



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

F.D.R

STATE :- BIHAR

DISTRICT :- Bhojpur

BLOCK :- Koilwar

**Detail Estimate for Restoration of traffic on Gidha
Makhalisa to Birampur Khesarhiya Baag Majuwan Path
under Koilwar Block**

TOTAL COST OF RESTORATION :- Rs. 13.497 Lacs

TOTAL COST OF PROJECT :- Rs. 13.497 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER
RWD (W) DIVISION, ARA
BHOJPUR

तकनीकी प्रतिवेदन

जिला-भोजपुर (आरा)

प्रखंड- कोइलवर

योजना का नाम-गीधा मोखलिसा से बीरमपुर खेसरहीया बाग मझौवा पथ का यातयात चालू रखने का कार्य।

पथ की कुल लंबाई-10.00 कि०मी०

प्राक्कलित राशि- 13.497 लाख रू०

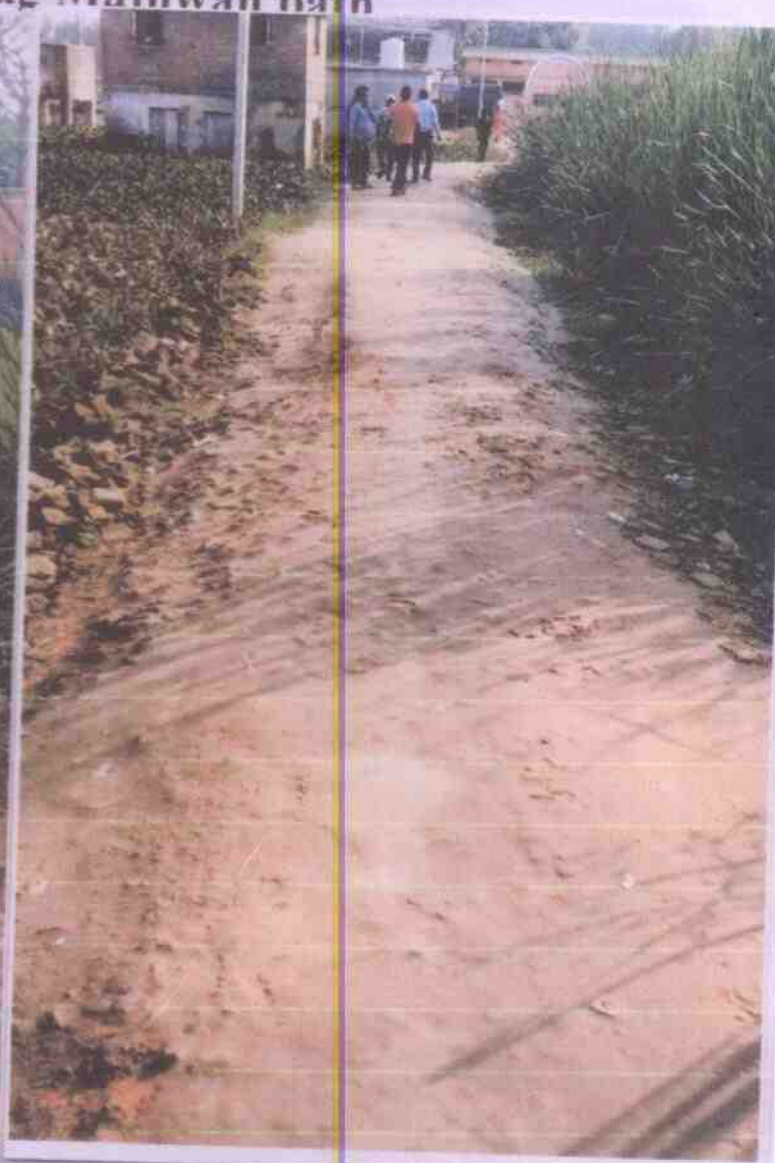
प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया है जिसकी प्राक्कलित राशि-13.497 लाख रू० है। यह पथ एन०एच०-30 के गीधा से बीरमपुर तक जाती है। भारी वर्षा के कारण पथ की स्थिति बहुत ही दयनीय हो गया है। जिससे होकर आवागमन में बहुत ही कठिनाई होती है, तथा दुर्घटना की संभावना बनी रहती है पथ के दोनो तरफ काफी गहरा गढ़ा है तथा पानी भरा रहता है। जिसके कारण आवागमन बंद हो गया था। जिसका मरम्मत कार्य कराना काफी आवश्यक था। जिसे ब्रीक बैट्स के टुकड़े से गद्दों को भरने का प्रावधान इस प्राक्कलन में किया गया है।

प्राक्कलन में प्रयुक्त दर वर्तमान अनुसूचित दर पर तैयार किया गया है। कार्य हित में तकनीकी अनुमोदन एवं प्रशासनिक स्वीकृति अपेक्षित है।

13/10/2020
कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, कोइलवर

20/08/2020
सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल, कोइलवर

20/08/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, आरा।



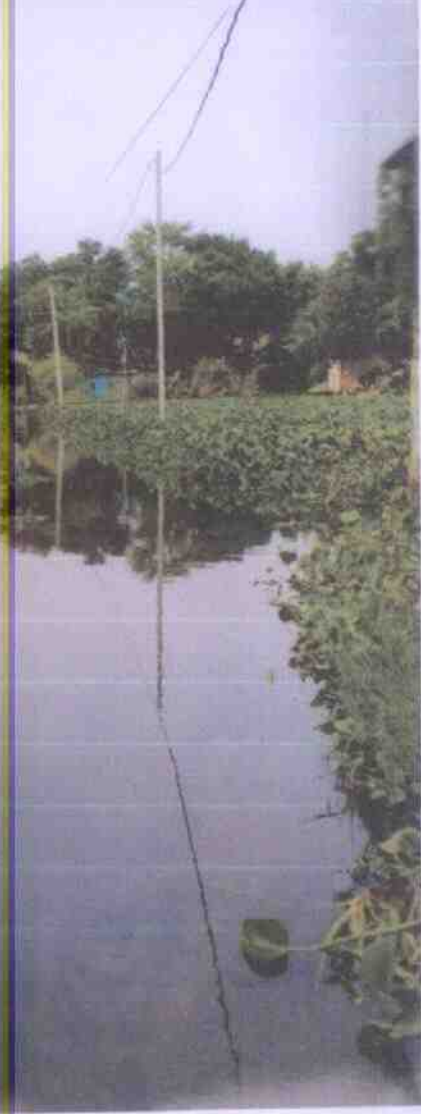
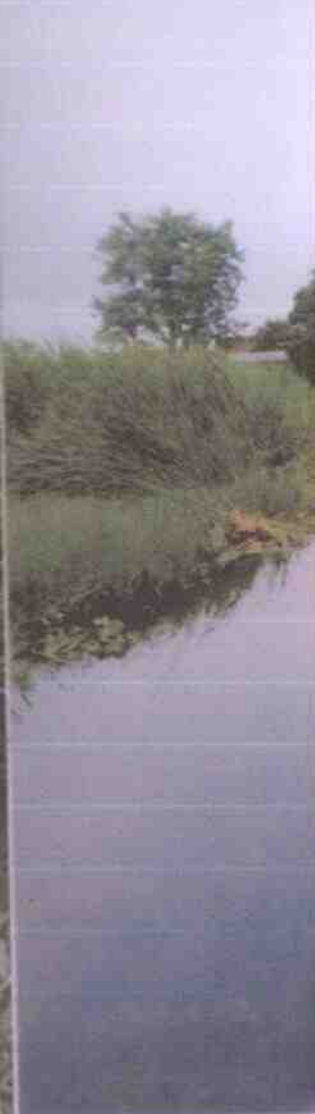
$\frac{2000}{100} = 20$
 $\frac{2000}{100} = 20$



15/10
20/8/2020
R

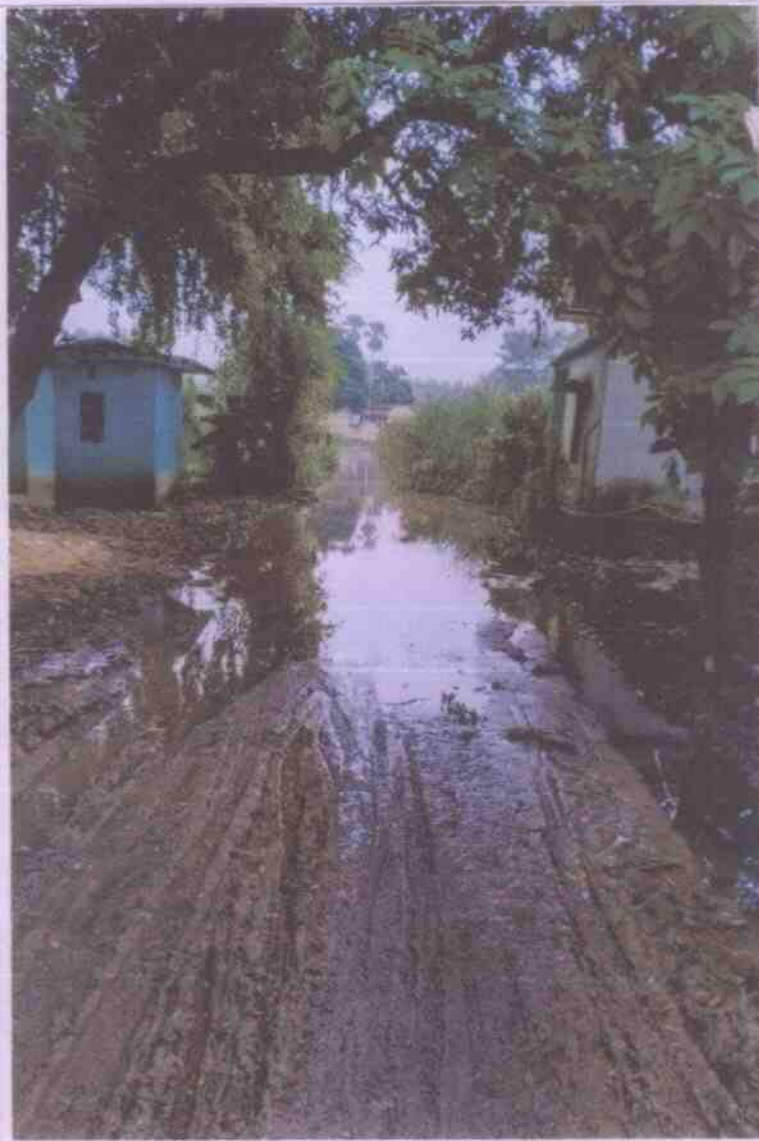
20/8/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, आरा

Restoration Work on Gidha Makhalisa to Birampur Khesarhiya Bag Mainwan path



amplified
by
the
main
path

for



24/8/2020
20/8/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, आरा

F.D.R

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Koilwar

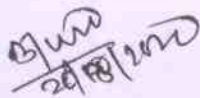
District:--Bhojpur

Name of Road:--

Detail Estimate for Restoration of traffic on Gidhu Makhalisa
to Birampur Khesarhiya Baag Majuwan Path under Koilwar Block

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF RESTORATION	1134742 = 13.497 Lacs
	Sub Total= (A)	13.497 Lacs
	TOTAL cost of project	13.497 Lacs

11347 / 2k3


Junior Engineer
RWD (w)Section , Koilwar


Asstt. Engineer
RWD (w)Sub Division , Koilwar


Executive Engineer
RWD (w) Division, Ara

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Detail Estimate for Restoration of traffic on Gidha Makhalisa to Birampur Khesarhiya Baag Majuwan Path under Koilwar Block

DISTRICT Bhojpur

BLOCK Koilwar

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS WORK	990506.00 11.781
		990506.00 11.781
	12% GST on Total Amount :-	1,18,861.00 1.188
	1% Lab Cess :-	9905.00 0.118
	Seigniorage Fee :-	15470.00 0.184
	Total Constriction Cost (including GST and Labour Cess & SF) (A) :-	1,13,47,42.00 13.497
	TOTAL COST OF PROJECT IN LACS(including GST 12% & 1% Lab Cess & SF) :-	11.347 Lakhs 13.497

[Signature]
20/08/2020
Junior Engineer
RWD (w) Section, Koilwar

[Signature]
20/08/2020
Assistant Engineer
RWD (w) Sub Division, Koilwar

[Signature]
20/08/2020
Executive Engineer
RWD (w) Division, Ara

[Signature]
20/10/20
कार्यपालक अभियन्ता
ग्रामीण कार्य विभाग
कार्य प्रमंडल-डुमराही

Technically approve for Rs. 11.347 / 2k 1 Rupees
Eleven lakh thirty four Thousand
Seven hundred only.

[Signature]
20/11/20
Superintending Engineer
Rural Works Department
Works Circle, ARA

Cost Estimate for Road Work

FORMAT F6

Sl. No.	SDB SL. NO.	MORD Ref. No.	Description	Unit	Quantity	Rate	Amount (In Rs.)
Sub Head : PAVEMENT WORK							
1		RCD	Brick Bat Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L				
			Filling and levelling in Ditch				
			KM 1				
			Net Qty. Required	Cum	1	97.00	5.00 avg. 1.200
					582.00	2,024.17	11,78,066.72
B) SUB TOTAL =							11,78,066.72
TOTAL COST OF PAVEMENT IN RS. (A+B) =							11,78,066.72

[Signature]
Junior Engineer
RWD (w) Section, Kailwar

[Signature]
Assistant Engineer
RWD (w) Sub Division, Kailwar

[Signature]
Executive Engineer
RWD (w) Division, Ara

SEIGNIORAGE FEE

Sl. No.	SDB No.	MORP Ref. No.	Description	Unit	Quantity	Rate	Amount (Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
1	RCD		Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L							
			Unit = cum							
		a)	Material							
			Brick Bats	Nos.	450.00	0.70	316.85			
			Rate Per Cum = (a) =				316.85			
			Total Cost = Cum				316.85	382.00	1652.953	100.00

22/8/2020
H

18/8/2020
H

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, आरा

Carriage by Road

Name of Road:--

Detail Estimate for Restoration of traffic on Gidha Makhalisa to Birampur Khesarhiya Baag Majuwan Path under Kollwar Block

District:-

Block :- Kollwar

Sl No	Item with Source	Unit	Source Up to	Per Ton. / Surface	Carriage Cost & Lead In Km	Katcha	Loading & Unloading Cost	Carriage Cost by Ball Head	Total
7	Brick	1000 Nos Local		$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$		446.72		Rs. 704.12

Cost of Haulage Excluding Loading & Unloading as per SOR

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

* Subjected to Verification of Lead

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, आरा

प्रमाणित
२०२४/०८/२०

प्रमाणित
२०२४/०८/२०

Analysis of Rates (FORMAT F8)

Sl. No.	SUB SL No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
Haulage BY TRUCK							
4	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 Truck 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+c				683.35
			Rate per cum = (a+b+c) /100				6.83
			Rate Per Km.	Cum			6.83
5	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 Truck 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)				46.53
			Cost for 100 t-km = a+b+c				822.00
			Rate per cum = (a+b+c) /100				8.22
			Rate Per Km.	Cum			8.22
6	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 Truck 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+c				1653.90
			Rate per cum = (a+b+c) /100				16.54
			Rate Per Km.	Cum			16.54
14	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 Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	Machinery Truck	hour	0.33	934.30	308.32
		c)	Overheads 6 % on (a+b)				22.99
		d)	Contractor's profit @ 10% on (a+b+c)				40.61
			Cost for 2000 Nos. = a+b+c+d				446.72
			Rate for 1000 bricks = (a+b+c+d)/2				223.36
			Total Cost	no.			223.36

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
15		(ii)	Unloading and Stacking of Bricks by manual means including a Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	Machinery Truck	hour	0.33	934.30	308.32
		c)	Overheads 6 % on (a+b)				22.99
		d)	Contractor's profit @ 10% on (a+b+c)				40.61
			Cost for 2000 Nos. = a+b+c+d				446.72
			Rate for 1000 bricks = (a+b+c+d)/2				223.36
			Total Cost	no.			223.36
			Total Loding & Unloading of Brick Per 1000 = 223.36 + 223.36 =				446.72
	RCD		BRICK BATS				
11.9			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L For 1 cum = 1.5cum				
		a)	Labour Mazdoor (Unskilled)	day	2.00	287.00	574.00
		b)	Material Brick Bats	no.	1.50	1108.00	1,662.00
		c)	Carriage Cost No. of Bricks Per Cum 300 (850 for 100cft)	no.	450.00	0.704	316.85
			Total Cost				2,552.85
			A) Rate Per Cum				1,701.90
	WRD BIHAR		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				
			UNIT = Per Cum Taking Output = 2.832cum				
		a)	Labour Mazdoor (Unskilled)	day	3.00	287.00	861.00
			Overheads @ 6 % on (a+b+c)				51.66
			Rate for 2.832 cum				912.66
			B) Rate Per Cum				322.27
			Total Cost of Brick Bat per cum (A+B)	no.			2024.17

13/10/2020
26/10/2020
04/11/2020

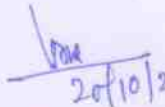
26/10/2020

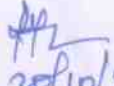
26/10/2020
कार्यपालके अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, आरा

निरीक्षण प्रतिवेदन

अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, आरा का पत्रांक-791 दिनांक-30.10.2020 के द्वारा दिये गये निदेश के अनुपालन में कार्य प्रमंडल आरा के कोइलवर एवं बड़हरा प्रखंडों के अन्तर्गत वर्ष 2020 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त निम्नलिखित पथों के Temporary Restoration वाले कार्य स्थलो का निरीक्षण किया गया एवं उन पथों को Motorable पाया गया।

Sl No.	Name of Road	Length (In K.M)	Damage Length (in km)	Block
1	Gidha Mokhalisa to Birampur Khesarahiya Bagh Majhuwan Path	13.497	13.497	Koilwar
2	Matukpur-Chater to Sivanchak	12.972	12.972	Barhara
3	Durgpur Shivpur Farhada Road to Sabalpur	10.839	10.839	Barhara


20/10/20
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, डुमराँव


20/10/2020
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, आरा