



# 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 GULAB CHAND MUKHIA HOUSE TO  
MULLAH TOLA**

Flood affected Length of Road	=	0.375 Km
TOTAL COST OF PAVEMENT	Rs	933,473
TOTAL PROJECT COST	Rs	933,473

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
26	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	Bairia Pula à« , à¥± Md Ganj Sima H O Ravin Thakur	0.9	0.085	45	Chhatapur
34	Supaul	Triveniganj	Brahman Tola PMGSY Udhampur 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
19	Supaul	Triveniganj	World Bank Road Barma Colony Hote Huye to Kishan Yadav Ke Ghar tak	1.53	0.2	22.5	Chhatapur
42	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
43	Supaul	Triveniganj	31 Nosadak Laxman Mehta Ke Ghar Hote Huye to Md. Gani Hote Sima Sadak Tak	1.6	0.3	20	Chhatapur
44	Supaul	Triveniganj	Main Canal East to Paswan Tola	2.37	0.3	25	Chhatapur
45	Supaul	Triveniganj	NH 57 to Nuniya Tola	5.1	0.35	18.5	Chhatapur
46	Supaul	Triveniganj	House of Manilal Paswan Tola to Adibasi Tola	2.7	0.54	17.5	Chhatapur
47	Supaul	Triveniganj	Rajeshwari OP to Tamua	5.1	0.06	42.5	Chhatapur
48	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



जॉच प्रतिवेदन

(37)

प्रस्ता 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 नगर न्याय समिति द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटरबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जॉच संबंधित सहायक ता एवं कनीय अभियंता के साथ मापी लिया गया जो निम्न है :-

Location of Road :- GULAB CHAND MUKHIA HOUSE TO MULLAH TOLA.

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

Block :- Chhatapur

No.	Items of Work	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m <sup>3</sup> )
1	Filling of local sand					
		5	30.00	1.5	(0.6+0.2)/2	90.00
		5	30.00	1.5	(0.6+0.2)/2	90.00
		2	30.00	1.5	(0.9+1.2)/2	36.00
					TOTAL=	216.00
					Total Qty =	216.00
1	EC bag,					274.5
		2	50	2	0.6	120
					120/.034	3530
					Total No. of EC Bags =	3530.00
2	brick bats					
		5	25.0	1.2	0.6	90
		5	25.0	1.2	0.6	90
		5	25.0	1.2	0.6	90
					Total Qty. =	270.00

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, त्रिवेणीगंज

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जॉच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राक्कलन तैयार कराकर धेकार 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 ESTIMAE FOR TEMPORARY RESTORATION OF  
ROAD FROM GULAB CHAND MUKHIA HOUSE TO MULLAH  
TOLA

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Flood Affected Length of Road :- 0.375 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	150,731.9028
2	BRICK BATS	519,174.90
3	EC BAG	127,437.38
4	GEO BAG	-
5	GRANULAR SUB BASE	-
6	HUME PIPE	-
	Total Cost =	797,344.18
	Add:-Labour Cess @1% amt. =	7,973.44
	Add:GST@12% on amt. =	95,681.30
	Add:S.F.@ 10% on Material =	32,473.73
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	933,473

*AFD*  
10/6/22

Junior Engineer  
RWD (W) Division, Triveniganj

*10/6/22*

Assistant Engineer  
RWD (W) Division, Triveniganj

*17.6.22*

Executive Engineer  
RWD (W) Division, Triveniganj

Vide Letter No. 4 (RWD) Dated (Date) 23-29/12/2019-4849  
dt-07/12/2021

Technically sanctioned for rupees 9,33,473.00/-  
(that is Nine Lakh thirty three thousand four hundred  
seventy three 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 Quantity	
			लम्बाई in m.	चौड़ाई In m.	ऊँचाई In m.		
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM GULAB CHAND MUKHIA HOUSE TO MULLAH TOLA					
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification						
CH:-in		5	30	1.500	(0.6+0.2)/2	90.000	
CH:-in		5	30	1.500	(0.6+0.2)/2	90.000	
CH:-in		2	30	1.500	(0.9+1.2)/2	94.500	
						274.500	
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 achelve required density with all complete as per the direction of engineer in charge.						
CH:-in		5	25	1.200	0.600	90.000	
CH:-in		5	25	1.200	0.600	90.000	
CH:-in		5	25	1.200	0.600	90.000	
						270.000	
	Less For Pipe	0	22/7x(0.6)2x2.5 (-)			0.000	
					Total (in Cum)	270.000	
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						
CH:-in		2	50	2	0.6	120.00	
					Total (in cum)	120.00	
	(0.034m3=1 no. of EC Bags)					3529.41	
					Total (in nos.)	3530.00	
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 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)						
CH:-in		2	0	3.00	1.5	0.00	
						0.00	
	(0.076m3=1 no. of Geo Bags)					0.00	
					Total (in nos.)	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)						
		1	0	3.2	0.160	0.00	
					Total (Cum)	0.00	
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).						
	Ch.0.00km	1	0	2.5		0.00	
					Total (in m)	0.00	

AKP  
10/6/22

JE

10/6/22  
AE

H.A.G.2

EE

Executive Engineer  
Rural Works Department  
Work Division, Trivenigani

## Calculation of Seigniorage Fees

NAME OF ROAD :- DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM GULAB CHAND MUKHIA  
BLOCK :- HOUSE TO MULLAH TOLA 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				
2/2	A/R	Providing & laying Brick Bat...	274.50	Cum	116.85	32075.33
		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	270.00	Cum	1032.00	278640.00
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of suttli and EC bag etc. all complete as per approved desing, specification and direction of E/I				
		Sand	120.00	Cum	116.85	14022.00
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
						142652.88
		Cost for 300 cum = a		Cum		475.51
		Rate psr Cum = (a)/300	0.00	Cum	475.51	0.00
						0.00
		GSB Gr-II			TOTAL	324737.33
					Say	32473.73
		Seigniorage Fees @10% of Basic Amount				

*AK*  
10/6/22  
JE

*10/6/2022*  
AE

EE  
*8/17.6.22*  
Executive Engineer  
Rural Works Department  
Work Division, Triveniganj



## Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM BLOCK :- CHHATAPUR  
GULAB CHAND MUKHIA HOUSE TO MULLAH TOLA

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	274.50	Cum	549.11	150731.90
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.	270.00	Cum	1922.87	519174.90
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	3530.00	nos.	36.10	127437.38
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 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).	0.00	m	4041.99	0.00
		Total			Rs.	797344.18

*AE*  
10/6/22  
JE

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