



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 :- Ara

**Detail Estimate for Restoration of traffic on Ara
Salempur PWD Path to Sukalpura Vai Dariyapur Path**

TOTAL COST OF RESTORATION :- Rs. 3.608 Lacs

TOTAL COST OF PROJECT :- Rs. 3.608 Lacs

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

तकनीकी प्रतिवेदन

जिला-भोजपुर (आरा)

प्रखंड- आरा

योजना का नाम-आरा सलैमपुर पी0डब्लू0डी0 पथ से शुकुलपुरा भाया दरियापुर का यातायात चालू रखने का कार्य।

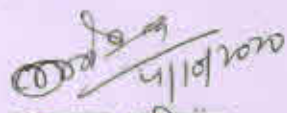
पथ की कुल लंबाई-4.00 कि0मी0

प्राक्कलित राशि-3.608 लाख रू0

प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया है। जिसकी प्राक्कलित राशि 3.608 लाख रू0 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 सूचारु रूप से कायम रखने हेतु 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। यह प्राक्कलन कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, आरा के निर्देशानुसार तैयार किया गया है।


कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, आरा


सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल आरा


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, आरा।



3/10/20

5/10/2020
AG

04/10/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा



3.10.9

4/10/2009 24/10/2009

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कर्म बन्दोल, आरा

F.D.R

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block--Ara

District:--Bhojpur

Name of Road:--

Detail Estimate for Restoration of traffic on Ara Salempur
PWD Path to Sukalpura Vai Dariyapur Path

SL. No.	Item of Work	Amount
A		3.031
	TOTAL COST OF RESTORATION	3.608 Lacs
	Sub Total= (A)	3.608 Lacs
		3.031
	TOTAL cost of project	3.608 Lacs

3.031 lacs


Junior Engineer
RWD (w)Section, Ara


Asstt. Engineer
RWD (w)Sub Division, Ara


Executive Engineer
RWD (w) Division, Ara

45 B/K/SN
24/12/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, पीरो (भोजपुर)

Technically approved for Rs. 3.031 lacs (Rupees
Three lacs Three Thousand
one hundred) only. →


Superintending Engineer
Rural Works Department
Works Circle, ARA
24/12/2020

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detail Estimate for Restoration of traffic on Ara Salempur PWD Path
to Sukalpura Vai Dariyapur Path

DISTRICT

Bhojpur

BLOCK

Ara

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BAT'S WORK	2.647 3.149
		2.647 3.149
	12% GST on Total Amount :-	0.318 0.378
	1% Lab Cess :-	0.026 0.031
	Seigniorage Fee :-	0.040 0.049
	Total Constriction Cost (including GST and Labour Cess & SF) (A) :-	3.031 3.608
	TOTAL COST OF PROJECT IN LACS(including GST 12% & 1% Lab Cess & SF) :-	3.031 3.608

Junior Engineer

RWD (w)Section , Ara

Assistant Engineer

RWD (w)Sub Division , Ara

Executive Engineer

RWD (w) Division,
Ara

C/S B/SKsh
24/12/2020
कार्यपालक अभियंता
कामीण कार्य विभाग
कार्य प्रमंडल, पीरो (भोजपुर)

SEIGNIORAGE FEE

Sl. No.	Item 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							
	a)	Material							
		Brick Bats	Nos.	450.00	0.70	316.85			
		Rate Per Cum = (a) =				316.85			
		Total Cost =	Cum			316.85	155.55	49,286.64	4,928.66
10% Seigniorage Fee :-									4,928.66

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04/10/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, आरा

Carriage by Road

Detail Estimate for Restoration of traffic on Ara Salempur PWD Path to Sukalpura Vai Daryapur Path

Name of Road:-

District:-

Bhojpur

Block :- Ara

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			
7	Brick	1000 Nos Local		8.00	8.00			
				$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$	446.72		
								Rs. 704.12

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

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

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4/1/2020

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04/10/2020
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
काय प्रमडल, 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)				22.58
			Cost for 100 t-km = a+b+c				663.25
			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
7	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/I					
			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			2024.17	

13-10-20