



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Bihar Rural Development Agency (BRRDA)

Head :- F.D.R.

YEAR (2021-22)

STATE  
DISTRICT  
BLOCK  
DIVISION

BIHAR  
SUPAUL  
CHHATAPUR  
TRIVENIGANJ

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM  
BARI MASZID JHAKARGADH TO PURAB MAHADALIT TOLA VIA CHOCHAN ,  
SAH, MANSURI , MAHADALIT TOLA

Actual Length of Road	=	2.000 Km
Flood affected Length of Road	=	0.290 Km
TOTAL COST OF PAVEMENT	Rs	1,529,394
TOTAL PROJECT COST	Rs	1,529,394

Submitted By:  
Executive Engineer

Prepared By:  
Executive Engineer

Details of Road & Bridge

SlNo	Division	Block	Road/Bridge Name	Length	Damage Part Length During Flood	Restorati on Amount	FDR Fin Year
				(In Km)		(In Lakh)	
1	Triveniganj	Chhatapur	Chunni world bank to choudhary tola(sahpur), girdharpatti hat via mirrapatti.	9.3	0.72	15.96	2021-22
2	Triveniganj	Chhatapur	Mahdipur Bazar to Chatapur (Boader)	1	0.52	5.1	2021-22
3	Triveniganj	Chhatapur	Rajeshwari OP to Tamua	5.1	0.69	15.71	2021-22
4	Triveniganj	Chhatapur	L053-T01 To Narahiya (VR8)	2.6	0.35	18.07	2021-22
5	Triveniganj	Chhatapur	Harihar Path to Sohta Kachni Road with five years maintenance	12	0.7	5.6	2021-22
6	Triveniganj	Chhatapur	bus stand to Bhatta Bari Road with five years maintenance.	3.2	0.37	18	2021-22
7	Triveniganj	Chhatapur	3. Construction of road from ChhatapurAnant Chowkto Bhatta Bari Road witfive years maintenance.	1.5	0.34	30	2021-22
8	Triveniganj	Chhatapur	2.Construction of road from Raghunathpurto Faisya Kothi Road with five years maintenance.	9.4	0.759	46.12	2021-22
9	Triveniganj	Chhatapur	1.Construction of road from Chunni to Charney world Bank road with filve year maintenance	6.3	1.6	2.66	2021-22
10	Triveniganj	Chhatapur	2. Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance	7.8	0.42	18.15	2021-22
11	Triveniganj	Chhatapur	3. Construction of road from Lalit gram Railway Station to Mahadev Patti with five year maintenance	2.1	0.45	28	2021-22
12	Triveniganj	Chhatapur	Near House of Bishwanath Thakur TO Brahaman Tola, Pratapganj Pariyahi Road Middle MMGSY[SC]hool Lalganj	2	0.45	15.62	2021-22
13	Triveniganj	Chhatapur	State Highway Se Ramjanki Chowk Middle School Chapin to Aarriya Sima Birpur Path Via Ayub 72 RD Subki mandal tola middle school thuthi	8.2	0.45	28.05	2021-22
14	Triveniganj	Chhatapur	Pariyahi Pradhanmantri Sadak Se Pachim Ranipatti Nahar Ke Daya Bank to Udakishunganj SHW Nahar Pul Tak	5	1.22	12.28	2021-22
15	Triveniganj	Chhatapur	Bari Maszid Jhakhargadh TO Purab Mahadalit Tola Via Chohan, Sah, Mansuri, Mahadalit Tola	2	0.25	11.81	2021-22
16	Triveniganj	Chhatapur	Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	3.2	0.41	45	2021-22
17	Triveniganj	Chhatapur	31 No Road to Darhariya Sima PMGSY via Pariyadhar	3.5	1.2	20.67	2021-22

# जॉच प्रतिवेदन

प्रस्तावित ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-1890 दिनांक-22.04.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मधेपुरा की अध्यक्षता में गठित चार सदस्यीय समिति द्वारा प्रमंडल त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाड़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटेबुल कार्य के कृत कार्य मदों की मात्रा का स्थानीय जॉच संबंधित सहायक अभियंता एवं कनिष्ठ अभियंता के साथ लिया गया जो निम्न है :-

Location of Road :- BADI MASZID JHAKHARGADH TO PURAB MAHADALIT TOLA VIA CHOHAN SAH MANSURI MA

Division Name :- Rural Works Department, Works Division, Triveniganj

Loc :- Chhatapur

Sl No.	Items of Works	Nos.	L (m)	B (m)	D (m) IN (A.S.)	Quantity (m3)
1	BAMBOO PILLING					
		1	26.50	3.00	4.00	318.00
		1	8.00	2.00	4.00	64.00
		1	19.50	3.00	4.00	234.00
		1	14.00	2.00	4.00	112.00
		Total Qty =				728.00
2	Supplying of EC bag.					
		1	20.00	2.00	1.50	60.00
		1	20.00	2.00	1.00	40.00
		1	32.76	2.00	0.63	41.58
					TOTAL=	141.58
		141.58/0.34				4165.00
				NO OF BAGS/100=		4165
3	Geo bags					
		2	75	2	0.9	135
					135/0.076	1777
					TOTAL=	1777
4	brick bats					
		3	25	2.5	0.6	112.5
		7	30	2.5	0.3	22.5
		2	30.00	2.2	0.30	49.50
		5	25.00	2.5	0.30	93.75
		Total Qty. =				278.25

157.5  
39.6

403.5

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, त्रिवेणीगंज

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जॉच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राकफलन तैयार कराकर सक्षम प्रकार को अग्रतर कार्रवाई हेतु शीघ्र भेजे।

अधीक्षण अभियंता सह अध्यक्ष जॉच समिति  
ग्रामीण कार्य विभाग  
कार्य अंचल, मधेपुरा

# SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD  
FROM BARI MASZID JHAKARGADII TO PURAB MAHADALIT TOLA  
VIA CHOHAN, SAIL, MANSURI, MAHADALIT TOLA

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 2.000 Km

Flood Affected Length of Road :- 0.290 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	761,456.52
3	BAMBOO PILE	33,389.66
4	BAMBOO SUPPLY	22,794.73
5	EC BAG	150,361.66
6	GEO BAG	305,797.86
7	GRANULAR SUB BASE	-
8	HUME PIPE	-
	Total Cost =	1,273,800.44
	Add:-Labour Cess @1% amt. =	12,738.00
	Add:GST@12% on amt. =	152,856.05
	Add:S.F.@ 10% on Material =	90,000.00
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	1,529,394

*AK*  
15/6/22  
Junior Engineer  
RWD (W) Division, Triveniganj

*Sd/-*  
15/6/22  
Assistant Engineer  
RWD (W) Division, Triveniganj  
*Chatterjee*

*17.6.22*  
Executive Engineer  
RWD (W) Division, Triveniganj

Vide letter No 3170-4 (R/O) dated (Date) 23-29/12/2019-4849  
dt- 07/12/2021

Technically Sanctioned for Rs-15,29394.00/-  
(that is fifteen lakh twenty nine thousand three hundred  
ninety four rupees only)

*11/29/06/22*  
Superintending Engineer  
Rural Works Department  
Works Circle Madhe

Details of Measurement						
कार्य का ब्यौरा Deatail of Work		संख्या No	पैमाईस			मात्रा
			लम्बाई In m.	चौड़ाई In m.	ऊँचाई In m.	
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORRY RESTORATION OF ROAD FROM BARI MASZID JIAKARGADH TO PURAB MAHADALIT TOLA VIA CHOJIAN , SAH, MANSURI , MAHADALIT TOLA				
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification					
CH-in		1	0	5.500	0.60	0.000
Item No. 2	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge					0.000
CH-in		3	25	2.500	0.600	112.50
CH-in		1	30	2.500	0.300	22.50
CH-in		2	30	2.200	0.300	39.60
CH-in		5	25	2.500	0.300	93.75
Item No. 3	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I					396.000
CH-in						268.350
CH-in		3	26.5		4.00	318.000
CH-in		2	8		4.00	64.000
CH-in		3	19.5		4.00	234.000
For Bamboo piling 1.25m		2	14		4.00	112.000
Item No. 6	Supply of Bamboo at site.					728.000

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15/6/22  
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15/06/2022  
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Executive Engineer  
Rural Works Department  
Work Division Trivenigani

# Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM BARI MASZID JHAKARGADH TO PURAB MAHADALIT TOLA VIA CHOHAN, SAH, MANSURI, MAHADALIT TOLA BLOCK :- CHHATAPUR

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	0.00	Cum	549.11	0.00
2	A/R	Providing and laying of Brick bat obtained from chimney with mechanical means with all spreading, grading to required slope and compacted at OMC to achieve required density with all complete as per the direction of engineer in charge.	396.00	Cum	1922.87	761457
3	5.7.7	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I	728.00	m	45.86	33390
4	5.7.8	Labour for fitting and fixing Split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I	0.00	sqm	78.20	0
5	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every vertical pole with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E/I	#REF!	m	5.31	0
6		Supply of Bamboo at site	121.00	nos	188.39	22795
3	5.7.40.1	Labour filling empty cement bags with local sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved design, specification and direction of E/I	4165.00	nos	36.10	150362
4		Providing laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m <sup>3</sup> weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carriage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)	1776.00	Each	172.18	305798
5	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	0.000	Cum	3010.64	0
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row (1000mm Dia).	0.00	m	4041.99	0
		Total			Rs.	1273800

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Executive Engineer,  
Rural Works Department  
Work Division, Triveniganj

## Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM BARI MASZID  
 NAME OF ROAD :- JHAKARGADH TO PURAB MAHADALIT TOLA VIA CHOCHAN , SAH, MANSURI , MAHADALIT TOLA  
 BLOCK :- CHHATAPUR

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
2/2	A R	Providing & laying Brick Bat ...	0.00	Cum	116.85	0.00
		Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.				
		Brick Bats				
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of suti and EC bag etc. all complete as per approved desing, specification and direction of E/I	396.00	Cum	1032.00	408672.00
		Sand				
4/8	5.7.40.2	Providing, laying and filling Geo bags of size 1m X 0.7 m (Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m <sup>3</sup> . weight of filled Geo bags 126 Kg with local sand including stitching in four lines by approved nylon thread with stitching machine and generator stacking and placing after loading unloading and carnage with help of trolley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)	141.58	Cum	116.85	16543.62
		Sand				
5/9	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	135.00	Cum	116.85	15774.75
		For Grading II Material (with Coarse Sand Screening)				
		Unit = Cum				
		Taking output = 300 cum				
		Coarse graded granular sub-base material as per Table 400.2				
		53 mm to 9.5mm @ 50 percent	180.00	Cum	516.42	92955.60
		9.5 mm to 2.36 mm @ 20 percent	72.00	Cum	411.33	29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening)	108.00	Cum	185.94	20081.52
		Cost for 300 cum = a				142652.88
		Rate psr Cum = (a)/300		Cum		475.51
		GSB Gr-II	0.00	Cum	475.51	0.00
						0.00
		Seigniorage Fees @10% of Basic Amount			TOTAL	440990.37
					Say	44099.04

*AK*  
15/6/22  
JE

*Aditya*  
15/06/2022  
AE

*Sy 7.6.22*  
EE

**Executive Engineer**  
**Rural Works Department**  
**Work Division, Triveniganj**