



# 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 SHW SE RAMJANKI CHOWK M.S.CHAINPUR  
TO KHUTTI M SCHOOL TO MAIN CANAL 7 RD**

Flood affected Length of Road	=	0.325 Km
TOTAL COST OF PAVEMENT	Rs	1,930,255
TOTAL PROJECT COST	Rs	1,930,255

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

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



SINo	District	Division	Road Name	Length(In Km.)	Length of Damage Part Due to Flood	Tentative Restoration Amount(In Lac)	Block
1	Supaul	Triveniganj	Chunni world bank to choudhary tola(sahpur), girdharpatti hat via mirrapatti.	9.3	0.3	60	Chhatapur
2	Supaul	Triveniganj	Mahdipur Bazar to Chatapur (Boader)	1	0.25	18	Chhatapur
3	Supaul	Triveniganj	L053-T01 To Narahiya (VR8)	2.585	0.35	19	Chhatapur
4	Supaul	Triveniganj	1.Construction of road from Lalji Chauk Harihar Path to Sohta Kachni Road with five years maintenance	11.97	0.3	44	Chhatapur
5	Supaul	Triveniganj	2.Construction of road from Chhatapur bus stand to Bhatta Bari Road with five years maintenance.	3.18	0.2	36	Chhatapur
6	Supaul	Triveniganj	3. Construction of road from ChhatapurAnant Chowkto Bhatta Bari Road with five years maintenance.	1.485	0.1	20	Chhatapur
7	Supaul	Triveniganj	2.Construction of road from Raghunathpurto Faisya Kothi Road with five years maintenance.	9.375	2.12	64	Chhatapur
8	Supaul	Triveniganj	1.Construction of road from Chunni to Charney world Bank road with five year maintenance	6.345	0.3	40	Chhatapur
9	Supaul	Triveniganj	2. Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance	7.75	0.3	45	Chhatapur
10	Supaul	Triveniganj	3. Construction of road from Lalit gram Railway Station to Mahadev Patti with five year maintenance	2.055	0.4	34	Chhatapur
11	Supaul	Triveniganj	Near House of Bishwanath Thakur TO Brahaman Tola, Pratapganj Pariyahi Road Middle MMGSY[SC]hool Lalganj	2	0.15	50	Chhatapur
12	Supaul	Triveniganj	State Highway Se Ramjanki Chowk Middle School Chapin to Aarriya Sima Birpur Path Via Ayub 72 RD Subki mandal tola middle school thuthi	8.165	0.4	34	Chhatapur
13	Supaul	Triveniganj	Pariyahi Pradhanmantri Sadak Se Pachim Ranipatti Nahar Ke Daya Bank to Udakishunganj SHW Nahar Pul Tak	5.035	0.15	75	Chhatapur
14	Supaul	Triveniganj	Bari Maszid Jhakhargadh TO Purab Mahadalit Tola Via Chohan, Sah, Mansuri, Mahadalit Tola	2	0.2	15	Chhatapur
15	Supaul	Triveniganj	SHW From House of Chhutharu Sahni to NH57 Naaharpul Via Mehta Mahadalit Tola.	3.55	0.15	12	Chhatapur
16	Supaul	Triveniganj	Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	3.175	0.33	23	Chhatapur
17	Supaul	Triveniganj	L033-T01 To Lachmipur (VR9)	4.421	0.2	70	Chhatapur
18	Supaul	Triveniganj	31 No Road to Darhariya Sima PMGSY via Pariyadhar	3.54	0.15	40	Chhatapur
19	Supaul	Triveniganj	Madhopur Market to West North SHW Birpur Road via Uddhampur Sima	1.645	0.06	35	Chhatapur
20	Supaul	Triveniganj	SH Bus Stand Paschim Bakho Tola & Paswan Tola Hote Huye Genda Nadi Evam Mirchaiya Nadi Par Karte Huye Harripatti SH Tak	4.77	0.025	15	Chhatapur
21	Supaul	Triveniganj	East of SHW Kalam Dealer House to Anand Chowk	1.5	0.12	35	Chhatapur
22	Supaul	Triveniganj	Pradhanmantri Matiyari to Brahamotra Mushhari Tola	2.085	0.2	68	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 सदस्यीय कमिटी द्वारा 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 कनीय अभियंता के साथ किया गया जो निम्न है :-

of Road :- S H W SE RAMJANKI CHOWK M. S.CHAINPUR TO KHUTTI M SCHOOL

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

:- Chhatapur

No.	Items of Work	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m <sup>3</sup> )
1	BRICK BATES					
		2	4.00	3.75	0.15	4.50
		1	5.00	(7.5+8)/2	0.15	5.81
		1	20.00	(5+4.5)/2	0.45	42.75
		1	25.00	(7.5+8)/2	0.60	116.25
		1	17.00	4.5	0.30	22.95
		10 x 2	25.00	2.75	0.15	206.25
	LESS PIPE	11X2	0.79	1.23	0.62	-13.21
					TOTAL	385.30
2	GEO BAGS					
		2	125.0	1.2	0.6	180
					180/0.076	2369
	NO OF GO BAGS					2369
4	GSB GE2					
		1	30.00	3.75	0.15	16.88
		1	30.00	3.75	0.15	16.88
		2	25.00	3.75	0.15	28.13
					Total Qty. =	61.88
5	hume pipe 1000 mm dia					
		4	3.00	2.50		30.00
		4	3.00	2.50		30.00
		3	3.00	2.50		22.50
					Total Qty. =	82.50

23/5/22  
76

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, दीरपुर।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, त्रिवेणीगंज

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

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 SHW SE RAMJANKI CHOWK M.S.CHAINPUR TO  
KHUTTI M SCHOOL

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Flood Affected Length of Road :- 0.325 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	740,886.62
3	EC BAG	-
4	GEO BAG	407,902.66
5	GRANULAR SUB BASE	186,283.35
6	HUME PIPE	333,464.30
	Total Cost =	1,668,536.93
	Add:-Labour Cess @1% amt. =	16,685.37
	Add:GST@12% on amt. =	200,224.43
	Add:S.F.@ 10% on Material =	44,808.73
TOTAL RESTORATION COST OF THE PROJECT IN LACS		1,930,255

*AK*  
10/6/24

Junior Engineer  
RWD (W) Division, Triveniganj

*15/6/2024*

Assistant Engineer  
RWD (W) Division, Triveniganj

*17.6.24*

Executive Engineer  
RWD (W) Division, Triveniganj

Vide letter no 4 (R.D.) dated (10.6.24) - 23-29/12/2019 - 4849

dt - 07/12/2024

Technically sanctioned for supers 19,30,255.00/-  
(that is nineteen lakh thirty thousand two hundred  
fifty five supers only)

*11/29/06/24*

Superintending Engineer  
Rural Works Department  
Works Circle Madhe

## Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM BLOCK :-  
SHW SE RAMJANKI CHOWK M.S.CHAINPUR TO KHUTTI M SCHOOL

CHHATAPUR

S.No	SOR NO	DESRPTION 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.	385.30	Cum	1922.87	740886.62
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 0.07m3. 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)	2369.00	Each	172.18	407902.66
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.	61.875	Cum	3010.64	186283.35
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	82.50	m	4041.99	333464.30
		Total			Rs.	1668536.93

*AE*  
15/6/22

JE

*AE*  
15/6/22

AE

*6/7/22*

EE

Executive Engineer  
Rural Works Department  
Work Division, Trivenigan



Details of Measurement									
कार्य का ब्यौरा Deatail of Work			संख्या No.	दिमाईत Measurement			मात्रा In m.		मात्रा
			लम्बाई in m.	चौड़ाई in m.	घन In m.				
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM SIHW SE RAMJANKI CHOWK M.S.CHAINPUR TO KIHUTTI M SCHOOL							
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 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.								
CH-in		2	4		3.750	0.150	4.50		
CH-in		1	5	(7.5+8)/2	7.750	0.150	5.81		
CH-in		1	20	(5.0+4.5)/2	4.750	0.450	42.75		
CH-in		1	25	(7.5+8.0)/2	7.750	0.600	116.25		
CH-in		1	17		4.500	0.300	22.95		
CH-in		10	50		2.75	0.150	206.25		
								398.51	
Less For Pipe		11x2	0.79x1.23x0.62 (-)				13.21		
Total (in Cum)								385.30	
Item No. 3	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 desing, specification and direction of E/I								
CH-in		0	20		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		2	125		1.20	0.6	180.00		
								180.00	
(0.076m3=1 no. of Geo Bags)								2368.42	
Total (in nos.)								2369.00	
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	30		3.75	0.150	16.8750		
		1	30		3.75	0.150	16.8750		
		2	25		3.75	0.150	28.1250		
Total (Cum)								61.875	
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row (1000mm Dia).								
Ch 0.00km		4	3		2.5		30.00		
Ch 0.00km		4	3		2.5		30.00		
Ch 0.00km		3	3		2.5		22.50		
Total (in m)								82.50	

AK  
15/6/22  
22

~~Relay~~  
AE

5/7.6.22

EE  
Executive Engineer  
Rural Works Department  
Work Division, Trivenigani

## Calculation of Seigniorage Fees

**DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM SHW SE RAMJANKI**  
**NAME OF ROAD :- CHOWK M.S.CHAINPUR TO KHUTTI M SCHOOL**  
**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	385.30	Cum	1032.00	397632.18
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	180.00	Cum	116.85	21033.00
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				475.51
		Rate psr Cum = (a)/300	61.88	Cum	475.51	29422.16
						29422.16
		GSB Gr-II				
					TOTAL	448087.34
					Say	44808.73
		Seigniorage Fees @10% of Basic Amount				

*AG*  
15/6/22  
JE

*AE*  
15/6/22  
AE

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*6/7/22*  
Executive Engineer  
Rural Works Department  
Work Division Trivenigani