

# 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 AMBIKA MANDAL KE GHAR KE NIKAT TO DIPU PASWAN KE GHAR KAMAT KISUNGANJ SIMA

Actual Length of Road	=	2.630 Km
Flood affected Length of Road	=	0.890 Km
TOTAL COST OF PAVEMENT	Rs	2,953,034.55
TOTAL PROJECT COST	Rs	2,953,034.55

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

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

23	Supaul	Triveniganj	Ranipatti WN 6 To Sada fola	1.128	0.15	9,5	Chhatapur
24	Supaul	Triveniganj	Paswan Tola To pal tola	1	0.06	12	Chhatapur
26	- CONTRACTOR CONTRACTO	Triveniganj	Mohamadganj ward no 02 sima se bechan sah shambhu paswan tola to hote hue beriya sima tak	ah shanibhu 1.865 0.06 22		22	Chhatapur
27		Triveniganj	Jadiya Balua Path SHW se purab swasthya up kendra P.o. se Purab to Madhopur panchyat sima tak via	1,99	0.3	12.5	Chhatapur
28	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 kisungan) sima	2.63	0.45	53	Chnatapur
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	Chhatapui
32	Supaul	Triveniganj	Chhatapur laxmipur sima se to Khatbe tola Mahadalit tola khunti tak	3	0.05	45	Chhatapu
33	Supaul	Triveniganj	Bairia Pula à¤,े Md Ganj Sima H O Ravin Thakur	0.9	0.085	45	Chhatapu
34	Supaul	Triveniganj	Brahaman Tola PMGSY Udhampur Bhagwatipur to Ram Tola	1	0.3	28	Chhatapu
35	Supaul	Triveniganj	HO Prakas Singh to Sah Tola	1.2	0.3	18:5	Chhatapu
36	Supaul	Triveniganj	Gulab Chand Mukhia House to Mullah Tola	1.8	0.25	16.5	Chhatapu
37	Supaul	Triveniganj	N H 57 Yadav Tola to Paswan Tola-2722	1	0.15	9.75	Chhatapu
38	Supaul	Triveniganj	Koriyapatti to Rajeshwari path	3	0.38	22	Chhatapi
39	Supaul	Trivenigani	Karwana Bechan Sah Ke Ghar To Dahariya Sima Tak	2.27	0.25	18	Chhatapi
40	Supaul	Triveniganj	Madhopur Ansari Tola Se Dakshin to SHW Amar Chowk via Mahadalit Tola Yadav Tola	1.05	0.3	58	Chhatap
41	Supaul	Trivenigani	Rani Patti 49 RD to Digambar Jha Ke Ghar tak	2	0.215	18.5	Chhatap
19	Supaul	Trivenigan	World Bank Road Barma Colony Hote Huye to Kishan Yadav Ke Ghar tak	1.53	0.2	22.5	Chhatap
42	Supaul	Trivenigan	Yojna Sankhaya 1 Ram Chandra Ghar Se Purab Mahadalit Tola to Sahata Panchayat Sima Upendra Singh ke Ghar tak	2.2	0.2	29	Chhatar
43	Supaul	Trivenigan	31 Nosadak Laxman Mehta Ke Ghar Hote Huye to Md. Gani Hote Sima Sadak Tak	1.6	0.3	20	Chhata
44	Supaul	Trivenigan	Main Canal East to Paswan Tola	2.37	0.3	25	Chhata
45	Supaul	Trivenigan	NH 57 to Nuniya Tola	5.1	0.35	18.5	Chhata
46	Supaul	Trivenigan	House of Manilal Paswan Tola to Adibasi Tola	2.7	0.54	17.5	Chhata
47	Supaul	Trivenigan		5.1	0.06	42.5	Chhata
48	Supaul	Trivenigan	Construction of Road from Koriyapatti, Rajeshwari Pakk i sadak to the west of Gangapur Minar Canel 8.5 rd to 0 rd	2.75	0.2	48.86	Chhata

#### जाँच प्रतिवेदन

अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना के पत्रांक-1890 दिनांक-22.04.2022 द्वारा अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंवल, मधेपुरा की अध्यक्षता में गठित चार अभियंता प्रमुख, ग्रामीण कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष 2021-22 में बाद/अतिवृष्टि से क्षतिग्रस्त एथों के मोटरेबुल कार्य के कृत कार्य मदों की मात्रा का स्थलीय जाँच संबंधित सहायक किन्न अभियंता के साथ मापी लिया गया जो निम्न हैं:-सदस्याय कांमटा द्वारा प्रतिवंता एवं कनीय अभियंता के साथ मापी लिया गया जो निम्न हैं :-

Name of Road :- AMBIKA MANDAL KE GHAR KE NIKAT DIPU PASWAN KE GHAR KAMAT KISUNG/

Division Name: - Rural Works Department, Works Division, Triveniganj 3lock :- Chhatapur

SI No.	ems of Wor	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)
1		2		-		
QA.	1 [	6	30.0	3.0	0.3	162
100		6	30.0	3.0	0.3	162
38	brick bats	4	30.0	3.2	0.3	115.2
翻	Direct bats	1	20.00	9.00+8.50)/	(1.2+1.5)/2	236.25
趣	2	4	25.00	3.75	(0.3+0.45)/2	140.63
314	r	2	25.00	3.75	0.60	112.50
45		8	30.00	3.75	0.30	270.00
186			Tot	al Qty. =		1198.58
197	4.1					
2						
30.	hume pipe 1000 mm	2	3.00	2.50		15.00
19_	dia (HPC),	2	3.00	2.50		15.00
ž.,	1	2	3.00	2.50		15.00
_		100/07	Tot	al Qty. =		45.00

कार्य प्रमंडल, सुपौल।

ग्रामीण कार्य विभाग

कार्य प्रमंडल, बीरपुर।

ग्रामीण कार्य विमाग 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 सक्षर घेकार को अग्रतर कार्रवाई हेत् शीघ्र भेजें।

अधीक्षण अभियंता सह अध्यक्ष जाँच समिति

1/23/05/2

(23.52

ग्रामीण कार्य विभाग कार्य अंचल, मधेपुरा

### SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF

NAME OF ROAD:- ROAD FROM AMBIKA MANDAL KE GHAR KE NIKAT TO

DIPU PASWAN KE GHAR KAMAT KISUNGANJ SIMA

DIVISION: TRIVENIGANI

BLOCK :- CHHATAPUR

Actual Length of Road :- 2.630 Km

Flood Affected Length of Road :- 0.890 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	
2	BRICK BATS	2,304,713.52
3	EC BAG	_
4	GEO BAG	-
5	GRANULAR SUB BASE	-
6	HUME PIPE	199,128.15
	Total Cost =	2,503,841.67
	Add:-Labour Cess @1% amt. =	25,038.42
	Add:GST@12% on amt. =	300,461.00
	Add:S.F.@ 10% on Material =	123,693.46
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	2,953,035

AP 1576/22

Junior Engineer

Assistant Engineer

**Executive Engineer** 

RWD (W) Division, Triveniganj

RWD (W) Division, Triveniganj

RWD (W) Division, Triveniganj

Viole letter To othe 4 (To) falat (oni) 23-291/2019-4849

Technically functioned for suspess 29,53,035,00/( Hat is twenty mine lack fifty three thousand - and thirty file the suspess only)

Superintending Engineer
Rural Works Department
Works Circle Madher

NAME OF ROAD  :						Details o	of Mea	asuren	nent				
NAME OF ROAD   Sand filling in Foundation Trenches as per Drawing & Technical Specification   Sand filling in Foundation Trenches as per Drawing & Technical Specification   1								पेमाईस					
Sem No. 1   Sand filling in Foundation Trenches as per Drawing & Technical Specification											In m.	भाग	
CH -in   1   0   0.000   0.40   0.00	NAME OF ROAD:-  DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM AMBIKA MAN  KE GHAR KE NIKAT TO DIPU PASWAN KE GHAR KAMAT KISUNGANJ SIMA								NDAL				
Total (in cum)   1	Item No. 1	Sand filling	g in Four	ndation Tr	enches as p	er Drawing &	Technica	l Specificat	ion				
Total (In Cum)   Total (In Cum)   Total (In Cum)   Total (In Cum)	CH:-in .					T	<del></del>	T 0	T	0 000		0 40	
Stope and compacted at OMC to acheive required density with all complete as per the direction of control of the density of t					-	-		-					0.000
CH - In	Item No. 2	Providing slope and	and layin compact	ig of Brick ted at OM	bat obtained C to acheive	d from chimne required den	y with ma	achenical m	neans with all as per the d	spreading, irection of e	grading to rec engineer in cha	arge.	
CH - in	Clin							30	T	3.000			
CH-sin			-										115.200
CH-in										3 200			236 250
CH-in						+			(9 0+8 5)/2		(1.2+1.5)/2		140 62
CH -in						+		25			(0 3+0 43/12		112.50
Total (in Cum)    Total (in Cum)   Total (in Cum)   Total (in Cum)							2	25				0.300	
Total (in Cum)    CH -in							8	30		3.75			1198.57
tem No. 3 Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sutti and EC bag etc. all complete as per approved desing, specification and direction of E/I    O 20	CH:-In										otal (in Cum)		
CH -in						1					of suffi and EC	bag	
CH -in		1: 50		· samont l	age with loo	real sand, stite	hing the	bags and p	lacing includi	ng supply	01 5001 0110		
CH -in	tem No. 3	Labour fill	ing empty	/ cement t	oved desing.	specification	and direc	tion of E/I				-00	0.00
tem No. 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)  (0.076m3=1 no. of Geo Bags) Total (in nos.)  Total (in nos.)  Total (in nos.)  (0.076m3=1 no. of Geo Bags) Total (in nos.)  Total (in nos.)  Total (in nos.)  O.00  O.0		etc. all col	npiete as	per appro	yed desing.				T T			0.9	0.00
tem No 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 striching in four lines by approved rylon thread with striching 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)  (0.076m3=1 no. of Geo Bags)  Total (in nos.)  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 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, 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)  Total (in nos.)  Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).	CILLID						0	20	Total (ii	n cum)			0.00
tem No. 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 troiley within 150m lead all complete as per specifications and direction of E/I (including Carriage of Local sand lead 0.5 km)  (0.076m3=1 no. of Geo Bags)  Total (in nos.)  O.00  O.	JH:-III					-							0.00
Providing, laying and filling Geo bags of size 1m X 0.7 m(Type A 300 GSM normoven) weight of bags 420g volume of filled bag 0.07m3 weight of filled Geo bags 126 Kg with local sand including striching in four lines by approved nylon thread with striching 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)  2		(0.034m3	=1 no. of	EC Bags	]	-			Total (ii	n nos.)			
rivital within 150m lead all complete as per specifications and direction of the complete as per specifications and direction of the complete as per specification of the complete as per specification of the complete as per specification Clause 401 (Gr-II Material)  Total (in nos.)  Total (in nos.)  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, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, on the complete as per Technical Specification Clause 401 (Gr-II Material)  Total (Gr II Material)  Total (Cum)  Total (Cum)  D.00  Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).	tem No. 4	la idiaa	lována 800	d filling Ge	eo bags of si	ze 1m X 0.7 n gs 126 Kg with	n(Type A	300 GSM r	nonwoven) w g stitching in ing unloading	eight of bar four lines to and carrie	gs 420g volun by approved n age with help	ne of ylon of trolley 5 km)	
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(0.076m3=1 no. of Geo Bags)  Total (in nos )  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 trotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, on the support of the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, on the support of the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, on the support of the desired density, on the desired density, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, on the support of the desired density, on the	2U in												0.00
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Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).  Construction of granular sub-base by providing well graded material, spreading in uniform layers with reactor 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, with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, on the complete as per Technical Specification Clause 401 (Gr-II Material)  1 0 3.75 0.150 0.000  2 0 Total (Cum) 0.000  2 3 2 5 15.000  1 0.000mm No 6 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).		/0.076m3=	1 no. of (	Geo Bags	)	<del> </del>			Total (i	n nos.)			
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with rotavator at owner, complete as per Technical Specification Clause 401 (Graff Matcher) 3.75 0.150 0.0000 0.00	em No. 5								re the desire	o density,			0.000
Complete as per Technology   1		with rotava	tor at ON	AC, and or	ompacting w	lause 401 (G	r-II Mater	ial)		3.75			0.000
1   0   3.75   Total (Cum)   0.00		complete a	s per Tec	chnical Sp	ecincation C		1			3.75			
2   0     Total (stim)   15.0   16.0   17.							1		-	3.75			
2 3 25 15.0 1.0.00km 2 3 25 Total (in m) 45.0					+		2				10	tal (Cult	1
2 3 25 15.0 1.0.00km 2 3 25 Total (in m) 45.0			- 1		-		1100 ==	per design	in Single Ro	w(1000mi	n Dia).		
2 3 25 15.0 1.0.00km 2 3 25 Total (in m) 45.0					8	Canarata Pine	e NP3 as	hei acoid.	•				1
2 3 25 15.0 1.0.00km 2 3 25 Total (in m) 45.0				Reinford	ed Cement	Concrete					1	1	15.0
0.00km 2 3 25 Total (in m) 45.0		Providing a	nd Laying	Reinforc	ed Cement	Concrete in pr		3		2.5		-	15.0
		Providing a	nd Laying	Reinforc	ed Cement	Concrete Tips				2.5			15.0 15.0
	em No 6	Providing a	nd Laying	Reinforc	ed Cement	Concrete Fig.	2	3		2.5	-	otal (in m	15.0 15.0

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Rural Jorks Department Work Division, Trivenigani

## **Estimate of Flood affected Road**

NAME OF ROAD :- AMBIKA MANDAL KE GHAR KE NIKAT TO DIPU PASWAN KE GHAR KAMAT KISUNGANJ SIMA

BLOCK :-

CHHATAPUR

.No	SOR NO	DESCRIPTION				
		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.	1198.58	Cum	1922 87	2304713.52
3	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	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.	0 000	Cum	3010.64	0.00
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	45.00	m	4425.07	199128.15
		Total	-		Rs.	2503841.67

Executive Engines Rural Torks Department Work Division, Trivenigan,

#### **Calculation of Seigniorage Fees**

## DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM AMBIKA MANDAL KE NAME OF ROAD :- GHAR KE NIKAT TO DIPU PASWAN KE GHAR KAMAT KISUNGANJ SIMA BLOCK :- CHHATAPUR

S.No	SOR NO	DESRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1/1	12.3	Sand filling in Foundation Trenches as per Drawing &				
		Technical Specification	0.00	Cum	116.85	0.00
20	A/R	Sand Providing & laying Brick Bat	0.00	Cuiii	110.00	
2/2	TVIX	Providing and laying of Brick bat obtained from chimney				
1		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.				1000004.50
		Brick Bats	1198.58	Cum	1032.00	1236934.56
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)				
	<del>                                     </del>	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
			0.00	Cum	475.51	0.00
		GSB Gr-II			,	0.00
					TOTAL	1236934.56
		Seigniorage Fees @10% of Basic Amount			Say	123693.46

1376122

Defortion

617.6.22

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Executive Engineer Rural Forks Department Work Division, Trivenigani