

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 RAGHUNATHPUR TO FASIYA KOTHI ROAD WITH FIVE YEAR MAINTENANCE

Actual Length of Road	=	9.375 Km
Flood affected Length of Road	=	0.240 Km
TOTAL COST OF PAVEMENT	Rs	2,832,064
TOTAL PROJECT COST	Rs	2,832,064

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 Flood	e Res	entative storation nount(In Lac)	Block	41.0
1	Supaul	Triveniganj	Chunni world bank to choudhary tola(sahpur), girdharpatti hat via mirrapatti.	9.3	0.3		60	Chhatapu	
2	Supaul	Triveniganj	Mahdipur Bazar to Chatapur (Boader)	1	0.25		18	Chhatapu	11
3	Supaul	Triveniganj	L053-T01 To Narahiya (VR8)	2.585	585 0.35		19	Chhatap	ur
4	Supaul	Triveniganj	1.Construction of road from Lalji Chauk Harihar Path to Sohta Kachni Road with five years maintenance	11.97	97 0.3		44 Chha		pur
5	Supaul	Triveniganj	Construction of road from Chhatapur bus stand to Bhatta Bari Road with five years maintenance.	3.18	0.2	2	36	Chhata	pur
6	Supaul	Triveniganj	Construction of road from ChhatapurAnant Chowkto Bhatta Bari Road witfive years maintenance.	1.485	0.	1	20	Chhat	apur
7	Supaul	Triveniganj	2.Construction of road from Raghunathpurto Falsya Kothi Road with five years maintenance.	9.375	2.:	12	64	Chhai	apur
8	Supaul	Triveniganj	Construction of road from Chunni to Charney world Bank road with filve year maintenance	6.345	0	.3	40	Chha	tapur
9	Supaul	Triveniganj	Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance	7.75	().3	45		atapur
10	Supaul	Triveniganj	Construction of road from Lalilt gram Railway Station to Mahadev Patti with five year maintenance	on 2.055	5 0.4		34	Chh	natapur
11	Supaul	Triveniganj	Near House of Bishwanath Thakur TO Brahaman Tola, Pratapganj Pariyahi Road Middle MMGSY[SC]hool Lalganj	2	(0.15	50 C		hatapur
12	Supaul	Triveniganj	State Highway Se Ramjanki Chowk Middle School	8.165	5	0.4	34		nhatapur
13	Supaul	Triveniganj	Pariyahi Pradhanmantri Sadak Se Pachim Ranipatti	ul 5.03	5.035 0.15		0.15 75		hhatapur
14	Supaul	Triveniganj	Bari Maszid Jhakhargadh TO Purab Mahadalit Tola Vi Chohan, Sah, Mansuri, Mahadalit Tola	ia 2		0.2	.2 15		Chhatapur
15	Supaul	Triveniganj	SHW From House of Chhutharu Sahni to NH57 Naaharpul Via Mehta Mahadalit Tola.	3.5	55	0.15 12		.2	Chhatapur
16	Supaul	Triveniganj	Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	ia 3.1	.75	0.33	7	23	Chhatapur
17	Supaul	Triveniganj	L033-T01 To Lachmipur (VR9)	4.4	421	0.2		70	Chhatapur
18	Supaul	Triveniganj	31 No Road to Darhariya Sima PMGSY via Pariyadh	nar 3	3.54 0.1		0.15 40		Chhatapu
19	Supaul	Triveniganj	Madhopur Market to West North SHW Birpur Road Uddhampur Sima	via 1	1.645		0.06 35		Chhatapi
20	Supaul	Triveniganj	SH Bus Stand Paschim Bakho Tola & Paswan Tola H Huye Genda Nadi Evam Mirchaiya Nadi Par Karte H Harripatti SH Tak	lote luye	4.77	0.025		15	Chhatap
21	Supaul	Triveniganj	Dealer House to Apand Choy	wk	1.5	0.12).12 35		Chhata
-	Supaul	Triveniganj	j Pradhanmantri Matiyari to Brahamotra Mushhari	Tola	2.085	0.2		68	Chhata

यता 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 होता कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021—22 में बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों के मोटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जाँच संबंधित सहायक अभियंता एवं स्थाभियंता के साथ मापी लिया गया जो निम्न है :—

e of Road :- RAGHUNATHPUR FAISYA KOTHI ROAD

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

k :- Chhatapur

No.	Items of Works	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)
1	BRICK BATS		-			
		2	25	3	0.6	90.00
		4	30	3.2	0.3	115.20
		10	30	3.75	0.45	506.00
					Total Qty. =	711.79
2	GSB GR-2					
		18	30	3.85	0.15	311.85
					Total Qty. =	311.85
3	HP 1000MM DIA					
		4	3	2.5		30.00
		12			Total Qty. =	30.00

300.25

15/21

कार्यपालक अभियंता ग्रामीण कार्य विमाग कार्य प्रमंडल, सुपौल। कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, बीरपुर। कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, त्रिवेणीगंज

लक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राक्कलन तैयार कराकर प्राधिकार 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

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF

ROAD FROM RAGHUNATHPUR TO FASIYA KOTHI ROAD NAME OF ROAD :-

WITH FIVE YEAR MAINTENANCE

TRIVENIGANI DIVISION:

CHHATAPUR BLOCK :-

Actual Length of Road :-9.375 Km Flood Affected Length of Road :-0.240 Km

Add:S.F.@ 10% on Material =

Amount (In Rs.) Sr. No. Description SAND BAG 1,368,025.86 **BRICK BATS EC BAG** 4 **GEO BAG** 938,868.08 5 **GRANULAR SUB BASE** 121,259.74 **HUME PIPE** 6 2,428,153.69 Total Cost = 24,281.54 Add:-Labour Cess @1% amt. = 291,378.44 Add:GST@12% on amt. =

TOTAL RESTORATION COST OF THE PROJECT IN LACS

Junior Engineer RWD (W) Division, Triveniganj

RWD (W) Division, Trivenigani Chalepyo.

88,250.41

2,832,064

Executive Engineer RWD (W) Division, Triveniganj

Viole Letter 150 Holso 4 (150) Alau (02) 23-291/2019-4849

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and story fores suspess.)

11/25/26/2/ Superintending Engineer **Rural Works Department** Works Circle Madher

		पैमार्डस	CIIC	Suicin	s of Mea	Detair	
		प्रमाहस	-				
मात्रा Quantity	In m.	चौड़ाई In m.	तम्बाई in m.	संख्या No.		का ब्यौरा	व
ROM	DOADE				1	ail of Work	De
	RUADI	ATION OF	RESTOR	APRORY	E FOR TE	DETAILED ESTIMA	
•	VE YEAR) WITH FI	THI ROAL	IVA KO	AE FOR TO	DETAILED ESTIMA	
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		n	Specificatio	Technical	17		
				Technos.	per Drawing	in Foundation Trenches as	m No. 1 Sand filling
0.000	1.20	2.500	0				M No. 1 Joans IIII
0.000		2.00		1			
		ans with all	-hanical me				H:-in .
	with all	uired density	acheive real	ey with ma	ned from chim	nd laying of Brick bat obtain	
90.000			action to rod	at OMC to	nd compacted	nd laying of Brick bat obtain grading to required slope ar	em No. 2 Providing
		3.000	25	2	eer in charge.	grading to required slope and s per the direction of engine	spreadin
115.200	0.300	3.200	30	-			
506.250	0.450	3.750	30	4			H:-in
711.450			- 30	10			H:-in
711.450	Cum)	Total (in					H:-in
	19	acing includi	1				
	ection	cation and di	bags and pi	itching the	loocal sand,	ng empty cement bags with	
		Callon and	sing, specin	proved de	plete as per a	ng empty cement bags with utli and EC bag etc. all com	m No. 3 Labour f
0.00	0.45	1.5	TO		•	Jul and LO bag etc. all com	supply o
0.00		n cum)		2			of E/I H:-in
			, ota. (
0.00							r1.*III
0.00		n nos.)	Total (i			1 no. of EC Bags)	
	eight of	n nos.)	Total (i			1 no. of EC Bags)	(0.034m
	eight of	nonwoven) w	200 GSM (7 m(Type A	of size 1m X 0		(0.034m
		nonwoven) with local sand	300 GSM r gs 126 Kg w			aying and filling Geo bags o	(0.034m
	lead	nonwoven) whith local sand the sand the sand gen within 150n	300 GSM r gs 126 Kg w itching mach	ead with st	roved nylon th	aying and filling Geo bags o	(0.034m em No. 4 Providin bags 42
	lead	nonwoven) whith local sand the sand the sand gen within 150n	300 GSM r gs 126 Kg w itching mach	ead with st	roved nylon th	aying and filling Geo bags o	(0.034m em No. 4 Providin bags 42
	lead	nonwoven) whith local sand the sand the sand gen within 150n	300 GSM r gs 126 Kg w itching mach	ead with st	roved nylon th	aying and filling Geo bags o	(0.034m em No. 4 Providin bags 42
	lead	nonwoven) whith local sand the sand the sand gen within 150n	300 GSM r gs 126 Kg w itching mach	ead with st	roved nylon th	aying and filling Geo bags o	(0.034m em No. 4 Providin bags 42
	lead	nonwoven) whith local sand the sand the sand gen within 150n	300 GSM r gs 126 Kg w itching mach	ead with st	roved nylon th	aying and filling Geo bags o	em No. 4 Providing bags 42 including stacking all compositions.
	lead	nonwoven) whith local sand the sand the sand gen within 150n	300 GSM r gs 126 Kg w itching mach	ead with st	roved nylon th	aying and filling Geo bags o	em No. 4 Providing bags 42 including stacking all comp
0.00	lead	nonwoven) w ith local sand nine and gen y within 150n Local sand I	A 300 GSM r gs 126 Kg w itching mach nelp of troller Carriage of	ead with st	roved nylon th	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by appr and placing after loading unlo e as per specifications and	em No. 4 Providing bags 42th including stacking all composition. H:-in
0.00	lead	nonwoven) whith local sand nine and gen y within 150n Local sand I	A 300 GSM r gs 126 Kg w itching mach nelp of trolle Carriage of	ead with st riage with I I (including	roved nylon th oading and ca direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by apprind placing after loading unlose as per specifications and no. of Geo Bags)	em No. 4 Providing bags 42 including stacking all complem) H:-in (0.076m)
0.00	lead	nonwoven) which local sand inner and gen y within 150n Local sand I	300 GSM r gs 126 Kg w itching mach nelp of troller Carriage of	ead with st riage with I I (including	roved nylon th oading and ca direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by apprind placing after loading unlose as per specifications and no. of Geo Bags)	em No. 4 Providing bags 42 including stacking all complem) H:-in (0.076m)
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0.00	lead	nonwoven) whith local sand inner and gen y within 150n Local sand I lo	300 GSM r gs 126 Kg w itching mach nelp of troller Carriage of Total (ead with st riage with I I (including	roved nylon the oading and call direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by apprind placing after loading unlose as per specifications and 1 no. of Geo Bags)	em No. 4 Providing bags 42 including stacking all complem) H:-in (0.076m)
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0.00 0.00 0.00	n lead ead 0.5	ith local sand local s	300 GSM r gs 126 Kg w itching mach nelp of troller Carriage of Total (ead with st riage with I I (including	roved nylon the oading and call direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by apprind placing after loading unlose as per specifications and 1 no. of Geo Bags)	(0.034m em No. 4 Providin bags 42' including stacking all comp km) H:-in (0.076m em No. 5 uniform by mix it roller to
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0.00 0.00 0.00	n lead ead 0.5	monwoven) with local sand ine and gen y within 150n Local sand I local	Total (epared surface g with smooth	ead with striage with I (including ment on precompacting Technica 18	roved nylon the oading and call direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by apprind placing after loading unlose as per specifications and 1 no. of Geo Bags) Ters with tractor mounted grace method with rotavator hieve the desired density, Material)	em No. 4 Providing bags 42 including stacking all complem) H:-in (0.076m em No. 5 uniform by mix in roller to 401.(Gr
0.00 0.00 0.00 311.85 311.85	n lead ead 0.5	in nos.) ce, mixing th wheel ion Clause 3.85 To n in Single	Total (epared surfar g with smoo al Specificat 30 as per desig	ead with striage with I (including ment on precompacting Technica 18	roved nylon the oading and call direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by appring placing after loading unless as per specifications and 1 no. of Geo Bags) The with tractor mounted grace method with rotavator hieve the desired density, Material) and Laying Reinforced Center of the strength	em No. 4 Providing stacking all comp km) H:-in (0.076m) em No. 5 uniform by mix it roller to 401. (Green No. 6 Providing to 1.0 cm)
0.00 0.00 0.00	n lead ead 0.5	in nos.) ce, mixing th wheel ion Clause 3.85 To n in Single	Total (epared surface g with smooth	ead with striage with I (including ment on precompacting Technica 18	roved nylon the oading and call direction of E	aying and filling Geo bags of volume of filled bag 0.07m; titching in four lines by apprind placing after loading unlose as per specifications and 1 no. of Geo Bags) Ters with tractor mounted grace method with rotavator hieve the desired density, Material)	em No. 4 Providing stacking all comp km) H:-in (0.076m) em No. 5 uniform by mix it roller to 401. (Green No. 6 Providing to 1.0 cm)

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Estimate of Flood affected Road

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM RAGHUNATHPUR TO FASIYA KOTHI ROAD WITH FIVE YEAR MAINTENANCE

BLOCK :-

CHHATAPUR

No	SOR NO	DESRIPTION OF ITEMS	QTY	UNIT	R	ATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	0.00	Cum	54	9.11	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.	711.45	Cum	19	922.87	1368025.86
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 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)	0.00	Ear	ch	172.18	0.00
5	401	Construction of granular sub-base by providing well graded material, spreading in uniform layers with track 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 Specification Clause 401.	311.	850 C	cum	3010.6	
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe N per design in Single Roww(1000mm Dia).	P3 as 30	0.00	m	4041 Rs	
		Total					

JE

Executive Engineer Rurate Jorks Department Work Division, Trivenigani

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM RAGHUNATHPUR TO NAME OF ROAD :- FASIYA KOTHI ROAD WITH FIVE YEAR MAINTENANCE

BLOCK :- CHHATAPUR

S.No	SOR NO	DESRIPTION OF ITEMS	QTY	UNTI		RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing &	4	TONI.	-	KATE	AMOUNT
		Technical Specification					
2/2	A/R	Sand	0.00	Cu	m	116.85	0.00
212	A/K	Providing & laying Brick Bat Providing and laying of Brick bat obtained from chimney		-	_		
	1	with machenical means with all spreading, grading to	1			1	
		required slope and compacted at OMC to acheive	1				
		required density with all complete as per the direction		1			
	1	of engineer in charge.	i	1		1	· ·
		Brick Bats	711.45	C	ım	1032.00	734216.40
3/7	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutil and EC bag etc. all complete as per approved desing, specification and direction of E/I	,,,,,,			7002.00	7010.40
		Sand	0.00	С	um	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	0.0	0	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.	e				
		For Grading II Material (with Coarse Sand Screening)					
		Unit = Cum					
		Taking output = 300 cum					
		Coarse graded granular sub-base material as per Tab. 400.2	le				
		53 mm to 9.5mm @ 50 percent	18	0.00	Cum	516.4	2 92955.60
		9.5 mm to 2.36 mm @ 20 percent	7	2.00	Cun	411.3	3 29615.76
		2.36 mm below @ 30 percent (coarse Sand Screening	g) 10	00.80	Cun	n 185.9	
		Cost for 300 cum = a					142652.88
		Rate psr Cum = (a)/300			Cur		475.51
			3	11.85	Cui	m 475.	51 148287.67
		GSB Gr-II					148287.67
-		000 01.11				TOT	
		Seigniorage Fees @10% of Basic Amount				Sa	sy 88250.43

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Executive Engines.
Rural Jorks Department
Work Division, Trivenigani