

# 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 LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE

Actual Length of Road	11	1.999 Km
Flood affected Length of Road	=	0.980 Km
TOTAL COST OF PAVEMENT	Rs	2,180,694
TOTAL PROJECT COST	Rs	2,180,694

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

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

SINo	District Division Road Name		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	aul Triveniganj L053-T01 To Narahiya (VR8)			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	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 witfive years maintenance.	1.485	0.1	20	Chhatapur
7	Supaul	Triveniganj	<ol> <li>Construction of road from Raghunathpurto Faisya Kothi Road with five years maintenance.</li> </ol>	9.375	2.12	64	Chhatapur
8	Supaul	Triveniganj	Construction of road from Chunni to Charney world     Bank road with filve year maintenance	6.345	0.3	40	Chhatapur
9	Supaul	Triveniganj	Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance	7.75	0.3	45	Chhatapur
10	Supaul	Triveniganj	Construction of road from Lalilt 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
10	5 Supaul	Triveniganj	Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	3.175	0.33	23	Chhatapur
1	7 Supau	Triveniganj	L033-T01 To Lachmipur (VR9)	4.421	0.2	70	Chhatapur
1	18 Supaul Triveniganj 31 No Road to Darhariya Sima PMGSY via Pariya		31 No Road to Darhariya Sima PMGSY via Pariyadhar	3.54	0,15	40	Chhatapur
1	9 Supau	Trivenigan	Madhopur Market to West North SHW Birpur Road via Uddhampur Sima	1.645	0.06	35	Chhatapur
2	0 Supar	l Trivenigan	SH Bus Stand Paschim Bakho Tola & Paswan Tola Hote Huye Genda Nadi Evam Mirchaiya Nadi Par Karte Huye Harripatti SH Tak		0.025	15	Chhatapur
2	1 Supat	ul Trivenigan	j East of SHW Kalam Dealer House to Anand Chowk	1.5	0.12	35	Chhatapur
2	22 Supar	Trivenigan	nj Pradhanmantri Matiyari to Brahamotra Mushhari Tola	2.085	0.2	68	Chhatapur

#### जाँच प्रतिवेदन

भयंता 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 ही द्वारा कार्य प्रमंहल, त्रिवेणीगंज के अतर्गत वर्ष 2021—22 में बाढ़ /अतिवृष्टि से क्षतियस्त पथों के मोटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जाँच संबंधित सहायक अभियंता एवं य अभियंता के साथ मापी लिया गया जो निम्न हैं :--

me of Road :- LALIT GRAM RAILWAY STATION TO MAHADEV PATTI

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

ock :- Chhatapur

UNO.	ents of Wor	Nos.	L (m)	H (m)	(m) IN (Av.)	Quantity (m3)
1	Supply					
	and	4	25.00 (	1:7+1.5+1.6)	0.6+0.3+0.45)	72.00
	Carriage of brick	4	25.00	2+1.5+1.8)/	(0.3+0.45)/2	66.23
	bats	4	25.00	(1.5+2)/2	0.30	52.50
	July	2	20.00	1.50	(0.3+0.45)/2	22.50
					TOTAL=	213
2	Constructi					
	on of	5	30.0	2.5	0.15	56.25
	granular	1	30.0	3.0	0.15	13.5
	sub-base	5	30.00	2.50	0.15	56.25
		5	30.00	3.75	0.15	84.38
		5	30.00	3.75	0.15	84.38
		5	25.00	3.75	0.15	70.31
		5	25.00	3.75	0.15	70.31
		4	25.00	3.75	0.15	56.25
			Total	Qty. =		491.63

23/5/22

कार्यपालक अमियंता गामीण कार्य विभाग

ग्रामीण कार्य विभाग कार्य प्रमंडल, सुपौल। कार्यपालक अभियता ग्रामीण कार्य विभाग कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, त्रिवेणीगंज

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

अधीक्षण अभियंता सह अध्यक्ष जाँच समिति

ग्रामीण कार्य विभाग कार्य अंचल, मधेपुरा

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

		NAME OF ROAD	MAE FOR TE LITGRAM RA E YAER MAII	AILWAY ST.	ESTORATION OF ATION TO MAHAI	DEV		
		DIVISION	:-	TRIVENIGANJ				
_		BLOCK	1.	CHHATAPUR				
		Actual Length of Road	:-	1.999 Km				_
-	Flood Af	fected Length of Road	:-	0.980 Km				
$\vdash$	-							
_								
	Sr. No.		D	escription	Amount (In Rs.)			
	1	SAND BAG					-	
	2	BRICK BATS			409,571.31			
	3	EC BAG			-			
L	4	GEO BAG			-			
	5	GRANULAR SUB BASI	E				1,480,105.89	
	6	HUME PIPE					•	
					To	tal Cost =	1,889,677.20	
		Add:-Labour Cess @1% an	nt. =	:			18,896.77	
		Add:GST@12% on amt. =					226,761.26	
		Add:S.F.@ 10% on Materia	1 =				45,358.84	
		TOTAL RESTORAT	OI	N COST OF THI	E PROJECT	IN LACS	2,180,694	

Junior Engineer RWD (W) Division, Triveniganj

**Executive Engineer** 

RWD (W) Division, Triveniganj RWD (W) Division, Triveniganj

Vide letter 1 0 31185-4 (130) (alger (25/4) 23-291/2019-4849 dt -07/12/2021

Technically sonctioned for Ry 2180694.00/ (Twenty one loke Eighty thousand sin hundres ninety four super only) H/29/20/20

> Superintending Engineer **Aural Works Department** Works Circle Madher

					Det	ails of	Measu	rement				
	का	र्य का ब्योरा				संख्या			· ·			
	Dea	itail of Work				No	in adadi en lei il					
							in m.		In m.		In m	मात्रा
MEOLD		DET	AHEDE	4								Quantity
ME OF RO	OAD :-	DET	AILED E	STIMAE	FOR T	EMPROI	RY RESTO	DRATION OF RO	OAD EDG			
- 11 - 4				STAT	ION TO	MAHAI	DEV PATT	I WITH FIVE Y	OAD FRO	M LALITGRA	M RAILW	AY
m No. 1	Sand filling	in Foundati	on Trenche	es as per l	rawing 0 3			T WITH FIVE Y	AER MA	INTENANCE		
,				o as per L	awing &	echnical (	Specification					
t:-in .												
- 11 -						1	0		0 000		0.40	0.000
m No. 2	Providing	and laying o	f Brick bat	obtained fr	m abi						0 40	0 000
	compacte	d at OMC to	acheive re	quired den	sity with all	y with mac	henical mea	ns with all spreading	, grading to	required slope and		0.000
				1	sity with an	complete	as per the di	ns with all spreading rection of engineer in	n charge.	, , , , , , , , , , , , , , , , , , , ,		
H-in												
H:-in						4	25	(1.7+1.5+1.6)/3	1.600	(06+0.3+0.45)/3	0.450	72.000
						4	25	(2.0+1.5+1.8)/3	1.767	(0.3+0.45)/2		72.000
Hin							25			(0.5+0.45)/2	0.375	66.250
H:-in						4	25	(1.5+2.0)/2	1.750		0.300	52 500
						2	20		1 500	(0.3+0.45)/2	0.375	
										(10)2	03/5	22.500
			Less	s For Pipe		0		22/7x(0	6)2x2.5	(-)		213.250
em No. 3	Labour f	lling omet								Total (In Co.		0.000
	per appro	wed desire	ement bags	s with looca	I sand, stit	ching the I	pags and pla	cing including suppl	y of sutti and	Total (in Cum)		213.250
	ра аррі	ed desing.	specification	on and dire	ction of E/I		,	and morading supply	y or suth and	EC bag etc. all cor	nplete as	
CH:-in								,			1	
	(0.034=	2-4				2	0		2		0.6	0.00
	(0.034)	3=1 no. of E	C Bags)					lotal	in cum)		100	0.00
Item No. 4	Providen	a lavina and	FW: -			Total (in nos.)  m(Type A 300 GSM nonwoven) weight of bags 420g volume of filled bag 0.07m3.  ting stitching in four lines by approved pylon thread with attach.						0.00
3000 - 44.00	weight o	gliaying and f filled Goob	filling Geo I	bags of size	e 1m X 0.7	m(Type A	300 GSM n	Onwoven) weight of	hage 420-			0.00
	generate	or stacking a	nd placing	with local	sand inclu	ding stitchi	ng in four lin	conwoven) weight of les by approved nylo	n thread with	volume of filled bag	0.07m3.	
	and dire	ction of E/I (i	no placing a	atter loadin	g unloading	g and carn	age with help	es by approved nylo of trolley within 150	Om lead all o	omplete	and	
CH:-in		,	to during O	arriage of L	ocal sand	lead 0.5 kr	n)		cad an c	omplete as per spe	cifications	
						2	0		3.00			
	(0.076m	2-110			-				3.00		1.5	0.00
	(0.076111	3=1 no. of G	eo Bags)									0.00
	1							7				0.00
tem No. 5								lotal	(in nos.)			0.00
tem No. 5	Constru	tion of amou	des e. A. C.									0.00
tem No. 5	Constru	ction of grand	ular sub-ba	se by prov	ding well g	raded mat	erial, spread	ing in uniform lave-		1		
tem No. 5	Constru	ction of grand grader arrad pacting with	ular sub-ba ngement or smooth, wi	nse by prov	ding well g surface, m	raded mat iixing by m	erial, spread ix in place m	ling in uniform layers	with tracto	r l		
tem No. 5	Constru	ction of grand grader arrad pacting with ation Clause	ular sub-bangement or smooth wheel	nse by prov n prepared heel roller	iding well g surface, m to achieve	raded mat ixing by m the desire	erial, spread ix in place m ed density, c	ing in uniform layers ethod with rotavator omplete as per Tech	at OMC,			
tem No. 5	Constru	ction of grand grader arrade pacting with ation Clause	ular sub-bangement or smooth what 401. (Gr-II	se by prov prepared heel roller Material)	iding well g surface, m to achieve	the desire	ed density, c	ing in uniform layers ethod with rotavator omplete as per Tech	with tractor at OMC, nnical			
tem No. 5	Constru	ction of grand grader arrad pacting with ation Clause	ular sub-bangement or smooth wh 401.(Gr-II	se by prov n prepared heel roller Material)	ding well g surface, m to achieve	the desire	ed density, c	ing in uniform layers eethod with rotavator omplete as per Tech	at OMC, nnical			
lem No. 5	Constru	ction of grand grader arrain pacting with ation Clause	ular sub-ba ngement or smooth wi 401 (Gr-II	n prepared heel roller Material)	iding well g surface, m to achieve	the desire	ed density, c	ing in uniform layers iethod with rotavator omplete as per Tech	at OMC, nnical		0.150	56.25
tem No. 5	Constru	ction of grand	ular sub-ba ngement or smooth wi 401.(Gr-II	se by proving prepared theel roller Material)	ding well g surface, m to achieve	the desired	30 30 30	ing in uniform layers iethod with rotavator omplete as per Tech	2.5 3 2.5		0.150	56.250 13.500
tem No. 5	Constru	ction of grani grader arrai pacting with ation Clause	ular sub-ba ngement or smooth wi 401 ( <b>Gr-I</b> I	nse by proving prepared heel roller Material)	iding well g surface, m to achieve	the desire	30 30 30 30 30	ing in uniform layers iethod with rotavator omplete as per Tech	2.5 3 2.5 3.75		0.150 0.150	56.25 13.50 56.25
lem No. 5	Constru	ction of grani grader arrai pacting with ation Clause	ular sub-ba ngement or smooth wi 401.(Gr-II	n prepared heel roller Material)	iding well g surface, m to achieve	5 1 5 5	30 30 30 30 30 30	ing in uniform layers lethod with rotavator omplete as per Tech	2.5 3 2.5 3.75 3.75		0.150 0.150 0.150	56.25 13.50 56.25 84.37
tem No. 5	Constru	etion of grani grader arrai pacting with ation Clause	ular sub-ba ngement or smooth wi 401. (Gr-II	se by proving prepared heel roller Material)	iding well g surface, m to achieve	5 1 5 5 5 5 5 5	30 30 30 30 30	ing in uniform layers ethod with rotavator omplete as per Tech	2.5 3 2.5 3.75 3.75		0.150 0.150 0.150 0.150	56.250 13.500 56.250 84.37 84.37
	Constru mounted and corr Specifica	ation Clause	smooth wi	heel roller Material)	to achieve	5 1 5 5 5 5 5	30 30 30 30 30 25 25	omplete as per Tech	at OMC, nrical 2.5 3 2.5 3.75 3.75 3.75 3.75		0.150 0.150 0.150 0.150 0.150	56 250 13 500 56 250 84 377 84 3770 31
	Constru mounted and corr Specifica	ation Clause	smooth wi	heel roller Material)	to achieve	5 1 5 5 5 5 5	30 30 30 30 30 25 25	omplete as per Tech	at OMC, nrical 2.5 3 2.5 3.75 3.75 3.75 3.75		0.150 0.150 0.150 0.150 0.150 0.150 0.150	56.250 13.500 56.250 84.370 70.31 70.31 56.25
	Constru mounted and corr Specifica	ation Clause	smooth wi	heel roller Material)	to achieve	5 1 5 5 5 5 5	30 30 30 30 30 25 25	omplete as per Tech	at OMC, nrical 2.5 3 2.5 3.75 3.75 3.75 3.75		0.150 0.150 0.150 0.150 0.150 0.150	56 256 13 500 56 256 84 37 70 31 70 31 56 25
	Constru mounted and corr Specifica	ation Clause	smooth wi	Material)	to achieve	5 1 5 5 5 5 4 Pipe NP3	30 30 30 30 30 30 25 25 25 25	ing in uniform layers ethod with rotavator omplete as per Tech	at OMC, nrical 2.5 3 2.5 3.75 3.75 3.75 3.75		0.150 0.150 0.150 0.150 0.150 0.150 0.150	56.250 13.500 56.250 84.37 70.31 70.31 56.25
	Constru mounted and corr Specifica	ation Clause	smooth wi	heel roller Material)	to achieve	5 1 5 5 5 5 5	30 30 30 30 30 25 25	omplete as per Tech	at OMC, nrical 2.5 3 2.5 3.75 3.75 3.75 3.75		0.150 0.150 0.150 0.150 0.150 0.150 0.150	56 25 13 50 56 25 84 37 70 31 70 31 56 25

15/6/22

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Executive Engineer
Rural forks Department
Work Division, Trivenigan

### **Calculation of Seigniorage Fees**

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM LALITGRAM RAILWAY NAME OF ROAD :- STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE

BLOCK :-CHHATAPUR

.No	SOR NO	DESRIPTION 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	0.00	Cuin	110.03	0.00
		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.				
		Brick Bats	213.25	Cum	1032.00	220074.00
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		_		220014.00
_		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	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.	0.00	Cum	116.85	0.00
		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	400.0	-	-	
		9.5 mm to 2.36 mm @ 20 percent	180.0			92955.60
			72.0		411.33	29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening) Cost for 300 cum = a	108.0	00 Cum	185.94	20081.52
		Rate psr Cum = (a)/300				142652.88
		(a)/300		Cun	1	475.51
		GSB Gr-II	491.6			233772.41
		OOD G[-				233772.41
		Seigniorage Fees @10% of Basic Amount			TOTAL	
		Basic Amount			Say	45384.64

Procurive Engineer
Rural Forks Department
Work Division, Trivenigani

#### **Estimate of Flood affected Road**

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM BLOCK :-LALITGRAM RAILWAY STATION TO MAHADEV PATTI WITH FIVE YAER MAINTENANCE

CHHATAPUR

No	SOR NO	DESRIPTION 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 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.	213.25	Cum	1922.87	410052.03
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.	491.62 he on	25 Cum	3010.64	1480105.8
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP: as per design in Single Roww(1000mm Dia).	0.00	0 m	4041.99	0.00
_		Total			Rs.	1890157.

Executive Engineer
Rural forks Department
Work Division, Trivenigani