



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 :- Barhara

Detail Estimate for Restoration of traffic on Gundu to Bhakura path Under Barhara Block

TOTAL COST OF RESTORATION :- Rs. 8.370 Lacs

TOTAL COST OF PROJECT :- Rs. 8.370 Lacs

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

तकनीकी प्रतिवेदन

जिला-भोजपुर (आरा)

प्रखंड- बड़हरा

योजना का नाम-गुण्डी से भकुरा पथ का यातायात चालू रखने का कार्य।

पथ की कुल लंबाई-4.80 किमी०

प्रावक्कलित राशि-8.370 लाख रु०

प्रस्तुत प्रावक्कलन उपरोक्त कार्य हेतु तैयार किया गया है। जिसकी प्रावक्कलित राशि 8.370 लाख रु० है। भारी वर्षा के कारण पथ पर जल-जमाव हो गया उस समय भारी वाहन पथ से गुजरने के कारण पथ पूर्ण रूप से बंद हो गया। यातायात सूचारू रूप से कायम रखने हेतु ब्रीक बैट्स के टुकड़े से गढ़ों को भरने का प्रावधान इस प्रावक्कलन में किया गया है।

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

~~8.370.००~~
कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, बड़हरा

१०/१०/२०२०
सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल बड़हरा

०४/१०/२०२०
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, आरा।



13.10.20
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०१/१०/२०२०

कार्यपालक अभियंता
प्रामीण कार्य विभाग
कार्य प्रमंडल, आरा



३.१०.८

०४/१०/२०२०
५/१०/२०२०

कार्यपालिका उपभेदता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

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

Block:--Barhara

District:--Bhojpur

Name of Road:--

Detail Estimate for Restoration of traffic on Gundi to
Bhakura path Under Barhara Block

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF RESTORATION	<u>7.033</u> <u>8.370-Lacs</u>
	Sub Total= (A)	<u>8.370 Lacs</u>
		<u>7.033</u>
	TOTAL cost of project	<u>8.370 Lacs</u>
		<u>7.033 /2k5</u>


Junior Engineer

RWD (w)Section ,
Barhara


Asstt. Engineer

RWD (w)Sub Division , Barhara


Executive Engineer

RWD (w) Division, Ara

9/ 31/12/2020
2011212020
कार्यपालक अधिकारी
ग्रामीण कार्य विभाग
कार्य प्रमुख, पीठो (बोजपुर)

Technically approved for Rs. 7.033 /2k5 (Rupees
Seven lakh Three thousand & Three
hundred) only.


Superintending Engineer
Rural Works Department
Works Circle, Ara

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detail Estimate for Restoration of traffic on Gundli to Bhakura path
Under Brahma Block

DISTRICT

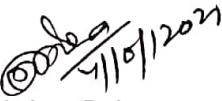
Bhojpur

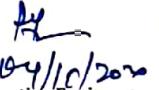
BLOCK

Barhara

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BATS WORK	6.143 7.306
		6.143 7.306
	12% GST on Total Amount :-	0.737 0.877
	1% Lab Cess :-	0.061 0.073
	Seigniorage Fee :-	0.092 0.114
	Total Construction Cost (including GST and Labour Cess & SF) (A) :-	7.033 8.370
	TOTAL COST OF PROJECT IN LACS (including GST 12% & 1% Lab Cess & SF) :-	7.033 8.370


 Junior Engineer
 RWD (w)Section , Barhara


 Assistant Engineer
 RWD (w)Sub Division , Barhara


 Executive Engineer
 RWD (w) Division,
 Ara


 20/12/2020
 कार्यपालक अधियंता
 यामीन कार्य विभाग
 कार्य प्रमंडल, फरो (ओजपुर)

Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	QUANTITY	RATE	AMOUNT (In Rs.)
1	RCD	Brick Bat	Sub Head : PAVEMENT WORK				
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L				
			Filling and levelling in Ditch				
			KM 1				
			Ditch 1 Cum 1	7.00	2.50 avg.	0.150	2.63
			Ditch 2 Cum 1	11.00	1.50 avg.	0.240	3.96
			Ditch 3 Cum 1	15.00	2.10 avg.	0.150	4.73
			Ditch 4 Cum 1	14.50	1.60 avg.	0.200	4.64
			Ditch 5 Cum 1	15.00	2.00 avg.	0.200	6.00
			Ditch 6 Cum 1	10.50	1.20 avg.	0.225	2.84
			Ditch 7 Cum 1	12.50	2.50 avg.	0.200	6.25
			Ditch 8 Cum 2	5.50	1.60 avg.	0.200	3.52
			Ditch 9 Cum 1	18.50	1.50 avg.	0.200	5.55
			Ditch 10 Cum 1	21.50	1.20 avg.	0.150	3.87
			Ditch 11 Cum 1	6.50	2.50 avg.	0.150	2.44
			Ditch 12 Cum 1	7.80	2.10 avg.	0.200	3.28
			Ditch 13 Cum 1	10.50	1.80 avg.	0.200	3.78
			Ditch 14 Cum 1	12.80	2.00 avg.	0.200	5.12
			KM 2				
			Ditch 1 Cum 1	15.50	2.10 avg.	0.150	4.88
			Ditch 2 Cum 1	5.50	2.00 avg.	0.200	2.20
			Ditch 3 Cum 1	12.50	1.80 avg.	0.200	4.50
			Ditch 4 Cum 1	15.80	1.20 avg.	0.250	4.74
			Ditch 5 Cum 1	12.80	1.50 avg.	0.200	3.84
			Ditch 6 Cum 1	7.80	2.60 avg.	0.200	4.06
			Ditch 7 Cum 1	12.50	2.20 avg.	0.200	5.50
			Ditch 8 Cum 1	15.50	1.80 avg.	0.225	6.28
			Ditch 9 Cum 1	30.50	2.50 avg.	0.150	11.44
			Ditch 10 Cum 1	25.50	1.80 avg.	0.200	9.18
			Ditch 11 Cum 1	45.50	2.10 avg.	0.225	21.50
			Ditch 12 Cum 1	35.80	1.60 avg.	0.200	11.46
			Ditch 13 Cum 1	15.50	1.50 avg.	0.150	3.49
			Ditch 14 Cum 1	21.80	1.80 avg.	0.225	8.83
			Ditch 15 Cum 1	10.50	2.50 avg.	0.200	5.25
			Ditch 16 Cum 1	35.80	1.60 avg.	0.200	11.46

SL. No.	SDB SL. No	MORD Ref.No	Description	Cost Estimate for Road Work					
				Unit			QUANTITY	RATE	AMOUNT (In Rs.)
			Ditch 17	Cum	1	15.50	2.20 avg	0.250	8.53
			Ditch 18	Cum	1	5.50	1.60 avg	0.200	1.76
			Ditch 19	Cum	1	25.80	2.10 avg	0.250	13.55
			Ditch 20	Cum	1	10.50	3.00 avg	0.200	6.30
			Ditch 21	Cum	1	26.50	1.50 avg	0.225	9.54
			Ditch 22	Cum	1	8.80	2.50 avg	0.300	6.60
			Ditch 23	Cum	1	18.80	1.80 avg	0.200	6.77
			Ditch 24	Cum	1	12.50	2.50 avg	0.250	7.81
			Ditch 25	Cum	1	35.00	1.60 avg	0.200	11.20
KM 3									
			Ditch 1	Cum	1	15.00	2.20 avg	0.300	9.90
			Ditch 2	Cum	1	21.20	1.60 avg	0.250	8.48
			Ditch 3	Cum	1	15.50	2.50 avg	0.200	7.75
			Ditch 4	Cum	1	8.60	2.00 avg	0.250	4.30
			Ditch 5	Cum	1	12.80	2.80 avg	0.250	8.96
			Ditch 6	Cum	1	21.70	1.80 avg	0.200	7.81
			Ditch 7	Cum	1	41.00	2.20 avg	0.225	20.30
KM 4									
			Ditch 1	Cum	1	17.50	1.60 avg	0.200	5.60
			Ditch 2	Cum	1	21.80	1.50 avg	0.250	8.18
			Ditch 3	Cum	1	38.50	1.80 avg	0.200	13.86
			Ditch 4	Cum	1	8.50	2.50 avg	0.200	4.25
			Ditch 5	Cum	1	11.50	1.60 avg	0.250	4.60
			Ditch 6	Cum	1	15.50	2.20 avg	0.225	7.67
			Net Qty. Required			360.94	2.024-17	1701.90	614284.40
TOTAL COST OF PAVEMENT IN RS. (A+B)=									7,30,603.78
B) SUB TOTAL =									2,35,603.78

RWD (w)Section , Barhara
Junior Engineer
RWD (w)Section , Barhara

W.D. 10000
Assistant Engineer
RWD (w) Sub Division, Barhara

04/10/2020
Executive Engineer
RWD (w) Division, Ara

6,14284 = 0

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SEIGNIORAGE FEE								
Sl. No.	SDB SI.NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required
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	
							316.85	
			Rate Per Cum = (a)=					
			Total Cost =	Cum			316.85	360.94
								1,14,365.28
								11,436.53
							10% Seigniorage Fee :--	11,436.53

04/11/2020
A
कार्यपालक अधिकारी
ग्रामीण कार्य विभाग
कार्य प्रमाणल, आसा

Name of Road:-
District:-Carriage by Road
Detail Estimate for Restoration of traffic on Gundi to Bhakura path Under Brahara Block
Bhojpur

Block:- Barhara

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

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
Unsurfaced Gravel Road	8.22
Kachha Road	16.54

Rs
04/10/2022कार्यपालक अधिकारी
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आसा

20/09/2022

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Haulage BY TRUCK	Unit	Quantity	Rate	Amount in Rs	
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 Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 6 % on (a) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100		hour	0.40 0.29	934.30 934.30	373.72 270.95 38.68 683.35 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 Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 6 % on (a) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	Rate Per Km.	Cum				6.83
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 Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 6 % on (a) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	Rate Per Km.	Cum				8.22
14	1.3	(i)	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. Labour Mate Mazdoor (Unskilled)	Rate Per Km.	Cum				16.54
		a)	Machinery		day	0.01	305.00	3.05	
		b)	Truck		day	0.25	287.00	71.75	
		c)	Overheads 6 % on (a+b)		hour	0.33	934.30	308.32	
		d)	Contractor's profit @ 10% on (a+b+c)					22.99	
			Cost for 2000 Nos. = a+b+c+d					40.61	
			Rate for 1000 bricks = (a+b+c+d)/2					446.72	
				Total Cost	no.			223.36	
								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. Labour Mate Mazdoor (Unskilled) Machinery Truck Overheads 6 % on (a+b) Contractor's profit @ 10% on (a+b+c) Cost for 2000 Nos. = a+b+c+d Rate for 1000 bricks = (a+b+c+d)/2				
		a)		day	0.01	305.00	3.05
		b)		day	0.25	287.00	71.75
		c)		hour	0.33	934.30	308.32
		d)					22.99
							40.61
							446.72
							223.36
				Total Cost	no.		
							223.36
							446.72
			Total Lodging & Unloading of Brick Per 1000 = 223.36 + 223.36 =				
			BRICK BATS				
11.9		RCD	Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L For 1 cum = 1.5cum Labour Mazdoor (Unskilled) Material Brick Bats Carriage Cost No. of Bricks Per Cum 300 (850 for 100cft)				
		a)		day	2.00	287.00	574.00
		b)		no.	1.50	1108.00	1,662.00
		c)		no.	450.00	0.704	316.85
							2,552.85
							1,701.90
				Total Cost			
				A) Rate Per Cum			
		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/I				
		a)	UNIT = Per Cum Taking Output = 2.832cum Labour Mazdoor (Unskilled) Overheads @ 6 % on (a+b+C) Rate for 2.832 cum				
				day	3.00	287.00	861.00
							51.66
							912.66
							322.27
				B) Rate Per Cum			
				Total Cost of Brick Bat per cum(A+B)	cum		
							2024.17

कार्यपालक अभियंता
प्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

04/10/2020

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 आरा, कोइलवर एवं बडहरा प्रखण्डों के अन्तर्गत वर्ष 2020 के बाद एवं अतिवृष्टि से क्षतिग्रस्त निम्नलिखित पथों के Temporary Restoration वाले कार्य रथलों का निरीक्षण किया गया एवं उन पथों को Motorable पाया गया।

SI No.	Name of Road	Length (In K.M)	Block
1	Gidha Mokhalisa to Birampur Khesarahiya Bagh Majhuwan Path	10.00	Koilwar
2	Traffic on Gundi to Bhakura path	4.80	Barhara
3	Traffic on Buxer Patna bypass road to Chitrash hote hueGundi path	7.00	Ara
4	Traffic on Ara Salempur PWD path to Sukalpura via Dariyapur path	4.00	Ara
5	Traffic on Koilwar Babhua PWD road to Manachak road	2.00	Koilwar

13/02/2020
24/12/2020
Koilwar

13/02/2020
24/12/2020
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रगण्डल, पीरो।

13/02/2020
24/12/2020
कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रगण्डल, आरा