



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 CHUNNI TO CHARNEY WORLD BANK
ROAD WITH FIVE YEAR MAINTENANCE**

Actual Length of Road	=	6.345 Km
Flood affected Length of Road	=	1.170 Km
TOTAL COST OF PAVEMENT	Rs	24,87,283.19
TOTAL PROJECT COST	Rs	24,87,283.19

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 Chhatapur Anant Chowk to Bhatta Bari Road with five years maintenance.	1.485	0.1	20	Chhatapur
7	Supaul	Triveniganj	2. Construction of road from Raghunathpur to 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 Laiganj	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

जॉच प्रतिवेदन

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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 समिति द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाढ़/अतिवृष्टि से हातिग्रस्त फलों के मोटेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जॉच संबंधित सहायक अभियंता एवं कृषिय अभियंता के साथ गापी लिया गया जो निम्न है :-

Name of Road :- CONSTRUCTION OF ROAD CHUNNI TO CHARNEY WORLD BANK ROAD .
Division Name :- Rural Works Department, Works Division, Triveniganj
Block :- Chhatapur

Sl No.	Items of Work	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)	
1	LOCAL SAND.						
		1	20.0	2.0	0.30	12.00	
		1	20.0	2.0	0.30	12.00	
		1	10.0	1.6	0.60	9.60	
		1	30.0	(2.5+4)/2	0.90	87.75	
		Total Qty =					121.35
2	BRICK BATS						
		4	25.0	2.8	0.45	126	
		2	30.0	3.0	0.45	81	
		1	30.0	3.0	0.45	40.5	
		Total Qty. =					247.50
						247.50	
3	GSB GR-71						
		6	30.0	3.0	0.15	81.00	
		4	30.0	3.0	0.15	54.00	
		4	50.0	3.0	0.15	90.00	
		5	30.0	3.2	0.15	72.00	
		4	50.0	3.0	0.15	90.00	
		5	30.0	3.2	0.15	72.00	
		3	30.0	3.0	0.15	40.50	
		1	30.0	3.0	0.15	13.50	
		1	50.0	3.0	0.15	22.50	
		Total Qty. =					535.50

126

23/5/22
75

23/05/22
BCE

23/05/22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, सुपौल।

23/5/22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बीरपुर।

23/5/22

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 सक्षम प्राधिकार को अग्रतर कार्रवाई हेतु शीघ्र भेजें।

23/5/22

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 CHUNNI TO CHARNEY WORLD BANK ROAD WITH FIVE YEAR MAINTENANCE

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 6.345 Km

Flood Affected Length of Road :- 1.170 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	66,635.0324
2	BRICK BATS	475,910.33
3	EC BAG	-
4	GEO BAG	-
5	GRANULAR SUB BASE	1,612,197.72
6	HUME PIPE	-
	Total Cost =	2,154,743.08
	Add:-Labour Cess @1% amt. =	21,547.43
	Add:GST@12% on amt. =	258,569.17
	Add:S.F.@ 10% on Material =	52,423.51
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	2,487,283.19

Say Rs- 2487283.00

AP
10/06/22

Junior Engineer

RWD (W) Division, Triveniganj

AP
10/06/22

Assistant Engineer

RWD (W) Division, Triveniganj

17.6.22

Executive Engineer

RWD (W) Division, Triveniganj

Vide letter नुं अमि 4 (नुं) विनिय (कय) 23-29/1/2019-4849
dt 07/12/2021

Technically sanctioned for expenses 24,87,283.00/-
(that is twenty four Lakhs eighty seven thousand
two hundred eighty three rupees only)

22/06/22

Superintending Engineer
Rural Works Department
Works Circle Madhe

Details of Measurement

कार्य का ब्योरा Detail of Work		संख्या No.		Measurement			मात्रा Quantity
		लम्बाई in m.	चौड़ाई in m.	In m.			
NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM CHUNNI TO CHARNEY WORLD BANK ROAD WITH FIVE YEAR MAINTENANCE							
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification						
CH-in		1	20		2.000	0.30	12.000
CH-in		1	20		2.000	0.30	12.000
CH-in		1	10		1.600	0.60	9.600
CH-in		1	30	(2.5+4.0)/2	3.250	0.90	87.750
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		4	25		2.800	0.450	128.000
CH-in		2	30		3.000	0.450	81.000
CH-in		1	30		3.000	0.450	40.500
							247.500
Item No. 3	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutfi and EC bag etc. all complete as per approved desing, specification and direction of E/I						
CH-in		2	0		1.5	0.45	0.00
	Total (in Cum)						247.500
	(0.034m3=1 no. of EC Bags)						0.00
	Total (in cum)						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	0		1.20	0.6	0.00
	Total (in nos.)						0.00
	(0.076m3=1 no. of Geo Bags)						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)						
		6	30		3.00	0.150	81.000
		4	30		3.00	0.150	54.000
		4	50		3.00	0.150	90.000
		5	30		3.20	0.150	72.000
		4	50		3.00	0.150	90.000
		5	30		3.20	0.150	72.000
		3	30		3.00	0.150	40.500
		1	30		3.00	0.150	13.500
		1	50		3.00	0.150	22.500
	Total (Cum)						535.500
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row (1000mm Dia).						
Ch.in		4	0		2.5		0.00
	Total (in m)						0.00

Asp
10/16/22
JE

Asp
10/16/2022
AE

Signature
EE
Executive Engineer
Rural Works Department
Work Division Triveniganj

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM CHUNNI TO CHARNEY
 NAME OF ROAD :- WORLD BANK ROAD WITH FIVE YEAR MAINTENANCE
 BLOCK :- CHHATAPUR

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
11	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
		Sand	121.35	Cum	116.85	14179.75
22	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	247.50	Cum	1032.00	255420.00
37	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
48	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 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)				
		Sand	0.00	Cum	116.85	0.00
59	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
			535.50	Cum	475.51	254635.39
		GSB Gr-II				254635.39
					TOTAL	524235.14
		Seigniorage Fees @10% of Basic Amount			Say	52423.51

AP
10/16/22
JE

10/05/2022
AE

17.6.22
Executive Engineer
Rural Works Department
Work Division, Trivenigala

Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM CHUNNI TO CHARNEY WORLD BANK ROAD WITH FIVE YEAR MAINTENANCE 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	121.35	Cum	549.11	66635.03
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.	247.50	Cum	1922.87	475910.33
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)	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.	535.500	Cum	3010.64	1612197.72
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.	2154743.08

AK
10/6/22
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10/06/2022
AE

8/17/22
EE
Executive Engineer
Rural Works Department
Work Division, Trivenigani