



# 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 BARIYA PUL SE MD GANJ SIMA HOUSE OF  
*Balsurya* RAVION THAKUR

Actual Length of Road	=	2.700 Km
Flood affected Length of Road	=	0.400 Km
TOTAL COST OF PAVEMENT	Rs	1,373,825
TOTAL PROJECT COST	Rs	1,373,825

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

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

23	Supaul	Triveniganj	Ranipatti WN 6 To Sada Tola	1.128	0.15	9.5	Chhatapur
24	Supaul	Triveniganj	Paswan Tola To pal tola	1	0.06	12	Chhatapur
25	Supaul	Triveniganj	Mohamadganj ward no 02 sima se bechan sah shambhu paswan tola to hote hue beriya sima tak	1.865	0.06	22	Chhatapur
27	Supaul	Triveniganj	Jadiya Balua Path SHW se purab swasthya up kendra P.O. se Purab to Madhopur panchyat sima tak via Chauhan, Mandal, Nauniya tola	1.99	0.3	12.5	Chhatapur
28	Supaul	Triveniganj	Madhopur kaji tola paschim kujrahi to SHW birpur Sukhai chowk tak	1.999	0.27	16	Chhatapur
29	Supaul	Triveniganj	Ambika mandal ke ghar ke nikat to Dipu paswan ke ghar kamat kisunganj sima	2.63	0.45	53	Chhatapur
30	Supaul	Triveniganj	Mahaddipur Bazar to Batrahi Muslim Tola	0.3	0.4	3.5	Chhatapur
31	Supaul	Triveniganj	H O Mano Mandal to Ram Tola	0.7	0.1	15	Chhatapur
32	Supaul	Triveniganj	Chhatapur laxmipur sima se to Khatbe tola Mahadalit tola khunti tak	3	0.05	45	Chhatapur
33	Supaul	Triveniganj	Baina Pula axi axi Md Ganj Sima H O Ravin Thakur	0.9	0.085	45	Chhatapur
34	Supaul	Triveniganj	Brahaman Tola PMGSY Udampur Bhagwatipur to Ram Tola	1	0.3	28	Chhatapur
35	Supaul	Triveniganj	HO Prakas Singh to Sah Tola	1.2	0.3	18.5	Chhatapur
36	Supaul	Triveniganj	Gulab Chand Mukhia House to Mullah Tola	1.8	0.25	16.5	Chhatapur
37	Supaul	Triveniganj	N H 57 Yadav Tola to Paswan Tola-2722	1	0.15	9.75	Chhatapur
38	Supaul	Triveniganj	Koriyapatti to Rajeshwari path	3	0.38	22	Chhatapur
39	Supaul	Triveniganj	Karwana Bechan Sah Ke Ghar To Dahariya Sima Tak	2.27	0.25	18	Chhatapur
40	Supaul	Triveniganj	Madhopur Ansari Tola Se Dakshin to SHW Amar Chowk via Mahadalit Tola Yadav Tola	1.05	0.3	58	Chhatapur
41	Supaul	Triveniganj	Rani Patti 49 RD to Digambar Jha Ke Ghar tak	2	0.215	18.5	Chhatapur
42	Supaul	Triveniganj	World Bank Road Barma Colony Hote Huye to Kishan Yadav Ke Ghar tak	1.53	0.2	22.5	Chhatapur
43	Supaul	Triveniganj	Yojna Sankhaya 1 Ram Chandra Ghar Se Purab Mahadalit Tola to Sahata Panchayat Sima Upendra Singh ke Ghar tak	2.2	0.2	29	Chhatapur
44	Supaul	Triveniganj	31 Nosadak Laxman Mehta Ke Ghar Hote Huye to Md. Gani Hote Sima Sadak Tak	1.6	0.3	20	Chhatapur
45	Supaul	Triveniganj	Main Canal East to Paswan Tola	2.37	0.3	25	Chhatapur
46	Supaul	Triveniganj	NH 57 to Nuniya Tola	5.1	0.35	18.5	Chhatapur
47	Supaul	Triveniganj	House of Manilal Paswan Tola to Adibasi Tola	2.7	0.54	17.5	Chhatapur
48	Supaul	Triveniganj	Rajeshwari OP to Tamua	5.1	0.06	42.5	Chhatapur
	Supaul	Triveniganj	Construction of Road from Koriyapatti, Rajeshwari Pakki sadak to the west of Gangapur Minar Canel 8.5 rd to 0 rd	2.75	0.2	48.86	Chhatapur



## जाँच प्रतिवेदन

प्रमुख, 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 कमीटी द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाढ़/अतिवृष्टि से हातिप्रस्त पथों के मोटरबुल कार्य के कृत कार्य मर्दों की मात्रा का स्थलीय जाँच संबंधित सहायक एवं कनीय अभियंता के साथ मापी लिया गया जो निम्न है :-

of Road :- BARIYA PUL SE MD GANG SIMA H O RAVIN THAKUR  
 on Name :- Rural Works Department, Works Division, Triveniganj  
 :- Chhatapur

Sl. No.	Items of Work	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)
	BRICK BATS.					
		5	30	3.75	0.45	253.13
		5	30	3.75	0.3	168.75
		5	30	1.5	0.30	67.50
		5	30	1.2	0.30	54.00
		Total Qty. =				543.38
	hume pipe 1000 mm dia (HPC).	3	4	2.5		30.00

कार्यपालक अभियंता  
 ग्रामीण कार्य विभाग  
 कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता  
 ग्रामीण कार्य विभाग  
 कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता  
 ग्रामीण कार्य विभाग  
 कार्य प्रमंडल, त्रिवेणीगंज

पालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राककलन तैयार कराकर सक्षम कार को अग्रतर कार्रवाई हेतु शीघ्र भेजें।

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

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF  
ROAD FROM BSARIYA PUL SE MD GANJ SIMA HOUSE OF  
RAVION THAKUR

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 2.700 Km

Flood Affected Length of Road :- 0.400 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	1,044,887.56
3	EC BAG	-
4	GEO BAG	-
5	GRANULAR SUB BASE	-
6	HUME PIPE	121,259.74
	Total Cost =	1,166,147.30
	Add:-Labour Cess @1% amt. =	11,661.47
	Add:GST@12% on amt. =	139,937.68
	Add:S.F.@ 10% on Material =	56,078.88
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	1,373,825

*AKP*  
10/6/22

Junior Engineer

RWD (W) Division, Triveniganj

*10/06/2022*

Assistant Engineer

RWD (W) Division, Triveniganj

*11/7/22*

Executive Engineer

RWD (W) Division, Triveniganj

vide letter नुं ममिं 4 (नं.) विविध (नं.) 23-291/2019-4849  
dt-07/12/2021

Technically sanctioned for supers 13,73,825.00/-  
(that is thirteen lakh seventy three thousand eight  
Hundred twenty five supers only.)

*11/29/06/22*

Superintending Engineer  
Rural Works Department  
Works Circle Madhe



## Details of Measurement

कार्य का हयौरा Deatail of Work		संख्या No.	पैमाईरा Measurement			मात्रा Quantity		
			लम्बाई in m.	चौड़ाई In m	In m.			
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM BSARIYA PUL SE MD GANJ SIMA HOUSE OF RAVION THAKUR						
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification							
CH-in			1	0	0.000	0.40	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		
			5	30	3.8	0.5	253.1	
			5	30	3.8	0.3	168.8	
CH-in			5	30	1.5	0.3	67.5	
			5	30	1.2	0.3	54.0	
							543.4	
Item No. 3	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I					Total (in Cum)	543.4	
CH-in			0	20	1.75	0.9	0.00	
	(0.034m3=1 no. of EC Bags)					Total (in cum)	0.00	
							0.00	
							0.00	
Item No. 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 0.07m3. 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)					Total (in nos.)	0.00	
CH-in			2	0	3.00	1.5	0.00	
	(0.076m3=1 no. of Geo Bags)						0.00	
							0.00	
							0.00	
Item No. 5	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 (Gr-II Material)					Total (in nos.)	0.00	
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row (1000mm Dia).					Total (Cum)		
Ch. 0.00km			4	3	2.5		30.00	
							Total (in m)	30.00

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Signature

EE  
Executive Engineer  
Rural Works Department  
Work Division, Privenigani

## Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM BSARIYA PUL SE MD GANJ SIMA HOUSE OF RAVION THAKUR 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 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.	543.40	Cum	1922.87	1044887.56
3	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I	0.00	nos.	36.10	0.00
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)	0.00	Each	172.18	0.00
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.	0.00	Cum	3010.64	0.00
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	30.00	m	4041.99	121259.74
		Total			Rs.	1166147.30

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Executive Engineer  
Rural Works Department  
Work Division, Triveniganj



## Calculation of Seigniorage Fees

**DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM BSARIYA PUL SE MD**  
**NAME OF ROAD :- GANJ SIMA HOUSE OF RAVION THAKUR**  
**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				
		Sand	0.00	Cum	116.85	0.00
2/2	A/R	Providing & laying Brick Bat ...				
		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	543.40	Cum	1032.00	560788.80
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I				
		Sand	0.00	Cum	116.85	0.00
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 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)				
		Sand	0.00	Cum	116.85	0.00
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.				
		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
			0.00	Cum	475.51	0.00
		GSB Gr-II				0.00
						0.00
		Seigniorage Fees @10% of Basic Amount			TOTAL	560788.80
					Say	56078.88

*AE*  
10/6/22  
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10/6/2022  
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*17.6.22*

EE  
**Executive Engineer**  
**Rural Works Department**  
**Work Division, Trivenigani**