



# 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 NH 57 TO NONIYA TOLA

Actual Length of Road	=	5.000 Km
Flood affected Length of Road	=	450.000 Km
TOTAL COST OF PAVEMENT	Rs	2,324,127
TOTAL PROJECT COST	Rs	2,324,127

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

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

## जॉच प्रतिवेदन

५२

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 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 अभियंता एवं अभियंता के साथ मापी लिया गया जो निम्न है :-

of Road :- NH 57 TO NONIYA TOLA.

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

:- Chhatapur

Items of Works	Nos.	(r)	(r)	(m)	Quantity (m3)
LOCAL SAND					
	3	30.0	3.5	0.6	189
	3	30.0	3.5	0.6	189
	1	30.0	3.5	0.9	94.5
				TOTAL=	472.5
BRICK BATS.					
	3	30.0	3.75	0.3	101.25
	3	30.0	3.75	0.6	202.5
	3	30.0	3.75	0.6	202.5
				TOTAL=	506.25
GSB GR-2					
	3	30.0	3.75	0.15	50.63
	3	30.0	3.75	0.15	50.63
	3	30.0	3.75	0.15	50.63
	3	30.0	3.75	0.15	50.63
	3	30.0	3.75	0.15	50.63
				Total Qty. =	253.13

23/5/22  
23/5/22

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, त्रिवेणीगंज

23/5/22

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

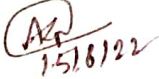
23/5/22

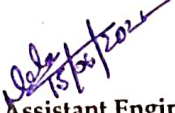
अधीक्षण अभियंता सह अध्यक्ष जॉच समिति  
ग्रामीण कार्य विभाग  
कार्य अंचल, मधेपुरा

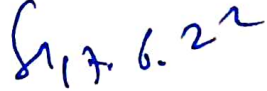


## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :-		DETAILED ESTIMATE FOR TEMPORARY RESTORATION OF ROAD FROM NH 57 TO NONIYA TOLA					
DIVISION :-		TRIVENIGANJ					
BLOCK :-		CHHATAPUR					
Actual Length of Road :-		5.000 Km					
Flood Affected Length of Road :-		450.000 Km					
Sr. No.	Description						Amount (In Rs.)
1	SAND BAG						259,456.5540
2	BRICK BATS						973,452.94
3	EC BAG						-
4	GEO BAG						-
5	GRANULAR SUB BASE						762,068.25
6	HUME PIPE						-
	Total Cost =						1,994,977.74
	Add:-Labour Cess @1% amt. =						19,949.78
	Add:GST@12% on amt. =						239,397.33
	Add:S.F.@ 10% on Material =						69,802.50
	TOTAL RESTORATION COST OF THE PROJECT IN LACS						2,324,127

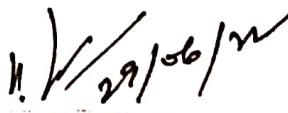
  
 15/6/22  
 Junior Engineer  
 RWD (W) Division, Triveniganj

  
 15/6/2022  
 Assistant Engineer  
 RWD (W) Division, Triveniganj  
 Chhatapur

  
 15/6/22  
 Executive Engineer  
 RWD (W) Division, Triveniganj

vide letter no 4(20) dated 23-291/2019-4849  
 dt 07/12/2021

Technically sanctioned for super 23,24,127.00/-  
 (Total is twenty three lakh twenty four thousand and  
 one hundred twenty seven only)

  
 29/06/22  
 Superintending Engineer  
 Rural Works Department  
 Works Circle, Chhatapur



## Calculation of Seigniorage Fees

**NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM NH 67 TO NONIYA 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	472.50	Cum	116.85	55211.63
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	506.25	Cum	1032.00	522450.00
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
			253.13	Cum	475.51	120363.37
		GSB Gr-II				120363.37
					TOTAL	698024.99
		Seigniorage Fees @10% of Basic Amount			Say	69802.50

*AP*  
15/6/22  
JE

*AP*  
15/6/22  
AE

EE

*S*  
17.6.22  
Executive Engineer  
Rural Works Department  
Work Division, Trivenigani

Details of Measurement									
कार्य का ब्यौरा Detail of Work		संख्या No.	दिमाईस				मात्रा Quantity		
			लम्बाई in m.		चौड़ाई In m.			In m.	
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORRY RESTORATION OF ROAD FROM NH 57 TO NONIYA TOLA							
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification								
		3	30.0		3.50		0.60	189.0	
		3	30.0		3.50		0.60	189.0	
CH:-in		1	30.0		3.50		0.90	94.500	
								472.500	
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 acheive required density with all complete as per the direction of engineer in charge.								
CH:-in		3	30.0		3.750		0.300	101.250	
CH:-in		3	30.0		3.750		0.600	202.500	
CH:-in		3	30.0		3.750		0.600	202.500	
								506.250	
							Total (in Cum)	506.250	
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	0		2		0.6	0.00	
							Total (in cum)	0.00	
	(0.034m3=1 no. of EC Bags)						Total (in nos.)	0.00	
Item No. 4									
CH:-in		2	0		3.00		1.5	0.00	
								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)								
		3	30.0		3.75		0.15	50.63	
		3	30.0		3.75		0.15	50.63	
		3	30.0		3.75		0.15	50.63	
		3	30.0		3.75		0.15	50.63	
		3	30.0		3.75		0.15	50.63	
							Total (Cum)	253.13	
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).								
	Ch.0.00km	3	0		2.5			0.00	
							Total (in m)	0.00	

AK  
15/6/22  
BE

15/6/2022  
AE

Ch. 62  
EE

Executive Engineer  
Rural Works Department  
Work Division, Trivenigani



## Estimate of Flood affected Road

NAME OF ROAD :-

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM  
NH 57 TO NONIYA 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	472.50	Cum	549.11	259456.55
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.	506.25	Cum	1922.87	973452.94
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.	253.125	Cum	3010.64	762068.25
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.	1994977.74

*AE*  
15/6/22

JE

*AE*  
15/6/22

AE

*h17.622*

EE

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