



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 :- Koilwar

NAME OF ROAD :- Detailed Estimate For Restoration Of Traffic
of Ara Babuaa PWD Path To Mnachak under
Koilwar Block

TOTAL COST OF CONSTRUCTION :- Rs. 7.814 Lacs

TOTAL COST OF PROJECT :- ~~Rs. 7.814 Lacs~~
6.566

SUBMITTED BY:

EXECUTIVE ENGINEER
RWD (W) DIVISION, ARA
BHOJPUR

तकनीकी प्रतिवेदन

जिला :- भोजपुर (आरा)
प्रखण्ड :- कोलवर
प्राक्कलन का नाम :- आरा बनुया P.W.D पथ से ~~मनाचक~~ का यातायात चालू रखने के कार्य।
पथ की कुल लम्बाई :- 2.0 कि०मी०
प्राक्कलित राशि :- 7.814 lacs

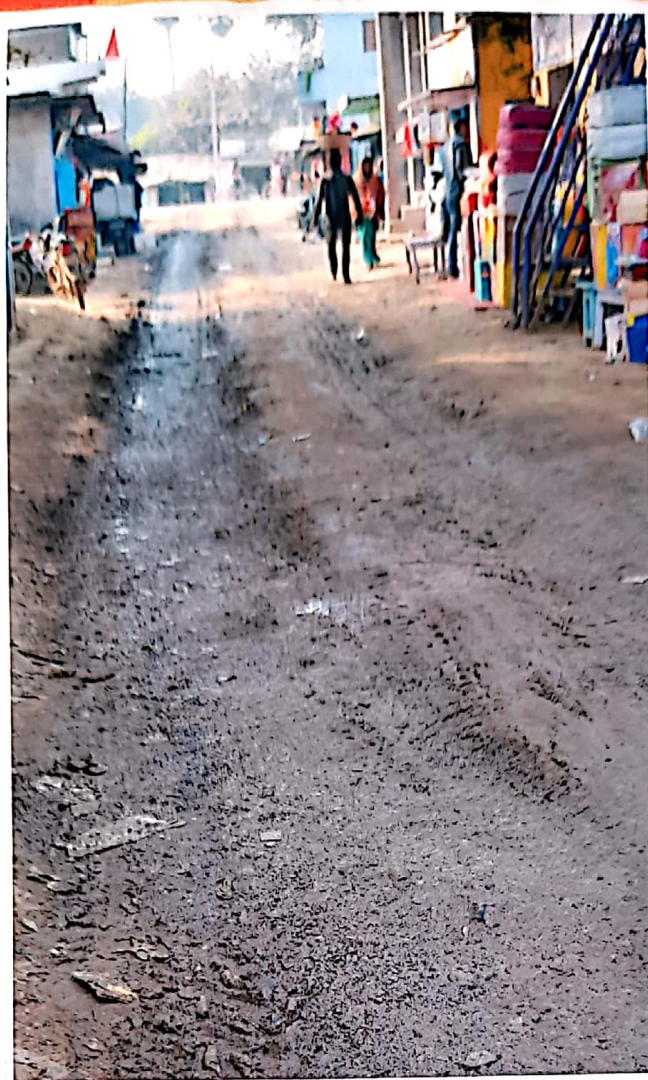
प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया है। जिसकी प्राक्कलित राशि7.814 लाख.... है। भारी वर्षा के कारण पथ पर जल जमाव हो गया गया बालू से लदे भारी वाहन के कारण पथ बन्द होने की स्थिति में हो गया है। यातायात सुचारु रूप से कायम रखने हेतु ग्रीक बैटस के टुकड़े से गड्ढों को भरने का प्रावधान इस प्राक्कलन 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।

13/10/2020
कनिष्ठ अभियंता
ग्रा० क० वि०
कोलवर

5/11/2020
सहायक अभियंता
ग्रा० क० वि०
कार्य अवर प्रमंडल, कोलवर

05/10/2020
कार्यपालक अभियंता
ग्रा० क० वि०
कार्य प्रमंडल, आरा



15/10
24/10/2020
JKP

24/10/2020
JK

15/10
24/10/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा



8/10/20
05/10/20
25/10/20

05/10/20
25/10/20

05/10/20
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

EDR
YEAR (2020 - 2021)
GENERAL ABSTRACT OF COST

Block:--Koilwar

District:--Bhojpur

Name of Road:--

Detailed Estimate For Restoration Of Traffic of Ara Babuaa
PWD Path To Anachak under Koilwar Block

SL. No.	Item of Work	Amount
A		6.566
	TOTAL COST OF CONSTRUCTION	7.814 Lacs
	Sub Total= (A)	7.814 Lacs
	TOTAL cost of project	7.814 Lacs

6.566 Lacs

13/10/2020
Junior Engineer
RWD (w) Section, Koilwar

5/10/2020
Asstt. Engineer
RWD (w) Sub Division, Koilwar

5/10/2020
Executive Engineer
RWD (w) Division, Ara

24/12/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, पीछे (भोजपुर)

Technically approved for Rs. 6.566 Lacs / Rupees
Six Lacs fifty Six Thousand Six
hundred only

Super. Sdng Engineer
Rural Works Department
Works Circle, ARA

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Restoration Of Traffic of Ara Babuaa PWD
Path To Anachak under Koilwar Block

DISTRICT

Bhojpur

BLOCK

Koilwar

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BAT	5.73482 6.821
	SUB TOTAL OF PAVEMENT COST IN LACS =	5.735 6.821
	Sub Total :-	5.735 6.821
	12% GST on Total Amount :-	0.688 0.819
	1% Lab Cess :-	0.057 0.068
	Seigniorage Fee @ 10%	0.086 0.107
	Total Constriction Cost (including GST and Labour Cess) (A) :-	6.566 7.814
	TOTAL COST OF PROJECT IN LACS(including GST 12% & 1% Lab Cess)(A+B+C) :-	6.566 7.814

Junior Engineer

RWD (w)Section , Koilwar

Assistant Engineer

RWD (w)Sub Division , Koilwar

Executive Engineer

RWD (w)
Division, Ara

9/1 BJSKsh
24/12/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, पीरो (भोजपुर)

Cost Estimate for Road Work

FORMAT 6

Cost Estimate for Road Work											FORMAT F6	
Sl. No.	SDR Sl. No	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)	
1	SUB HEAD : Brick Bat Filling											
	Brick Bats											
Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L												
1st km												
			cum	1.00	20.0	1.500	0.600	18.00				
			cum	1.00	15.0	2.100	0.500	15.75				
			cum	1.00	10.0	3.000	0.600	18.00				
			cum	1.00	5.7	1.600	0.400	3.65				
			cum	1.00	21.0	2.200	0.600	27.72				
			cum	1.00	10.5	1.600	0.500	8.40				
			cum	1.00	11.6	1.500	0.600	10.44				
			cum	1.00	25.5	2.000	0.600	30.60				
			cum	1.00	7.5	1.600	0.300	3.60				
			cum	1.00	12.7	2.200	0.400	11.18				
			cum	1.00	8.5	1.600	0.500	6.80				
			cum	1.00	12.5	1.400	0.600	10.50				
			cum	1.00	7.5	1.600	0.800	9.60				
			cum	1.00	14.5	2.100	0.600	18.27				
			cum	1.00	11.6	1.500	0.500	8.70				
			cum	1.00	6.5	2.500	0.600	9.75				
			cum	1.00	16.4	1.800	0.500	14.76				
			cum	1.00	8.8	2.300	0.600	12.14				
			cum	1.00	28.5	1.600	0.500	22.80				
			cum	1.00	15.5	1.700	0.600	15.81				
			cum	1.00	15.0	3.000	0.500	22.50				
			cum	1.00	12.5	2.500	0.600	18.75				
			cum	1.00	7.5	1.600	0.700	8.40				
			cum	1.00	11.8	2.300	0.400	10.86				
SUB TOTAL OF CRUST =										1701.90	573,489	
TOTAL COST OF PAVEMENT IN RS. =										2,024.14	6,82,084.52	
											573,489	
											6,82,084.52	
											573,489	
											6,82,084.52	

24/10/2020
Junior Engineer
RWD (w) Section, Kailwar

24/10/2020
Assistant Engineer
RWD (w) Sub Division, Kailwar

24/10/2020
Executive Engineer
RWD (w) Division, Ara

Sl. No.	SDB Sl. No	ORD No.	Description	Unit	Quantity	Rate	Amount (In 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							
			Material							
			Brick Bats	Nos	450.00	0.70	316.80	336.974	1,06,753.36	
							316.80	336.97	1,06,753.36	10,675.34
10% Seigniorage Fee :-										10,675.34

श्री ००००००००
०५/१०/२०२०
०५/१०/२०२०

०५/१०/२०२०
AC

०५/१०/२०२०

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

Name of Road:-

Detailed Estimate for Restoration of Traffic of Ara Bahua PWD Path To Anachak under Kollwar Block

District:-

Block :- Kollwar

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha			
1	Brick	1000 Nos	Local	8.00 2.00 x 6.83	8.00 2.00 x 16.54	406.10		Rs. 663.50
				7.00 Km = Rs 191.24				
				x 1.00 Km = Rs 66.16				

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	8.00
Insurance Gravel Road	8.22
Katcha Road	16.54

5/10/2020

5/10/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

5/10/2020

Analysis of Rates (FORMAT F8)

Sl. No.	SDH 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 Empty return trip b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) /100	hour hour	0.40 0.29	934.30 934.30	373.72 270.95 38.68 0.00 683.35 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 Empty return trip b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) /100	hour hour	0.50 0.33	934.30 934.30	467.15 308.32 46.53 0.00 822.00 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 Empty return trip b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) /100	hour hour	1.00 0.67	934.30 934.30	934.30 625.98 93.62 0.00 1653.90 16.54
				Rate Per Km.	Cum		16.54

B/w
4/10/2020
J2

05/10/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

Sl. No.	SDBSL 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	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.33	934.30	308.32
			Truck				22.99
		c)	Overheads 6 % on (a+b)				0.00
		d)	Contractor's profit @ 10% on (a+b+c)				406.11
			Cost for 2000 Nos. = a+b+c+d				203.05
			Rate for 1000 bricks = (a+b+c+d)/2				
			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	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.33	934.30	308.32
			Truck				22.99
		c)	Overheads 6 % on (a+b)				0.00
		d)	Contractor's profit @ 10% on (a+b+c)				406.11
			Cost for 2000 Nos. = a+b+c+d				203.05
			Rate for 1000 bricks = (a+b+c+d)/2				
			Total Cost	no.			203.05
			Total Loding & Unloading of Brick Per 1000 = 203.05 + 203.05 =				406.10
11.9	RCD		BRICK BATS				
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L For 1 cum = 1.5cum				
		a)	Labour	day	2.00	287.00	574.00
			Mazdoor (Unskilled)				
		b)	Material	no.	1.50	1108.00	1,662.00
			Brick Bats				
		c)	Carriage Cost	no.	450.00	0.704	316.80
			No. of Bricks Per Cum (850 for 100cft)				2,552.80
			Total Cost				1,701.87
			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/L				
			UNIT = Per Cum Taking Output = 2.832cum				
		a)	Labour	day	3.00	287.00	861.00
			Mazdoor (Unskilled)				51.66
			Overheads @ 6 % on (a+b+C)				912.66
			Rate for 2.832 cum				322.27
			B) Rate Per Cum				
			Total Cost of Brick Bat per cum(A+B)	cum			2024.14

13/10/2022
5/10/2022
12/10/2022

5/10/2022
A

05/10/2022

नगरपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, काठमाडौं