



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 TEMPRORY RESTORATION OF
ROAD FROM RANIPATTI NAHAR W NO.6 TO SADA TOLA**

Flood affected Length of Road	=	0.330 Km
TOTAL COST OF PAVEMENT	Rs	665,716
TOTAL PROJECT COST	Rs	665,716

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 upendra P.O. se Purab to Madhopur panchayat 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 अ०, अ०१ 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. Ganj 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

जाँच प्रतिवेदन

अभियंता 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 सदस्यीय जाँच 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 जाँच संबंधित सहायक अभियंता एवं कनिष्ठ अभियंता के साथ मापी लिया गया जो निम्न है :-

ame of Road :- Ranipatti Nahar W No. 6 TO Sada Tola

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

Block :- Chhatapur

SI No.	Items of Work	Nos.	(n)	(n)	(m) IN	Quantity (m3)
		Total Qty =				528.3
1	GEO BAGS					
		1	50	1	0.9	45
					NO GEO BAG	45/0.076
						632
						592
2	BRICK BATS					
		6	30	1.5	121.5/0.45	121.5
		1	30	2.1	0.45	28.35
		2	30	2.6	0.3	46.8
		2	30	2	(0.3+0.45)/2	45
		Total Qty. =				241.65

23/5/22
26/5/22
23/5/22
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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 प्राक्कलन तैयार कराकर कार को अग्रतर कार्रवाई हेतु शीघ्र भेजे।

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

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :-

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF
ROAD FROM RANIPATTI NAHAR W NO.6 TO SADA TOLA

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Flood Affected Length of Road :- 0.330 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	464,661.54
3	EC BAG	-
4	GEO BAG	101,932.62
5	GRANULAR SUB BASE	-
6	HUME PIPE	-
	Total Cost =	566,594.16
	Add:-Labour Cess @1% amt. =	5,665.94
	Add:GST@12% on amt. =	67,991.30
	Add:S.F.@ 10% on Material =	25,464.11
TOTAL RESTORATION COST OF THE PROJECT IN LACS		665,716

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Junior Engineer
RWD (W) Division,Triveniganj

Signature
10/6/22

Assistant Engineer
RWD (W) Division,Triveniganj

Signature
11/7/22

Executive Engineer
RWD (W) Division,Triveniganj

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dt 07/12/2021

Technically sanctioned for supers 6,65,716.00/-
(that is six lakh sixtyfive thousand seven hundred
sixteen supers only.)

Signature
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.		In m.			
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORRY RESTORATION OF ROAD FROM RANIPATTI NAHAR W NO.6 TO SADA TOLA							
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification								
CH:-in		1	0	0.000		0.40		0.000	
								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.								
CH:-in		6	30	1.500		0.450		121.500	
CH:-in		1	30	2.100		0.450		28.350	
CH:-in		2	30	2.600		0.300		46.800	
CH:-in		2	30	2.000	(0.3+0.45)/2	0.375		45.000	
								241.650	
				Total (in Cum)				241.650	
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		0	0	1.75		0.9		0.00	
				Total (in cum)				0.00	
(0.034m3=1 no. of EC Bags)								0.00	
				Total (in nos.)				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 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		1	50	1.00		0.9		45.00	
								45.00	
(0.076m3=1 no. of Geo Bags)								592.11	
				Total (in nos.)				592.00	
Item No. 5	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	3.75		0.150		0.0000	
		1	0	3.75		0.150		0.0000	
		2	0	3.75		0.150		0.0000	
				Total (Cum)				0.000	
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).								
Ch.0.00km		4	0	2.5				0.00	
				Total (in m)				0.00	

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Executive Engineer
Rural Works Department
Work Division, Trivenigani

Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM
RANIPATTI NAHAR W NO.6 TO SADA 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 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.	241.65	Cum	1922.87	464661.54
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 ³ . 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)	592.00	Each	172.18	101932.62
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	0.00
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.	566594.16

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Executive Engineer
Rural Works Department
Work Division Triveniganj

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM RANIPATTI NAHAR W NO.6
NAME OF ROAD :- TO SADA 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				
		Sand				
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	241.65	Cum	1032.00	249382.80
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 0.07m3. 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)				
		Sand	45.00	Cum	116.85	5258.25
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
					TOTAL	254641.05
		Seigniorage Fees @10% of Basic Amount			Say	25464.11

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Executive Engineer
Rural Works Department
Work Division Trivenigani

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