

# 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 GULAB CHAND MUKHIA HOUSE TO MULLAH TOLA

Flood affected Length of Road		
TOTAL COST OF PAVEMENT	Rs	933,473
TOTAL PROJECT COST		

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

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

3	Supaul	Triveniganj	Ranipatti WN 6 To Sada Tola	1.128	0.15	9.5	hhatapur	
4	Supaul	Triveniganj	Paswan Tola To pal tola	1	0.06	12	Chhatapur	
6	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	
7	Supaul	Triveniganj	Jadiya Balua Path SHW se purab swasthya up kendra	1.99	0.3	12.5	Chhatapur	
8	Supaul	Triveniganj	Chauhan, Mandal, Nauniya tola  Madhopur kaji tola paschim kujrahi to SHW birpur Sukhai chowk tak	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	Triveniganj	Mahaddipur Bazar to Batrahi Muslim Tola	0.3	0.4	3.5	Chhatapur	
31	Supaul	Triveniganj	H O Mano Mandal to Ram Tola	0.7	0.1	15	Chhatapur	
32	Supaul	Triveniganj	Chhatapur laxmipur sima se to Khatbe tola Mahadalit tola khunti tak	3	0.05	45	Chhatapur	
33		Triveniganj	Bairia Pula से Md Ganj Sima H O Ravin Thakur	0.9	0.085	45	Chhatapur	
34	Supaul	Triveniganj	Brahaman Tola PMGSY Udhampur Bhagwatipur to Ram Tola	1	0.3	28	Chhatapu	
35		Triveniganj	Cinch to Sah Tola	1.2	0.3	18.5	Chhatap	
36		Triveniganj	Gulab Chand Mukhia House to Mullah Tola	1.8	0.25	16.5	Chhatapu	
_		Triveniganj	N H 57 Yadav Tola to Paswan Tola-2722	1	0.15	9.75	Chhatapu	
37		Triveniganj	Kariyapatti to Rajeshwari path	3	0.38	22	Chhatapi	
38	Supaul		Rachan Sah Ke Ghar To Dahariya Sima Tak	2.27	0.25	18	Chhatap	
39	Supaul	Triveniganj	Accesi Tola Se Dakshin to SHW Amar Chowk	1.05	0.3	58	Chhatap	
40	Supaul	Triveniganj	via Manadalit Told Yees	2	0.215	18.5	Chhatag	
41	Supaul	Trivenigan		1.53	0.2	22.5	Chhata	
19	Supaul	Trivenigan	Chandra Ghar Se Purab		0.2	29	Chhata	
42	Supaul	Trivenigan	Mahadalit Tola to Sanata Fancing to	2.2	0.2	20	Chhata	
43	Supau	Trivenigan	31 Nosadak Laxman Mehta Ke Ghar Hote Huye to Md. Ganj Hote Sima Sadak Tak	1.6	_	25	Chhata	
44	Supau	Trivenigan	Main Canal East to Paswan Tola	2.37	0.3	18.5	Chhat	
45	Supau	l Trivenigan	NH 57 to Nuniya Tola	5.1	0.35	.7.5	Chhat	
46	-	-	House of Manilal Paswan Tola to Adibasi Tola	2.7	0.54	12.5	Chhat	
47			Rajeshwari OP to Tamua	5.1	0.2	48.86	Chhat	
48	1			2.75	0.2	40.00	,	

जाय प्रतिवदन वंता प्रमुख, ग्रामीण कार्य विमाग, बिहार, पटना के पत्रांक—1890 दिनांक—22.04.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विमाग, कार्य अंचल, मधेपुरा की अध्यक्षता में गठित चार येय कमिटी द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021—22 में बाद/अतिवृष्टि से क्षतिग्रस्त पथों के मोटरेबुल कार्य के क्ल कार्य मदों की मात्रा का स्थलीय जाँच संबंधित सहायक ता एवं कनीय अभियंता के साथ मापी लिया गया जो निम्न है :—

ie of Road :- GULAB CHAND MUKHIA HOUSE TO MULLAH TOLA. sion Name: Rural Works Department, Works Division, Triveniganj k:- Chhatapur

lo.	liems of Wor	Nos.	I. (m)	B (m)	(m) IN (Av.)	Quantity (m3)
	Filling of local sand					
-		5	30.00	1.5	(0.6+0.2)/2	90.00
10°Y		5	30.00	1.5	(0.6+0.2)/2	90.00
(53)		2	30.00	1.5	(0.9+1.2)/2	36.0090
1000					TOTAL=	216:00
-07E					Total Qty =	216.00
200	EC bag,					274.5
100		2	50	2	0.6	120
250 y					120/.034	3530
May S.				Tota	No. of EC Bags =	3530.00
125 ·	brick bats					
-		5	25.0	1.2	0.6	90
201		5	25.0	1.2	0.6	90
P. A.		5	25.0	1.2	0.6	90
1					Total Qty.	270.00

कार्यपालक अभियंता ग्रामीण कार्य विमाग

कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता

ग्रामीण कार्य विमाग कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, त्रिवेणीगंज

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

> 1 /33/25/2 अधीक्षण अभियंता सह अध्यक्ष जाँच समिति ग्रामीण कार्य विभाग

कार्य अंचल, मधेपुरा

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF

NAME OF ROAD :-ROAD FROM GULAB CHAND MUKHIA HOUSE TO MULLAH

TOLA

DIVISION : TRIVENIGANI

BLOCK :- CHHATAPUR

Flood Affected Length of Road :- 0.375 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	150,731.9028
2	BRICK BATS	519,174.90
3	EC BAG	127,437.38
4	GEO BAG	-
5	GRANULAR SUB BASE	-
6	HUME PIPE	-
	Total Cost =	797,344.18
	Add:-Labour Cess @1% amt. =	7,973.4
	Add:GST@12% on amt. =	95,681.3
	Add:S.F.@ 10% on Material =	32,473.7
	TOTAL RESTORATION COST OF THE PROJECT IN LAC	S 933,47

**Junior Engineer** RWD (W) Division, Triveniganj Assistant Engineer

RWD (W) Division, Triveniganj

**Executive Engineer** RWD (W) Division, Triveniganj

Vide Letter 130 71 110 1 110 110 110 110 1 23-291 2019-4849 Technically Sanctioned for reupens 9,33,473.00-that is Nine Lakh thlody three thousemed fores turn dozed Seventy three Rupers vorly df-07/12/2021

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

			Details o	of Meas	uren	nent			
पैमाईस									
कार्य का ब्यौरा Deatail of Work					संख्या No.	लम्बाई in m.	चौड़ाई In m.	ऊँचाई In m.	मात्रा Quantity
AME OF RO	AD.	DETA	ILED ESTIMAE I	FOR TEM	DDAD	V DESTO	DATION	OF ROAD F	ROM
			GULAR CHA	ND MUK	на н	OUSE TO	MULLA		
em No. 1	and filling	in Foundati	on Trenches as per D	Travelog & T	ochnica	Specificati	ion		
			on frenches as per L	nawing & I	ecinica	Opecinicati		1	
CH:-in .						T 20	1 4 500	(0.6+0.2)/2	90.000
CH:-in .					5	30	1.500	(0.6+0.2)/2	90.000
CH:-in .					5	30	1.500	(0.9+1.2)/2	94,500
711.	-				2	30	1.500	1(0.5*1.2)/2	274.500
tem No. 2	Providing :	and laving of	f Brick bat obtained fr		- Ab	achonical r	magne with	all enreading	21 11000
	grading to	required slo	pe and compacted a	om cnimne	y with m	auired den	sity with all	complete as	
	per the dire	ection of end	gineer in charge.	. ONC to ac	JIEIVE IC	quired do	<b>,</b>		
CH:-in					5	25	1.200	0.600	90.000
CH:-in					5	25	1.200	0.600	90.000
CH:-in					5	25	1,200	0.600	90.000
		-				+			270.000
						22/7	x(0.6)2x2.5	(-)	0.000
			Less For Pipe		0	2211		l (in Cum)	270,000
									270.000
Item No. 3	Labour fill	ing empty co	ement bags with looc	al sand, stil	tching th	e bags and	placing inc	ion of E/I	
	of suth an	d EC bag et	c. all complete as pe	r approved	desing,	specificatio	n and direct	ion or En	
Ciliin					2	50	2	0.6	120.00
CH:-in							tal (in cum)		120.00
	10.024-2	-44 5	· O D \				tar (iii barry		3529.41
	(0.034m3	8=1 no. of E	C Bags)			To	tal (in nos.)		3530.00
	T					10	tar (mr.noo.)		
Item No. 4			Silina Ona hana afair	1 V 0 7	m/Type	A 300 GS	M nonwove	n) weight of	
Item No. 4	Providing	laying and	filling Geo bags of size	re 1m X 0.7	m(Type	A 300 GS	M nonwove	n) weight of sand including	
Item No. 4	bags 420	g volume of	filled bag 0.07m3. w	eight of fille	d Geo b titchina	ags 126 Kg machine ar	d generator	stacking and	
Item No. 4	bags 420 stitching	g volume of in four lines fter loading	filled bag 0.07m3, w by approved nylon th uploading and carries	eight of fille hread with s ae with help	d Geo b titching of trolle	ags 126 Kg machine ar y within 15	d generator om lead all	stacking and complete as	
Item No. 4	bags 420 stitching	g volume of in four lines fter loading	filled bag 0.07m3, w by approved nylon th uploading and carries	eight of fille hread with s ae with help	d Geo b titching of trolle	ags 126 Kg machine ar y within 15	d generator om lead all	stacking and complete as	
	bags 420 stitching	g volume of in four lines fter loading	filled bag 0.07m3. w	eight of fille hread with s ae with help	d Geo b titching of trolle	ags 126 Kg machine ar y within 15	d generator om lead all	stacking and complete as	0.00
CH:-in	bags 420 stitching	g volume of in four lines fter loading	filled bag 0.07m3, w by approved nylon th uploading and carries	eight of fille hread with s ae with help	d Geo b titching of trolle age of L	ags 126 Kg machine ar y within 15 ocal sand I	od generator Om lead all ead 0.5 km	stacking and complete as	0.00
	bags 420 stitching placing a per spec	g volume of in four lines fter loading ifications an	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (incl	eight of fille hread with s ae with help	d Geo b titching of trolle age of L	ags 126 Kg machine ar y within 15 ocal sand I	od generator Om lead all ead 0.5 km	stacking and complete as	
	bags 420 stitching placing a per spec	g volume of in four lines fter loading	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (incl	eight of fille hread with s ae with help	d Geo b titching of trolle age of L	ags 126 Kg machine ar ey within 15 ocal sand I	od generator Om lead all ead 0.5 km	stacking and complete as	0.00
	bags 420 stitching placing a per spec	g volume of in four lines fter loading ifications an 3=1 no. of G	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (incl Geo Bags)	eight of fille hread with s ge with help luding Carri	d Geo b titching o of trolle age of L	ags 126 Kg machine ar ey within 15 ocal sand I	otal (in nos.	stacking and complete as	0.00
CH:-in	bags 420 stitching placing a per spec	g volume of in four lines fter loading ifications an	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)	eight of fille nread with s ge with help luding Carri	d Geo b titching o of trolle age of L	ags 126 Kg machine ar ey within 15 ocal sand I 0	od generator om lead all ead 0.5 km 3.00  otal (in nos.	stacking and complete as	0.00
	bags 420 stitching placing a per speci (0.076m3	g volume of in four lines fter loading ifications an s=1 no. of G	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)	eight of fille nread with s ge with help luding Carri	d Geo b titching of trolle age of L 2	ags 126 Kg machine ar ey within 15 ocal sand I  0  To material, sp	otal (in nos.	stacking and complete as	0.00
CH:-in	bags 420 stitching placing a per spec (0.076m3	g volume of in four lines fter loading ifications an s=1 no. of G	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)	eight of fille nread with s ge with help luding Carri  viding well g er arrangen	d Geo b titching of trolle age of L 2 graded r nent on p	ags 126 kg machine ar ey within 15 ocal sand I  0  To material, sp prepared si	otal (in nos.	stacking and complete as	0.00
CH:-in	bags 420 stitching placing a per spec (0.076m3	g volume of in four lines fter loading ifications an s=1 no. of G	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)	eight of fille nread with s ge with help luding Carri  viding well g er arrangen	d Geo b titching of trolle age of L 2 graded r nent on p	ags 126 kg machine ar ey within 15 ocal sand I  0  To material, sp prepared si	otal (in nos.	stacking and complete as	0.00
CH:-in	bags 420 stitching placing a per spec  (0.076m3  Construct uniform to by mix in roller to see	g volume of in four lines feer loading ifications an all all and all all all all all all all all all al	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)  ular sub-base by pro- ractor mounted grade and with rotavator at desired density, con-	eight of fille nread with s ge with help luding Carri  viding well g er arrangen	d Geo b titching o of trolle age of L 2 graded r nent on p compacer Techr	ags 126 kg machine ar ey within 15 ocal sand I	otal (in nos.	stacking and complete as  1.5  1.5	0.00
CH:-in	bags 420 stitching placing a per spec  (0.076m3  Construct uniform to by mix in roller to see	g volume of in four lines fter loading ifications an s=1 no. of G	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)  ular sub-base by pro- ractor mounted grade and with rotavator at desired density, con-	eight of fille nread with s ge with help luding Carri  viding well g er arrangen	d Geo b titching of trolle age of L 2 graded r nent on p	ags 126 kg machine ar ey within 15 ocal sand I  0  To material, sp prepared si	otal (in nos.  otal (in nos.  otal (in nos.  reading in  urface, mixin  nooth whee  fication Clau	stacking and complete as  1.5  1.5  1.5  2 0.160	0.00
CH:-in	bags 420 stitching placing a per speci  (0.076m3  Construc uniform i by mix ir roller to a 401.(Gr-	g volume of in four lines fter loading ifications an s=1 no. of G stion of gran layers with the place methal in place methal in the series of	filled bag 0.07m3. w by approved nylon the unloading and carriad d direction of E/I (income Geo Bags)  The sub-base by pro- ractor mounted grade and with rotavator at desired density, con	eight of fille nread with s ge with help luding Carri  viding well y er arrangen OMC, and nplete as po	d Geo b titching o of trolle age of L 2 graded r nent on p compacer Techn 1	ags 126 Kg machine ar ey within 15 ocal sand I  o  Tr material, sp prepared si ting with sr nical Specifical	otal (in nos.  otal (	stacking and complete as  1.5  1.5  1.5  Total (Cu	0.00
CH:-in	bags 420 stitching placing a per special construction with the construction of the con	g volume of in four lines fter loading ifications an s=1 no. of G stion of gran layers with the place methal in place methal in the series of	filled bag 0.07m3. w by approved nylon the unloading and carriad d direction of E/I (income Geo Bags)  The sub-base by pro- ractor mounted grade and with rotavator at desired density, con	eight of fille nread with s ge with help luding Carri  viding well y er arrangen OMC, and nplete as po	d Geo b titching o of trolle age of L 2 graded r nent on p compacer Techn 1	ags 126 Kg machine ar ey within 15 ocal sand I  o  Tr material, sp prepared si ting with sr nical Specifical	otal (in nos.  otal (	stacking and complete as  1.5  1.5  1.5  Total (Cu	0.00
CH:-in	construct uniform by mix ir roller to 401.(Gr-	g volume of in four lines fter loading ifications an all all and all all all all all all all all all al	filled bag 0.07m3. w by approved nylon the unloading and carriag d direction of E/I (included) Geo Bags)  ular sub-base by pro- ractor mounted grade and with rotavator at desired density, con-	eight of fille nread with s ge with help luding Carri  viding well y er arrangen OMC, and nplete as po	d Geo b titching o of trolle age of L 2 graded r nent on p compacer Techn 1	ags 126 Kg machine ar ey within 15 ocal sand I  o  Tr material, sp orepared si ting with sr nical Specifical S	otal (in nos. ot	stacking and complete as  1.5  1.5  Total (Cugle	0.00 0.00 0.00
CH:-in	construct uniform by mix ir roller to 401.(Gr-	g volume of in four lines fter loading ifications an s=1 no. of G stion of gran layers with the place methal in place methal in the series of	filled bag 0.07m3. w by approved nylon the unloading and carriad d direction of E/I (income Geo Bags)  The sub-base by pro- ractor mounted grade and with rotavator at desired density, con	eight of fille read with s ge with help luding Carri  viding Well ger arrangen OMC, and nplete as po	d Geo b titching o of trolle age of L 2 graded r nent on p compacer Techn 1	ags 126 kg machine ar ey within 15 ocal sand I  or naterial, sp orepared si ting with sr nical Specifical Spec	otal (in nos. ot	stacking and complete as  1.5  1.5  1.5  Total (Cu	0.00 0.00 0.00 0.00

m) 0.00 M(A,6.2

Executive Engineer
Rural Forks Department
Work Division, Trivenigani

### Calculation of Seigniorage Fees

NAME OF ROAD:BLOCK:
DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM GULAB CHAND MUKHIA
CHHATAPUR

10	SOR NO	DECRUMENT								
1/1	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification	QТ	Y	UNIT	RA	TE	AM	IOUNT	
-		Technical Specification  Sand					1			
2/2	A/R		27	4.50	Cum	116.	85	32	075.33	
214		Providing & laying Brick Bat								
		Providing and laying of Brick bat obtained from chimney with machenical masses its bat obtained from chimney						1		
		with machenical means with all spreading, grading to required slope and compacted at OMC to acheive	1		1	1		1	1	
		required density with all complete as per the direction of engineer in charge	1			1		1	1	
× 1		- Bricer in charge.	1			1		1		
		Brick Bats	1,	70.00	Cun	103	2.00	2	78640.00	
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		10.00						
		Sand	1	120.00	Cu	m 1	16.85		14022.00	1
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 bapproved 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)	- 1							
		Sand		0.0	0 0	um	116.8	35	0.00	
5/9	401	graded material, spreading in uniform layers with tract mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC and compacting with smooth wheel roller to achieve desired density, complete as per Technical Specifical Clause 401.	the tion			,				
		For Grading II Material (with Coarse Sand Screening	1)	1	-					
		Unit = Cum		+	-		-			
		Taking output = 300 cum		_			-		-	_
		Coarse graded granular sub-base material as per T	able	9						
		400.2		1	80.00	Cum	5	16.42	92955	.60
		53 mm to 9.5mm @ 50 percent			72.00	Cum	1	11.33	2961	5.76
		9.5 mm to 2.36 mm @ 20 percent		-		-	+-	185.94	-	1.5
		2.36 mm below @ 30 percent (coarse Sand Screen	ning	)   '	08.80	Cum	+	100.04	1426	_
	-	Cost for 300 cum = a		+		Cum	+			5.51
		Rate psr Cum = (a)/300			0.00	Cun	_	475.5		.00
		Itale por community		-	0.00	Cun	+	410.0	`	00.0
		and Call				-	+	TOTA		
		GSB Gr-II				-	+	Say		473
		Seigniorage Fees @10% of Basic Amount						Sa		
	A 10161	Seigniorage rees established took took				EE	(	<u>^\</u>	76.2	1
	1515	*AE			FY	ecuti	IP E	ngir	reel	
	JE				Dura	1 Jos	ks I	epa	rtment	

Executive Engineer
Rural Torks Department
Work Division, Trivenigani

### Estimate of Flood affected Road

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM BLOCK :-

CHHATAPUR

No	SOR NO	DESRIPTION OF ITEMS	OTTY T	LINET I	RATE	AMOUNT
1	301.5	Sand filling in Foundation Treaches	QTY 274.50	Cum	549.11	150731.90
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.	270.00	Cum	1922.87	519174.90
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	3530.00	nos.	36.10	127437.38
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	3010.6	4 0.00
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 per design in Single Roww(1000mm Dia).	as 0.00	0 m	4041.9 Rs	
		Total			RS	. /3/344.1

JE

EE
Executive Engineer
Rural Yorks Department

Work Division, Trivenigani