



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

FDR

STATE :- BIHAR
DISTRICT :- Bhojpur
BLOCK :- Ara

NAME OF ROAD :- Detailed Estimate For Restoration Of Traffic
of Buxer Patna Bypass Road To Chitrasen
hote hue Gundi under Ara Block

TOTAL COST OF CONSTRUCTION :- Rs. ~~12.003~~ Lacs

TOTAL COST OF PROJECT :- Rs. ~~12.003~~ ^{10.878} Lacs

SUBMITTED BY:

EXECUTIVE ENGINEER
RWD (W) DIVISION, ARA
BHOJPUR

तकनीकी प्रतिवेदन

जिला :- भोजपुर (आरा)

प्रखण्ड :- आरा

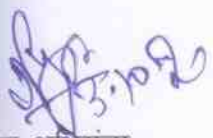
योजना का नाम :- बक्सर पटना बाईपास रोड तू चित्रसेन होते हुये गुंडई का यातायात चालू रखने के कार्य।

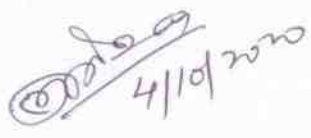
पथ की कुल लम्बाई :- 7.0 कि०मी०

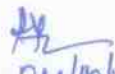
प्राक्कलित राशि :- 12.003 लाख

प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया है। जिसकी प्राक्कलित राशि12.003 लाख....है। भारी वर्षा के कारण पथ पर जल जमाव हो गया गया बालू से लदे भारी वाहन के कारण पथ बन्द होने की स्थिति में हो गया है। यातायात सुचारु रूप से कायम रखने हेतु ब्रीक बैटस के टुकड़े से गढढो को भरने का प्रावधान इस प्राक्कलन में किया गया है। यह प्राक्कलन कार्यपालक अभियंता ग्रामीण कार्य विभाग, कार्य प्रमण्डल, आरा के निर्देशानुसार तैयार किया गया

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


कनिय अभियंता
ग्रा० क० वि०
आरा


सहायक अभियंता
ग्रा० क० वि०
कार्य अवर प्रमंडल, आरा


कार्यपालक अभियंता
ग्रा० क० वि०
कार्य प्रमंडल, आरा

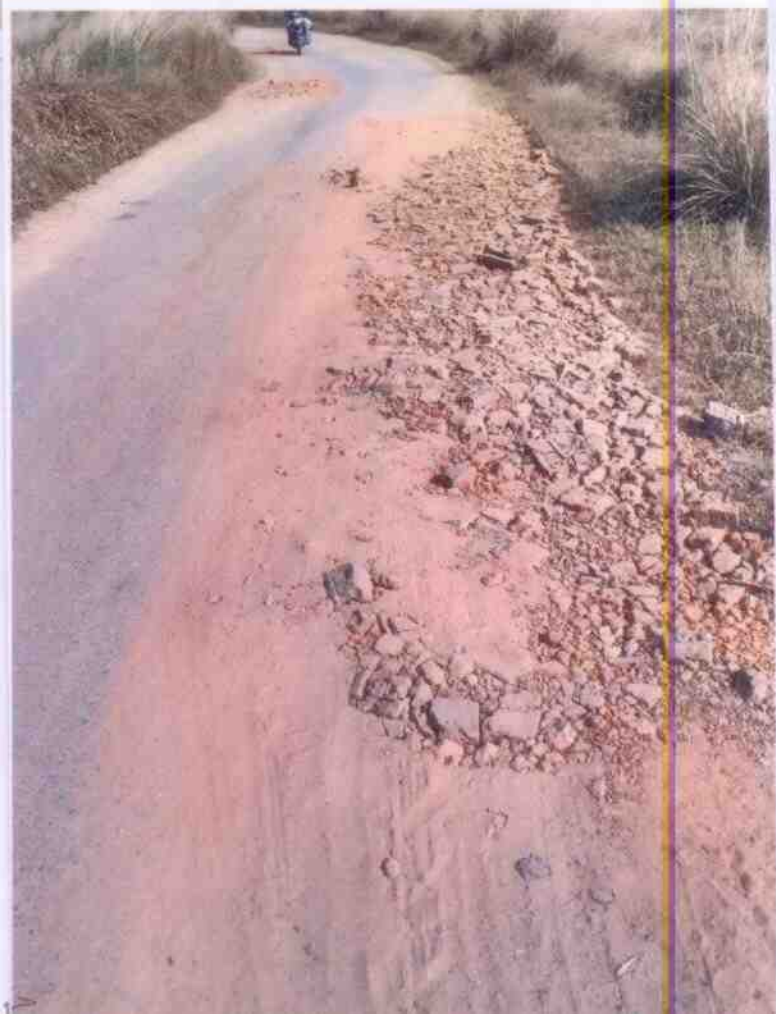
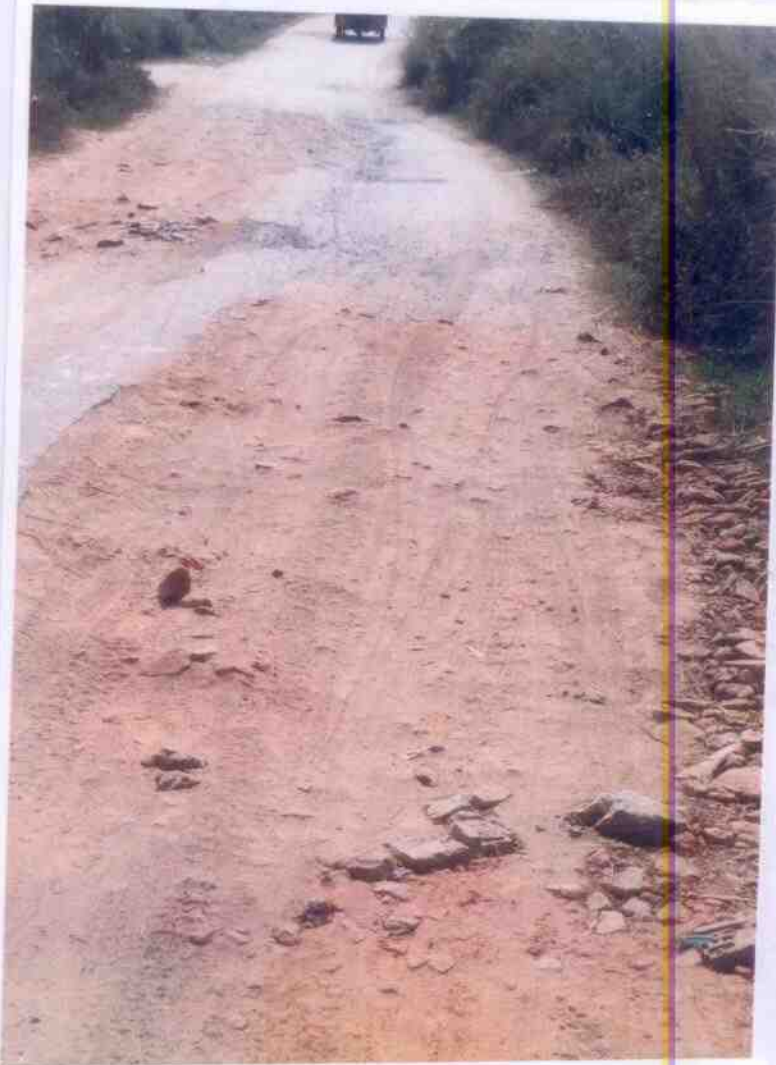


3/10/20
20

4/10/20

4/10/20

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा



2010 7

25

FDR

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Ara

District:--Bhojpur

Name of Road:--

Detailed Estimate For Restoration Of Traffic of Buxer Patna
Bypass Road To Chitrasen hote hue Gundi under Ara Block

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	10.878 12.003 Lacs
	Sub Total= (A)	12.003 Lacs
	TOTAL cost of project	12.003 Lacs

10.878 / 12.003


Junior Engineer
RWD (w)Section , Ara


Asstt. Engineer
RWD (w)Sub Division , Ara


Executive Engineer
RWD (w) Division, Ara

CS B/S/KR
24/12/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, पीरो (भोजपुर)

Technically approved for Rs 10.878 / 12.003 / Rupees
Ten / 12.003 Eighty Seven Thousand
Eight Hundred) only,


Superintending Engineer
Rural Works Department
Works Circle, Ara

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Restoration Of Traffic of Buxer Patna Bypass
Road To Chitrasen hote hue Gundi under Ara Block

DISTRICT

Bhojpur

BLOCK

Ara

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BAT	8.80869 - 10.477
	SUB TOTAL OF PAVEMENT COST IN LACS =	8.809 - 10.477
	Sub Total ` :-	8.809 - 10.477
	12% GST on Total Amount :-	1.057 - 1.257
	1% Lab Cess :-	0.880 - 0.105
	Seigniorage Fee @ 10%	0.132 - 0.164
	Total Constriction Cost (including GST and Labour Cess) (A) :-	10.878 - 12.003
	TOTAL COST OF PROJECT IN LACS(including GST 12% & 1% Lab Cess)(A+B+C) :-	10.878 - 12.003

Junior Engineer

RWD (w)Section , Ara

Assistant Engineer

RWD (w)Sub Division , Ara

Executive Engineer

RWD (w)

Division, Ara

9/3 (BPKSH)
24/12/2020
कार्यपालक अभियंता
व्यापीण कार्य विभाग
कार्य प्रमंडल, पीरो (भोजपुर)

Cost Estimate for Road Work

No.	SDB SL	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
SUB HEAD : Brick Bat Filling											
Brick Bats											
Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L											
			KM 1								
			Ditch 1 cum		1.00	15.80 Avg.	1.200	0.250	4.74		
			Ditch 2 cum		1.00	12.50 Avg.	2.200	0.200	5.50		
			Ditch 3 cum		1.00	10.50 Avg.	1.800	0.225	4.25		
			Ditch 4 cum		1.00	55.80 Avg.	2.500	0.200	27.90		
			Ditch 5 cum		1.00	45.50 Avg.	3.500	0.300	47.78		
			Ditch 6 cum		1.00	18.80 Avg.	2.200	0.225	9.31		
			Ditch 7 cum		1.00	35.50 Avg.	1.800	0.200	12.78		
			Ditch 8 cum		1.00	115.50 Avg.	2.200	0.200	50.82		
			Ditch 9 cum		1.00	55.80 Avg.	1.600	0.150	13.39		
			Ditch 10 cum		1.00	65.50 Avg.	2.500	0.200	32.75		
			Ditch 11 cum		1.00	25.50 Avg.	1.600	0.250	10.20		
			Ditch 12 cum		1.00	18.50 Avg.	2.600	0.300	14.43		
			Ditch 13 cum		1.00	28.30 Avg.	1.800	0.250	12.74		
			Ditch 14 cum		1.00	12.80 Avg.	2.600	0.250	8.32		
			Ditch 15 cum		1.00	38.50 Avg.	1.500	0.200	11.55		
			Ditch 16 cum		1.00	48.50 Avg.	2.200	0.250	26.68		
			Ditch 17 cum		1.00	35.20 Avg.	1.800	0.200	12.67		
			Ditch 18 cum		1.00	45.80 Avg.	2.400	0.300	32.98		
			Ditch 19 cum		1.00	10.80 Avg.	3.000	0.250	8.10		
			Ditch 20 cum		1.00	31.80 Avg.	2.500	0.200	15.90		
			Ditch 21 cum		1.00	30.50 Avg.	2.000	0.300	18.30		
			Ditch 22 cum		1.00	14.50 Avg.	2.100	0.250	7.61		
			Ditch 23 cum		1.00	28.80 Avg.	2.300	0.150	9.94		
			Ditch 24 cum		1.00	55.40 Avg.	2.100	0.200	23.27		
			Ditch 25 cum		1.00	15.80 Avg.	2.500	0.150	5.93		

Cost Estimate for Road Work

[illegible]

Junior Engineer
RWD (w)Section , Ara

20/01/2020

Assistant Engineer
RWD (w) Sub Division, Ara

242
04/10/2020
Executive Engineer
RWD (w) Division, Ara

SDB Sl. No	MORD Ref. No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
RCD		Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L							
		Unit = cum							
		Material							
		Brick Bats	Nos	450.00	0.70	316.80	517.583	1,63,970.29	
						316.80	517.58	1,63,970.29	16,397.03
10% Seigniorage Fee :--									16,397.03

20/9/2020

20/9/2020

20/9/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

Analysis for Carriage by Road

Detailed Estimate For Restoration Of Traffic of Buxer Patna Bypass Road To Chitrasen hote hue Gundi under Ara Block
 District:- Bhojpur Block :- Ara

No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Head	Total
1	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$	406.10		Rs. 663.50

* Subjected to Verification of Lead

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

20/04/2020

20/04/2020

24/10/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

Analysis of Rates (FORMAT F8)

Sl. No.	SDB 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
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			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
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			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
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			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

[Handwritten signature]
3.10.20

[Handwritten signature]
4/10/2020

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
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)				0.00
			Cost for 2000 Nos. = a+b+c+d				406.11
			Rate for 1000 bricks = (a+b+c+d)/2				203.05
			Total Cost	no.			203.05
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)				0.00
			Cost for 2000 Nos. = a+b+c+d				406.11
			Rate for 1000 bricks = (a+b+c+d)/2				203.05
			Total Cost	no.			203.05
			Total Loding & Unloading of Brick Per 1000				= 203.05 + 203.05 =
							406.10
	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 (850 for 100cft)	no.	450.00	0.704	316.80
			Total Cost				2,552.80
			A) Rate Per Cum				1,701.87
	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)	cum			2024.14

[Signature]
3.10.20

[Signature]
4/10/2020