



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROAD PROJECT

BIHAR RURAL ROAD DEVELOPMENT AGENCY (BRRDA)

Head :- F.D.R.
YEAR 2021-22

STATE
DISTRICT
BLOCK
DIVISION

BIHAR
SUPAUL
PIPRA
TRIVENIGANJ

DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM
PATHRA RATOU LI PMGSY PATH TO LAVTOL NAHAR TAK

Actual Length of Road	=	2.154KM
Flood affected Length of Road	=	0.100 KM
TOTAL COST OF PAVEMENT	Rs	478359.04
TOTAL PROJECT COST	Rs	478359.04

Submitted By:
Executive Engineer
RWD (W) Division, TRIVENIGANJ

Prepared By:
Executive Engineer
RWD (W) Division, TRIVENIGANJ

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- PATHRA RATOU LI PMGSY PATH TO LAVTOL NAHAR
TAK

DIVISION :- TRIVENIGANJ

BLOCK :- PIPRA

Actual Length of Road :- 2.154Km

Flood affected Length of Road :- 0.100 Km

Sl. No.	DESCRIPTION	AMOUNT (In Rs)
1	Brick bats	277508.60
2	Hume pipe 1000 mm dia (HPC)	121259.70
	TOTAL	398768.30
	Add:- Labour Cess@1% amt.=	3987.68
	Add:GST@12%on amt.=	47852.20
	Add: S.F.@10%on Material(Brick Bats)=	27750.86
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	478359.04

478400/-

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Junior Engineer

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Asstt. Engineer

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Executive Engineer

R.W.D. Works Division, TRIVENIGAN. R.W.D. Works Division, TRIVENIGANJ R.W.D. Works Division, TRIVENIGANJ

T-S is accorded in compliance of EIC LN 1890 Dtd 22-04-22
Technically sanctioned amounting to Rs 478400/- (Rupees
four lac seventy eight thousand, four hundred only)

[Signature]
29/06/22

Superintending Engineer
Rural Works Department
Works Circle Marhempura

NAME OF ROAD :-		PATHRA RATOULI PMGSY PATH TO LAVTOL NAHAR TAK			
BLOCK :-		PIPRA			
DIVISION :-		TRIVENIGANJ			
DISTRICT :-		SUPAUL			
Sl No.	Description	Unit	Quantity (m3)	Rate (Rs)	Amount (Rs)
1	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.	Cum	144.32	1922.87	277508.60
2	Supply, laying and Carriage of of hume pipe 1000 mm dia (HPC), all complete job.	meter	30.00	4041.99	121259.70

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Junior Engineer
Works Division, TRIVENIGA

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Asstt. Engineer
R.W.D. Works Division, TRIVENIGANJ

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Executive Engineer
R.W.D. Works Division, TRIVENIGANJ

NAME OF ROAD:-

Analysis for Carriage by Road & Rail PATHRA RATOULI PMGSY PATH TO LAVTOL NAHAR TAK

District:-

SUPAUL

Block :- PIPRA

Sl No	Item with Source	Unit	Source	Pucka / Surface		Katcha		Loading & Unloading Cost	Carriage Cost by Rail Head	Total	Min Total
1	Stone Metal Gr-I & Gr-II	Cum	Shekhpura	8.00 4.59	x 8.20 x 29.00 Km = Rs 414.47	8.00 4.59	x 19.80 x 0.00 Km = Rs 0.00	89.90	1243.54	1747.91	Rs. 1747.91
2	Stone Metal Gr-III/GSB	Cum	Shekhpura	8.00 4.99	x 8.20 x 29.00 Km = Rs 381.24	8.00 4.99	x 19.80 x 0.00 Km = Rs 0.00	89.90	1166.59	1637.73	Rs. 1637.73
3	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 4.99	x 8.20 x 29.00 Km = Rs 381.24	8.00 4.99	x 19.80 x 0.00 Km = Rs 0.00	89.90	1166.59	1637.73	Rs. 1637.73
4	Stone Boulder	Cum	Shekhpura	8.00 4.80	x 8.20 x 29.00 Km = Rs 396.33	8.00 4.80	x 19.80 x 0.00 Km = Rs 0.00	89.90	1201.54	1687.77	Rs. 1687.77
5	Course Sand	Cum	Jagdishpur	8.00 4.99	x 7.47 x 161.00 Km = Rs 1928.13	8.00 4.99	x 18.09 x 0.00 Km = Rs 0.00	104.88			Rs. 2033.01
6	Binding Material/Moorum	Cum	Shekhpura	8.00 6.00	x 7.47 x 29.00 Km = Rs 288.84	8.00 6.00	x 19.80 x 0.00 Km = Rs 0.00	104.88		393.72	Rs. 393.72
7	Local Sand	Cum	Local	8.00 4.99	x 7.47 x 2.00 Km = Rs 23.95	8.00 4.99	x 17.82 x 1.00 Km = Rs 28.57	104.88			Rs. 157.40
8	Brick	1000 Nos	Local	8.00 2.00	x 7.47 x 7.00 Km = Rs 209.16	8.00 2.00	x 18.09 x 1.00 Km = Rs 72.36	417.46			Rs. 698.98
9	Cement	MT	Local	8.00 8.00	x 7.47 x 35.00 Km = Rs 261.45	8.00 8.00	x 18.09 x 0.00 Km = Rs 0.00	299.38			Rs. 560.83
10	Steel	MT	Local	8.00 8.00	x 7.47 x 35.00 Km = Rs 261.45	8.00 8.00	x 18.09 x 0.00 Km = Rs 0.00	318.00			Rs. 579.45
11	Bitumen Emulsion	MT	Barauni	8.00 8.00	x 7.47 x 220.00 Km = Rs 1643.40	8.00 8.00	x 18.09 x 0.00 Km = Rs 0.00	344.50			Rs. 1987.90
12	Bitumen	MT	Muzaffarpur	8.00 8.00	x 7.47 x 178.00 Km = Rs 1329.66	8.00 8.00	x 18.09 x 0.00 Km = Rs 0.00	344.50			Rs. 1674.16
13	Hume Pipe (1000 mm)	M	Local	8.00 10.00	x 7.47 x 106.00 Km = Rs 633.46	8.00 10.00	x 18.09 x 0.00 Km = Rs 0.00	73.32			Rs. 706.78
14	Hume Pipe (600 mm)	M	Local	8.00 25.00	x 7.47 x 106.00 Km = Rs 253.38	8.00 25.00	x 18.09 x 0.00 Km = Rs 0.00	31.42			Rs. 284.80
15	Hume Pipe (300 mm)	M	Local	8.00 60.00	x 7.47 x 106.00 Km = Rs 105.58	8.00 60.00	x 18.09 x 0.00 Km = Rs 0.00	31.42			Rs. 137.00
16	Brick Bats	Nos	Local	3.60 2.25	x 19.63 x 5.00 Km = Rs 157.04	3.60 2.25	x 29.03 x 2.00 Km = Rs 92.90	194.82			Rs. 444.76

Subjected to Verification of Load

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	8.20	7.47
Unsurface Gravel Road	9.90	8.99
Kachha Road	19.80	18.09

Type of Road	Per Ton. Km by	Per Ton. Km by Truck
For Surface Road		19.63
Unsurface Gravel Road		24.53
Kachha Road		29.03

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Summary of Carriage Cost

Sl. No.	Particulars	Unit	Amount
1	Gr-III/GSB	Cum	1637.73
2	Stone Metal Below 40 mm	Cum	1637.73
3	Stone Chips	Cum	1637.73
4	Screening Materials	Cum	1637.73
5	Gr-II	Cum	1747.91
6	Stone Metal above 40 mm	Cum	1747.91
7	Binding Material/Moorum	Cum	393.72
8	a)Course Sand	Cum	2033.01
9	b)Course Sand at site	Cum	2183.81
10	c)Local Sand	Cum	157.4
11	d)Local Sand at site	Cum	274.25
12	Boulder	Cum	1687.77
13	a)Cement	Ton	560.83
14	a)Cement at site	Ton	5716.83
15	Bitumen (S-90)(FROM MUZAFFARPUR	Ton	1674.16
16	Bitumen Emulsion SS & RS (FROM BARAUNI)	Ton	1987.9
17	a)Hume Pipe NP 3 (600 MM DIA)	m	284.8
18	b)Hume Pipe (600 MM DIA)at site	m	1053.33
19	a)Hume Pipe NP 3 (1000 MM DIA)	m	706.78
20	b)Hume Pipe NP 3 (1000 MM DIA)at site	m	3481.28
21	Steel	Ton	579.45
22	Brick	per 1000	698.98
23	Brick Bats/Jhama metal	Cum	444.76

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24/09/22

Junior Engineer

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Asstt. Engineer

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27.6.22

Executive Engineer

R.W.D. Works Division, TRIVENIGANJ R.W.D. Works Division, TRIVENIGANJ R.W.D. Works Division, TRIVENIGANJ

जॉय प्रसिवेदन

अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-890/दिनांक-22.02.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा की अध्यक्षता में गठित चार सदस्यीय कार्यमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटेबुल कार्य के कृत कार्य मंदों की मात्रा का स्थलीय जाँच कर मापी लिया गया जो निम्न है-

क्र.सं.	प्रलंब	कार्य का नाम	किये गये कार्य का नाम	5	अनुवित
1	2	3	4	6	
1	Pipra	Jiwatch - Dubiyahi		$\begin{aligned} & \text{Localsail} - 1 \times 12.0 \text{m} \times 4.5 \text{m} \times 0.75 \text{m} + 1 \times 11.0 \text{m} \times 4.0 \text{m} \times 0.75 \text{m} \\ & + (2 \times 10 \text{m} + 1 \times 15 \text{m}) \times 4.0 \text{m} \times 0.6 \text{m} = 157.50 \text{m} \\ & \text{B/Bay} - 1 \times (10 \text{m} + 9.0 \text{m} + 12.0 \text{m} + 25.0 \text{m}) \times 4.5 \text{m} \times 0.43 \text{m} \\ & + 1 \times (3.0 \text{m} + 1.0 \text{m}) \times 2.5 \text{m} \times 0.43 \text{m} + 1 \times (10 \text{m} + 7.0 \text{m} + 9.0 \text{m} + 10 \text{m} + 11 \text{m}) \\ & \times 4.0 \text{m} \times 0.43 \text{m} + 1 \times 8.5 \text{m} \times 6.0 \text{m} \times 0.43 \text{m} = 578.85 \text{m} \end{aligned}$	
2	Pipra	Nirmali - Hatwariya		$\begin{aligned} & \text{Localsail} - (1 \times 30 \text{m} \times 3.43 \text{m} \times 0.6 \text{m}) + (1 \times 53 \text{m} + 21 \text{m}) \times 3.5 \text{m} \times 0.6 \text{m} = 217.21 \text{m} \\ & \text{B/Bay} - 1 \times (10 \text{m} + 8 \text{m} + 31.5 \text{m} + 31.0 \text{m}) \times 4.5 \text{m} \times 0.44 \text{m} \\ & + 1 \times (16 \text{m} + 31 \text{m} + 21 \text{m}) \times 2.5 \text{m} \times 0.44 \text{m} + \\ & 1 \times (62 \text{m} + 29 \text{m} + 15 \text{m} + 20 \text{m} + 30 \text{m} + 53 \text{m}) \times 4.0 \text{m} \times 0.44 \text{m} = 664.73 \text{m} \end{aligned}$	
3	Pipra	L041-Ram Nagar to Yadav Tola (ODR28)		$\begin{aligned} & \text{Localsail} - 4 \times 18.0 \text{m} \times (2.5 \text{m} + 1.5 \text{m}) / 2 \times 2.0 \text{m} + 1 \times 10 \text{m} \times 0.50 \text{m} \times 0.80 \text{m} = 292 \text{m} \\ & \text{E/C Bay} - 4 \times 18 \text{m} \times (3.5 \text{m} + 2.5 \text{m}) / 2 \times 1.25 \text{m} + 4 \times 18 \text{m} \times 4.0 \text{m} \times 0.30 \text{m} = 1258 \text{m} \\ & \text{B/Bay} - 2 \times (30 \text{m} + 20 \text{m}) \times 1.65 \text{m} \times 0.30 \text{m} + 2 \times 15 \text{m} \times 2 \times 2.5 \text{m} \times 0.30 \text{m} \\ & + 2 \times 13 \text{m} \times 3.50 \text{m} \times 0.35 \text{m} = 126.35 \text{m} \end{aligned}$	
4	Pipra	Maheshwar Singh Ke Ghar Se Lekar Pokhar Ola Hote Hue to Hatbaria Pakki Sadak Tak		$\begin{aligned} & \text{Localsail} - 1 \times (22 \text{m} + 23 \text{m} + 30 \text{m}) \times 2.5 \text{m} \times 1.5 \text{m} + 1 \times 16 \text{m} \times 35 \text{m} \times 1.75 \text{m} + 1 \times 15 \text{m} \times 2.5 \text{m} \times 1.4 \text{m} \\ & \text{B/Bay} - 2 \times 15 \text{m} \times 3 \text{m} = 90 \text{m} \\ & \text{B/Bay} - 1 \times (16 \text{m} + 15 \text{m} + 22 \text{m} + 23 \text{m} + 30 \text{m}) \times 3.0 \text{m} \times 0.50 \text{m} = 159 \text{m} \end{aligned}$	
5	Pipra	THUMAHA SIMA MEHTA TOLA MGSY SE to LITIYAH CHOWK		$\begin{aligned} & \text{E/C Bay} - 2 \times 126 \text{m} \times (3 \text{m} + 2 \text{m}) / 2 \times 1.0 \text{m} \\ & + 2 \times 80.67 \text{m} \times 4.0 \text{m} \times 0.3 \text{m} = 823.61 \text{m} \\ & = 2908 \text{ (Bay)} \end{aligned}$	
6	Pipra	Pngsy Debipati Aganbadi Se to Ramana Tola Tak		$\begin{aligned} & \text{Bambao} - 1 \times (17 \text{m} + 6 \text{m} + 14 \text{m}) \times 3.0 \text{m} = 111 \text{m} \\ & \text{E/C Bay} - 1 \times (17 \text{m} + 84 \text{m}) \times 3.0 \text{m} \times 0.30 \text{m} + 1 \times 60 \text{m} \times 3.0 \text{m} \times 0.50 \text{m} \\ & + 1 \times 14 \text{m} \times 3.0 \text{m} \times 0.42 \text{m} = 4151 \text{ Bags} \\ & \text{B/Bay} - 1 \times (17 \text{m} + 60 \text{m} + 140 \text{m} + 84 \text{m}) \times 3.0 \text{m} \times 0.30 \text{m} = 108.30 \text{m} \end{aligned}$	

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क्रमिक	प्रखंड	कार्य का नाम	किये गये कार्य का नाम	स्थल पर किये गये कार्य की मापी	अभ्युक्ति
1	2	3	4	5	6
14	Pipra	Vijay Yadav House to Sone Maharaj House		$1 \times (15n + 10n) \times 5.0n \times 1.5n = 262.50n$ $61c Bags - 2 \times 10n \times 4.0n \times 0.70n + 1 \times 15.0n \times 4.0n \times 0.75n = 101n = 356/Mg$ $51 Bags - 2 \times 10n \times 4n \times 0.3n = 24n$ $NP3 H.P. 1000mp = 12 \times 2.5n = 30n$	
15	Pipra	Pipra to Chamanagar		Already surveyed	

28/5/22
 कार्यपालक अभियंता
 ग्रामीण कार्य विभाग
 कार्य प्रमंडल, सुपौल।

28/5/22
 कार्यपालक अभियंता
 ग्रामीण कार्य विभाग
 कार्य प्रमंडल, वीरपुर।

28/5/22
 कार्यपालक अभियंता
 ग्रामीण कार्य विभाग
 कार्य प्रमंडल, त्रिवेणीगंज

28/5/22
 अधीक्षण अभियंता
 ग्रामीण कार्य विभाग
 कार्य अंचल, मधेपुरा

कार्यपालक अभियंता, कार्य प्रमंडल, त्रिवेणीगंज समिति के जॉच प्रतिवेदन के अनुसार Post facto M.B. एवं Post facto प्राक्कलन तैयार कराकर सक्षम प्राधिकार को अग्रतर कार्रवाई हेतु शीघ्र भेजे।

28/5/22
 अधीक्षण अभियंता
 ग्रामीण कार्य विभाग
 कार्य अंचल, मधेपुरा