.200	Avg	1.20		
		Cum	15.00	1.6	Avg	0.150	Avg	3.60		
		Cum	3.00	1.1	Avg	0.250	Avg	0.83		
		Cum	12.00	3	Avg	0.150	Avg	5.40		
		Cum	5.00	1.2	Avg	0.150	Avg	0.90		
		Cum	2.00	1.1	Avg	0.250	Avg	0.55		
		Cum	12.00	1.3	Avg	0.150	Avg	2.34		
		Cum	12.00	1.3	Avg	0.150	Avg	2.34		
		Cum	15.00	1.3	Avg	0.150	Avg	2.93		
		Cum	15.00	1.3	Avg	0.200	Avg	3.90		
		Cum	15.00	3	Avg	0.150	Avg	6.75		
		Cum	15.00	2	Avg	0.150	Avg	4.50		
		Cum	3.00	3	Avg	0.150	Avg	1.35		
		Cum	3.15	2	Avg	0.240	Avg	1.51		
		Cum	3.00	3	Avg	0.150	Avg	1.35		
		Net Quantity	Cum					216.52	1,823.99	3,94,938.50
								TOTAL COST IN RS.=		3,94,938.50

[Signature]
13/11/21
Junior Engineer
RWD WORKS SECTION
ARA

Asstt. Engineer
RWD WORKS SUB-DIVISION
ARA

[Signature]
13/11/21
Executive Engineer
RWD WORKS DIVISION
ARA

checked
[Signature]
27.11.2021
Executive Engineer
R.W.D. (W.) Div., Buxar



SEIGNIORAGE FEE						
Name of Site: NH84 TO RCD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANDA, BEHRA						
Sl. No.	SDB SI.NO	MORD Ref.No	Description	Unit	Quantity	Rate
BRICK BATS						
1	RCD	0	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.			
			Unit = Cum	UNIT	QTY	RATE
		a)	Material			AMT
			Brick Bats	Nos	450	1.031
			Rate Per Cum (a)			463.95
			Total Cost =	Cum		463.95
					216.53	1,00,456.77
						10,045.68
Total Construction Cost (With 10% Seigniorage Fee) :--						10,045.68

13/11/21

13/11/21

ANALYSIS OF CARRIAGE BY ROAD

District : BHOJPUR

Block : ARA

Name of Road : NH84 TO RCD ROAD SALEMPUR VIA KHAJURIA, DHAMAR, AGARSANDA,

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Truck
For Surface Road	9.09
Unsurface Gravel Road	11.00
Kachha Road	22.13

Sl.	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km										Loading & Unloading Cost	Total	
				Pukka / Surface					Katcha							
				8.00 2.00	x	9.09	x	7.00 Km =	Rs 254.50	8.00 2.00	x	22.13	x			1.00 Km =
1	Brick	1000	Local													Rs. 868.97
																Rs. 868.97

13/1/21

13/1/21

HAULAGE BY TRUCK							
Sl. No.	SDB Sl. No.	MORD Ref. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
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	0.400	1183.00	473.20
			Empty return trip	hour	0.286	1183.00	338.34
		b)	Overheads @ 12 % on (a)				97.38
		c)	Contractor's profit on (a+b)				0.00
			Cost for 100 t-km = a+b				908.92
			Rate per cum = (a+b) / 100				9.09
			Rate Per Km.	Cum			9.09
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	1183.00	591.50
			Empty return trip	hour	0.33	1183.00	390.39
		b)	Overheads @12% on (a)				117.83
		c)	Contractor's profit on (a+b)				0.00
			Cost for 100 t-km = a+b				1099.72
			Rate per cum = (a+b) / 100				11.00
			Rate Per Km.	Cum			11.00
	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	1183.00	1183.00
			Empty return trip	hour	0.67	1183.00	792.61
		b)	Overheads @ 12 % on (a)				237.07
		c)	Contractor's profit on (a+b)				0.00
			Cost for 100 t-km = a+b				2212.68
			Rate per cum = (a+b) / 100				22.13
			Rate Per Km.	Cum			22.13
13		(f)	Loading, Unloading and Stacking of Bricks by Manual Means Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour Mate	day	0.01	321.00	3.21
			Mazdoor (Unskilled)	day	0.25	304.00	76.00
			Total (a)				79.21
		b)	Machinery Truck	hour	0.33	1183.00	390.39
			Total(b)				390.39
		c)	Overheads 12 % on (a+b)				56.35
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 2000 Nos. = (a+b+c+d)				525.95
			Rate for 1000 bricks = (a+b+c)/2				262.98
			Total Cost	Nos			262.98
13		(II)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour Mate	day	0.01	321.00	3.21
			Mazdoor (Unskilled)	day	0.25	304.00	76.00
			Total (a)				79.21
		b)	Machinery				

13/11/21



		Truck					
				Rate	6.00	1000.00	290.00
			Total (B)				100.00
	(3)	Overheads (10% on (a+b))					10.00
	(4)	Contractor's profit @ 10% on (a+b+c)					0.00
		Cost for 1000 Nos. = (a+b+c+d)					100.00
		Rate for 1000 bricks = (a+b+c+d)					100.00
			Total Cost	Rate			24.2.00
		Total Loading & Unloading of brick per 1000 = 24.2.00 = 24.2.00					
							24.2.00
		BRICK RATE					
	(A)	Providing and filling brick rate in structure including cost of brick rate and labour at complete per sq. meter specification and thickness of 150					
		For 1 Cum = 1.5 Cum					
	(1)	Labour					
		Machine (Overhead)					
	(2)	Material	Rate	1.00	1000.00		100.00
		Brick Rate	Rate	1.00	1000.00		1000.00
	(3)	Carriage Cost					
		No. of Bricks Per Cum 100 Nos. (100 for 1000)	No.	1000.00	1.00		100.00
	(4)	Overheads @ 10% on (a+b)					10.00
			Total Cost (A)				100.00
		Rate Per Cum (a+b+c+d) 1.5					100.00
		Total Cost of Brick Rate Per Cum (B+C)	Rate				24.2.00

13/11/21