

# 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 DICTRICT BLOCK DIVISION BIHAR SUPAUL CHHATAPUR TRIVENIGANJ

# DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM NH-57 YADAV TOLA TO PASWAN TOLA - 2722

Actual Length of Road	K=I	1.000 Km
Flood affected Length of Road	=	0.432 Km
TOTAL COST OF PAVEMENT	Rs	1,166,475
TOTAL PROJECT COST	Rs	1,166,475

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

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

	т	T		1.128	0.15	9.5	Chhatapur
23	Supaul	Triveniganj	Ranipatti WN 6 To Sada Tola	Ranipatti WN 6 10 Sada 1018		12	Chhatapur
24	Supaul	Triveniganj	Paswan Tola To pal tola	1	0.06		
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	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	Trivenigan	Mahaddipur Bazar to Batrahi Muslim Tola	0.3	0.4	3.5	Chhatapur
31	Supaul	Trivenigan	H O Mano Mandal to Ram Tola	0.7	0.1	15	Chhatapur
32	Supaul	Trivenigan	Chhatapur laxmipur sima se to Khatbe tola Mahadalit tola khunti tak	3	0.05	45	Chhatapur
33	Supaul	Trivenigan	Bairia Pula से Md Ganj Sima H O Ravin Thakur	0.9	0.085	45	Chhatapur
34	Supaul	Trivenigan	Brahaman Tola PMGSY Udhampur Bhagwatipur to Ram Tola	1	0.3	28	Chhatapur
35	Supaul	Trivenigan	j HO Prakas Singh to Sah Tola	1.2	0.3	18.5	Chhatapur
36	Supaul	Trivenigan	Gulab Chand Mukhia House to Mullah Tola	1.8	0.25	16.5	Chhatapui
37	Supaul	Trivenigan	N H 57 Yadav Tola to Paswan Tola-2722	1	0.15	9.75	Chhatapu
38	Supaul	Trivenigan	Koriyapatti to Rajeshwari path	3	0.38	22	Chhatapu
39	Supaul	Triveniganj	Karwana Bechan Sah Ke Ghar To Dahariya Sima Tak	2.27	0.25	18	Chhatapu
40	Supaul	Triveniganj	Madhopur Ansari Tola Se Dakshin to SHW Amar Chowk via Mahadalit Tola Yadav Tola	1.05	0.3	58	Chhatapu
41	Supaul	Triveniganj	Rani Patti 49 RD to Digambar Jha Ke Ghar tak	2	0.215	18.5	Chhatapi
19	Supaul	Triveniganj	World Bank Road Barma Colony Hote Huye to Kishan Yadav Ke Ghar tak	1.53	0.2	22.5	Chhatapi
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	Chhatap
43	Supaul	Triveniganj	31 Nosadak Laxman Mehta Ke Ghar Hote Huye to Md. Ganj Hote Sima Sadak Tak	1.6	0.3	20	Chhatap
14	Supaul	Triveniganj		2.37	0.3	25	Chhatap
15	Supaul	Triveniganj	NH 57 to Nuniya Tola	5.1	0.35	18.5	Chhatag
16	Supaul	Triveniganj	House of Manilal Paswan Tola to Adibasi Tola	2.7	0.54	17.5	Chhatag
17	Supaul	Triveniganj	Rajeshwari OP to Tamua	5.1	0.06	42.5	Chhata
18	Supaul	Triveniganj	Construction of Road from Koriyapatti, Rajeshwari Pakkl sadak to the west of Gangapur Minar Canel 8.5 rd to 0	2.75	0.2	48.86	Chhatat

#### जाँच प्रतिवेदन

विभागता 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 विभिन्नत प्रतिक प्राप्त के अंतर्गत वर्ष 2021—22 में बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जीव संबंधित सहायक अमियंता एवं कनीय अमियंता के साथ पी लिया गया जो निम्न है :-

ame of Road :- NH 57 YADAV TOLA TO PASWAN TOLA.

ivision Name :- Rural Works Department, Works Division, Triveniganj ock:- Chhatapur

SI No.	Items of Works	Nos.	M	M	(mi) IN (	Quantity (m
1	1 1					
	BRICK BATS	5	30.0	2.5	0.3	112.5
		2	30.0	3.2	0.6	115.2
		1	30.0	1	0.45	13.5
		5	30.0	1.5	0.3	67.5
		1	30.0	8.5	0.6	153
		1	12.0	(9+7.5)/2	0.6	59.4
	LESS PIPE	4x2	0.79	1.23	0.622	-4.8
					Total Qty. =	482.4
2	HP 1000MM DIA.	2	3	2.5		15
			1/0/	1		

516.3

कार्यपालक

ग्रामीण कार्य विमाग कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता ग्रामीण कार्य विभाग

कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, त्रिवेणीगंज

G123,5,22

ार्यपालक अभियंता, ग्रामीण कार्य विमाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राक्कलन तैयार कराकर सक्षम धिकार को अग्रतर कार्रवाई हेतु शीघ भेजें।

अधीक्षण अमियंता सह अध्यक्ष जाँच समिति

ग्रामीण कार्य विमाग कार्य अंचल, मधेपुरा

### SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF

NAME OF ROAD :-

ROAD FROM NH-57 YADAV TOLA TO PASWAN TOLA -2722

DIVISION :-TRIVENIGANJ

> BLOCK :-**CHHATAPUR**

1.000 Km Actual Length of Road :-Flood Affected Length of Road :-0.432 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	-
2	BRICK BATS	927,592.49
3	EC BAG	-
4	GEO BAG	
5	GRANULAR SUB BASE	
6	HUME PIPE	60,629.87
	Total Cost =	988,222.36
	Add:-Labour Cess @1% amt. =	9,882.22
	Add:GST@12% on amt. =	118,586.68
	Add:S.F.@ 10% on Material =	49,783.68
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	1,166,475

Junior Engineer RWD (W) Division, Triveniganj

Assistant Engineer

RWD (W) Division, Triveniganj
Chalapyr

**Executive Engineer** 

RWD (W) Division, Triveniganj

Vide Letter 70 21 Aro-4 (70) Paraer (1017) 23-291/2019-4849

Technically Sonctioned for R 1166475.00}

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Seventy five only

29/06/2

Superintending Enginee Rural Works Departmen Works Circle Madher

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		·				संख्या					
कार्य का ब्यौरा Deatail of Work			No.	लम्बाई		चौड़ाई	In m.				
Deatan of work			i		in m.		In m.		मात्र		
		DETA	ILED ES	STIMAE F	FOR TEN	1PRORY	RESTO	RATION C	F ROAD	FROM	NH-57
ME OF RO				YA	DAV TO	LA TO	PASWAN	TOLA -27			
No. 1 S	Sand filling	g in Founda	ition Trenc	hes as per	Drawing &	Technical	Specificat	ion			
-in .				T		1	0	1	4.200	0.40	0.000
							0				0.000
Ş	grading to		lope and c					neans with a sity with all c			
-in						5	30		2.50	0.30	112.50
:-in						2	30		3.20	0.60	115.20
:-in						1	30		1.00	0.45	13.50
:-in						5	30		1.50	0.30	67.50
:-in						1	30		8.50	0.60	153.00
:-in						1	12	(9+7.5)/2	8.25	0.60	59.40 -4.800
		LESS PIPE					4X2X0.79X1.23X0.622				
- No. 0	l about 6	Wine nearly			al send at	tobing the	base and i	olacina inclu	Total (in		482.400
n No. 3	and FC	llling empty	cement ba	gs with look	ai sand, sti	specifica	tion and dir	placing include rection of E/I	ing supply	0.300	
	luna 20.	bag etc. un	complete a	э рег пррго	rea desing	, 5000					
						0	20	1	4 75	0.9	0.00
ł:-in						0			.1.75	1 0.5	
t:-in						0		otal (in cum		0.5	0.00
ł:-in	(0.034m	3=1 no. of	EC Bags)				7		)	0.9	0.00
	(0.034m	3=1 no. of	EC Bags)				7	otal (in cum otal (in nos.	)	0.9	0.00
em No. 4	Providin volume lines by unloadin	g,laying and of filled bag approved nagand carrie	filling Geo 0.07m3. w ylon thread age with he	eight of filled I with stitching	d Geo bags ng machine within 150r	m(Type A s 126 Kg w and gene n lead all c	300 GSM ith local sa		) weight of ba stitching in ng after loa	ags 420g	0.00
	Providin volume lines by unloadin	g,laying and of filled bag approved nagand carrie	filling Geo 0.07m3. w ylon thread age with he	eight of filled I with stitching Ip of trolley	d Geo bags ng machine within 150r	m(Type A s 126 Kg w and gene n lead all c	300 GSM ith local sa	otal (in nos.) nonwoven) v nd including ing and placi	) weight of ba stitching in ng after loa	ags 420g	0.00
em No. 4	Providin volume lines by unloadin	g,laying and of filled bag approved nagand carrie	filling Geo 0.07m3. w ylon thread age with he	eight of filled I with stitching Ip of trolley	d Geo bags ng machine within 150r	m(Type A s 126 Kg w and gene n lead all c 0.5 km)	300 GSM with local sa rator stack complete as	otal (in nos.) nonwoven) v nd including ing and placi	weight of ba stitching in ng after loa ations and	ags 420g four ading	0.00 0.00 0.00 0.00
em No. 4 H:-in	Providin volume lines by unloadin direction	g,laying and of filled bag approved nagand carrie	d filling Geo 0.07m3. w ylon thread age with he uding Carri	eight of filler I with stitchin Ip of trolley age of Loca	d Geo bags ng machine within 150r	m(Type A s 126 Kg w and gene n lead all c 0.5 km)	300 GSM with local sa rator stack complete as	otal (in nos.) nonwoven) v nd including ing and placi	weight of ba stitching in ng after loa ations and	ags 420g four ading	0.00 0.00 0.00
em No. 4 H:-in	Providin volume lines by unloadin direction	ig,laying and of filled bag approved n ng and carria n of E/I (incl	d filling Geo 0.07m3. w ylon thread age with he uding Carri	eight of filler I with stitchin Ip of trolley age of Loca	d Geo bags ng machine within 150r	m(Type A s 126 Kg w and gene n lead all c 0.5 km)	1 300 GSM with local sa rator stack complete as	otal (in nos.) nonwoven) v nd including ing and placi	weight of ba stitching in ng after loa ations and 3.00	ags 420g four ading	0.00 0.00 0.00 0.00
em No. 4 H:-in	Providin volume lines by unloadir direction (0.076m:	ig, laying and of filled bag approved in grand carries of E/I (included)  3=1 no. of Control of grant or mounted vator at Office of the second	d filling Geo 0.07m3. w ylon thread age with he uding Carri Geo Bags) nular sub-b d grader an MC, and co	reight of filled I with stitching I with stitching I pof trolley age of Loca age of Loca ase by prover angement of Impacting w	d Geo bagging machine within 150r I sand lead iding well gon prepare ith smooth	m(Type As 126 Kg we and gene n lead all c 0.5 km)  2  graded maid surface, wheel ro	300 GSM with local sa rator stack complete as 0	nonwoven) v not including ing and placi is per specific  Total (in nos.  ading in unifor ix in place is eve the desir	weight of bastitching in after loastions and 3.00	ags 420g four ading	0.00 0.00 0.00 0.00 0.00 0.00
em No. 4	Providin volume lines by unloadir direction (0.076m:	ig, laying and of filled bag approved in grand carries of E/I (included)  3=1 no. of Control of grant or mounted vator at Office of the second	d filling Geo 0.07m3. w ylon thread age with he uding Carri Geo Bags) nular sub-b d grader an MC, and co	reight of filled I with stitching I with stitching I pof trolley age of Loca age of Loca ase by proverangement of	d Geo bagging machine within 150r I sand lead iding well gon prepare ith smooth	m(Type As 126 Kg we and gene in lead all confidence of the confide	300 GSM with local sa rator stack complete as 0  derial, sprea mixing by r ller to achie r-II Materi	nonwoven) v not including ing and placi is per specific  Total (in nos.  ading in unifor ix in place is eve the desir	weight of ba stitching in ng after loa ations and 3.00	ags 420g four ading	0.00 0.00 0.00 0.00 0.00 0.00 0.00
em No. 4	Providin volume lines by unloadir direction (0.076m:	ig, laying and of filled bag approved in grand carries of E/I (included)  3=1 no. of Control of grant or mounted vator at Office of the second	d filling Geo 0.07m3. w ylon thread age with he uding Carri Geo Bags) nular sub-b d grader an MC, and co	reight of filled I with stitching I with stitching I pof trolley age of Loca age of Loca ase by prover angement of Impacting w	d Geo bagging machine within 150r I sand lead iding well gon prepare ith smooth	m(Type As 126 Kg we and gene n lead all c 0.5 km)  2  graded maid surface, wheel ro	300 GSM with local sa rator stack complete as 0	nonwoven) v not including ing and placi is per specific  Total (in nos.  ading in unifor ix in place is eve the desir	weight of ba stitching in ng after loa ations and 3.00	ags 420g four ading 1.5	0.00 0.00 0.00 0.00 0.00 0.00
em No. 4	Providin volume lines by unloadin direction (0.076m:	ig,laying and of filled bag approved in ing and carriation of E/I (inclusion) and the control of granter mounted vator at Of complete as	d filling Geo 0.07m3. w ylon thread age with he uding Carri Geo Bags) hular sub-b d grader and MC, and co s per Tech	ase by provrangement of measurements of the second	d Geo bagging machine within 150r I sand lead iding well gon preparedith smooth ication Clar	raded mate d surface, wheel rouse 401.(G	300 GSM with local sa rator stack complete as 0  derial, sprea mixing by r ller to achie cr-II Materi 0	nonwoven) v not including ing and placi is per specific  Total (in nos.  ading in unifor ix in place is eve the desir	weight of ba stitching in ng after loa ations and 3.00	ags 420g four ading 1.5	0.00 0.00 0.00 0.00 0.00 0.00 0.00
em No. 4	Providin volume lines by unloadin direction (0.076m:	ig,laying and of filled bag approved in ing and carriation of E/I (inclusion) and the control of granter mounted vator at Of complete as	d filling Geo 0.07m3. w ylon thread age with he uding Carri Geo Bags) hular sub-b d grader an MC, and co s per Techn	ase by provrangement of measurements of the second	d Geo bagging machine within 150r I sand lead iding well gon preparedith smooth ication Clar	raded mate d surface, wheel rouse 401.(G	300 GSM with local sa rator stack complete as 0  derial, sprea mixing by r ller to achie cr-II Materi 0	nonwoven) v not including ing and placi is per specific fotal (in nos.	weight of ba stitching in ng after loa ations and 3.00	ags 420g four ading 1.5	0.00 0.00 0.00 0.00 0.00 0.00

15/6/22 DE DE OF 1001

Executive Engineer

Executive Engineer
Rural Jorks Department
Work Division, Trivenigan

## **Estimate of Flood affected Road**

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM BLOCK :- NH-57 YADAV TOLA TO PASWAN TOLA -2722

CHHATAPUR

		T	QTY	UNIT	RATE	AMOUNT
S.No	SOR NO	DESRIPTION OF ITEMS		Cum	549.11	0.00
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	0.00	Cum		
2	A/R	Providing and laying of Brick bat obtained from chimney with machenical 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.	482.40	Cum	1922.87	927592.49
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.	0.00	Cum	3010.64	0.00
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 apper design in Single Roww(1000mm Dia).	15.00	m	4041.99	60629.87
		Total			Rs.	988222.36

JE

**Executive Engineer** Rural /orks Department Work Division, Trivenigani

### Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM NH-57 YADAV TOLA TO
OAD :- PASWAN TOLA -2722

	OF BOAU	LYOUNG LOTH
NAME	OF INC.	CHHATAPUR
D1	OCK :	CHRAIAFOR

	SOR NO	DESRIPTION OF ITEMS	om.	HATT T	RATE	AMOUNT
No		Sand filling in Foundation Trenches as per Drawing &	QTY	UNIT	10.1.1.	
1/1	12.3	recrimed openication				
-		Sand	0.00	Cum	116.85	0.00
1/2	A/R	Providing & laying Brick Bat	0.00			
		Providing and laying of Brick bat obtained from chimney				
1		With machemical means with all spreading grading to		1		
- 1		liedured stope and compacted at OMC to achains			1	
- 1		required density with all complete as per the direction				
		or engineer in charge.				
		Brick Bats	482.40	Cum	1032.00	497836.80
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)				
A.		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	180.0	00 Cum	516.42	92955.60
		9.5 mm to 2.36 mm @ 20 percent	72.0	0 Cun	411.33	29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening)	108.	00 Cun	185.94	20081.52
		Cost for 300 cum = a			-	142652.88
		Rate psr Cum = (a)/300		Cur	n	475.51
			0.0			0.00
		GSB Gr-II		- Cui	773.31	
					TOTAL	0.00
	<del></del>	Seigniorage Fees @10% of Basic Amount			TOTAL	497836.80 49783.68

JE

Executive Engineer Rural forks Department Mark Division, Trivenigani