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	BIHAR
DICTRICT	SUPAUL
BLOCK	CHHATAPUR
DIVISION	TRIVENIGANJ

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM CHHATAPUR LAXMIPUR TO KUNTI ROAD WITH FIVE YEAR MAINTENANCE

Actual Length of Road	=	7.750 Km
Flood affected Length of Road	=	0.755 Km
TOTAL COST OF PAVEMENT	Rs	3,036,032.50
TOTAL PROJECT COST	Rs	3,036,032.50

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

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

SlNo	District	Division	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	Triveniganj	L053-T01 To Narahiya (VR8)	2.585	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	2.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	2.Construction of road from Raghunathpurto Faisya Kothi Road with five years maintenance.	9.375	2.12	64	Chhatapur
8	Supaul	Triveniganj	1.Construction of road from Chunni to Charney world Bank road with filve year maintenance	6.345	0.3	40	Chhatapur
9	Supaul	Triveniganj	2.Construction of road from Chhatapur Laxmipur to kunti road with five year maintenance	7.75	0.3	45	Chhatapur
10	Supaul	Triveniganj	3. 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
16	Supaul	Triveniganj	Jewacchpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	3.175	0.33	23	Chhatapur
17	Supaul	Triveniganj	L033-T01 To Lachmipur (VR9)	4.421	0.2	70	Chhatapur
18	Supaul	Triveniganj	31 No Road to Darhariya Sima PMGSY via Pariyadhar	3.54	0.15	40	Chhatapur
19	Supaul	Triveniganj	Madhopur Market to West North SHW Birpur Road via Uddhampur Sima	1.645	0.06	35	Chhatapur
20	Supaul	Triveniganj	SH Bus Stand Paschim Bakho Tola & Paswan Tola Hote Huye Genda Nadi Evam Mirchaiya Nadi Par Karte Huye Harripatti SH Tak	4.77	0.025	15	Chhatapur
21	Supaul	Triveniganj	East of SHW Kalam Dealer House to Anand Chowk	1.5	0.12	35	Chhatapur
22	Supaul	Triveniganj	Pradhanmantri Matiyari to Brahamotra Mushhari Tola	2.085	0.2	68	Chhatapur

जाँच प्रतिवेदन

अभियंता 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
अभियंता प्रमुख, ग्रामीण 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
स्थीय कमिटी द्वारा कार्य प्रमंडल, त्रिवेणीगंज के अंतर्गत वर्ष माणी लिया गया जो निम्न है :–
अभियंता एवं कनीय अभियंता के साथ मापी लिया गया जो निम्न है :–

me of Road :- CHHATAPUR LAXMIPUR TO KHNTI ROAD.

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

ck :- Chhatapur

No.	ems of Wor	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)
1	local sand					
	Part A	1	20.0	2.5	1.2	60
		1	25.0	1.5	0.9	33.75
		1	25.0	2.0	0.9	45
		1	25.0	1.5	0.6	22.5
					TOTAL=	161.25
2	brick bats					
	Part – B	2	300.0	1.5	0.6	540.00
		1	40.0	2.5	0.6	60.00
		5	25.0	3.8	0.45	210.94
			Total Qty. =			810.94
3	EC BAGS					
		2	30	1.5	0.45	40.50
		NO			40.5/.034=	1192.00
4	GSB GR-2					
		1	10.0	2.5	0.15	3.75
		10	25.0	1.0	0.15	37.50
		2	32.0	3.0	0.15	14.40
		8	21.0	3.8	0.15	94.50
		10	18.0	2.9	0.15	7.83
		10	25.0	2.5	0.15	93.75
		1	27.0	3.5	0.15	14.18
						265.91
5	hume pipe 1000 mm dia (HPC),					
		4	3	2.5		30.00
		3	2.5			15 M

45 M

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, सुपौल।

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, त्रिवेणीगंज

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

अधीक्षण अभियंता सह अध्यक्ष जाँच समिति
ग्रामीण कार्य विभाग

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM CHHATAPUR LAXMIPUR TO KUNTI ROAD WITH FIVE YEAR MAINTENANCE

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 7.750 Km

Flood Affected Length of Road :- 0.755 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	88,544.6970
2	BRICK BATS	1,559,332.20
3	EC BAG	42,996.58
4	GEO BAG	-
5	GRANULAR SUB BASE	800,544.23
6	HUME PIPE	108,000.00
	Total Cost =	2,599,417.70
	Add:-Labour Cess @1% amt. =	25,994.18
	Add:GST@12% on amt. =	311,930.12
	Add:S.F.@ 10% on Material =	98,690.49
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	3,036,032.50

Say ₹ 3036033=00

Junior Engineer
RWD (W) Division,Triveniganj

Assistant Engineer
RWD (W) Division,~~Triveniganj~~
Chhatapur

Executive Engineer
RWD (W) Division,Triveniganj

Vide Letter मु० सामि० ५ (मु०) विविध (कार्य) 23-291/2019-48 49 dt 07/12/2021
Technically Sanctined for rupers 30,36,033.00/-
(that is thirty Lakh thirty six thousand and thirty three rupees only).

Superintending Engineer
Rural Works Department
Works Circle Madhe

Details of Measurement

Deatail of Work / कार्य का ब्यौरा		No / संख्या	लम्बाई in m	चौड़ाई In m	In m	Quantity / मात्रा
NAME OF ROAD :-	**DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM CHHATAPUR LAXMIPUR TO KUNTI ROAD WITH FIVE YEAR MAINTENANCE**					
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification					
CH -in		1	20	2 500	1 20	60 000
CH -in		1	25	1 500	0 90	33 750
CH -in		1	25	2 000	0 90	45 000
CH -in		1	25	1 500	0 60	22 500
						161.250
Item No. 2	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					
CH -in		2	300	1 500	0 600	540 000
CH -in		1	40	2 500	0 600	60 000
CH -in		5	25	3 800	0 450	213 750
						813 750
				Total (In Cum)		810.940
Item No. 3	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					
CH -in		2	30	1 5	0.45	40 50
				Total (in cum)		40 50
	(0.034m3=1 no. of EC Bags)					1191 18
				Total (in nos)		1191 00
Item 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)					
CH -in		2	0	1 20	0 6	0 00
						0 00
	(0.076m3=1 no. of Geo Bags)					0 00
				Total (in nos)		0 00
Item No. 5	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 (Gr-II Material)					.
		1	10	2 50	0.150	3 750
		10	25	1 00	0.150	37 500
		2	32	1 50	0.150	14 400
		8	21	3 75	0.150	94 500
		1	18	2 90	0.150	7 830
		10	25	2 50	0.150	93 750
		1	27	3 50	0.150	14 175
				Total (Cum)		265.905
Item No. 6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia)					
Ch in		6	3	2 5		45 00
				Total (in m)		45.00

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Executive Engineer
Rural Jorks Department
Work Division Trivenigani

Estimate of Flood affected Road

S.No	SOR NO	DESRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	161.25	Cum	549.11	88544.70
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.	810.94	Cum	1922.87	1559332.20
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	1191.00	nos.	36.10	42996.58
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.	265.905	Cum	3010.64	800544.23
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(600mm Dia).	45.00	m	2400.00	108000.00
		Total			Rs.	2599417.70

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Executive Engineer
Rural Jorks Department
Nork Division Tavenigani
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Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM CHHATAPUR LAXMIPUR

NAME OF ROAD :- TO KUNTI ROAD WITH FIVE YEAR MAINTENANCE

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				
		Sand	161.25	Cum	116.85	18842.06
2/2	A/R	Providing & laying Brick Bat....				
		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	810.94	Cum	1032.00	836890.08
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	40.50	Cum	116.85	4732.43
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	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
			265.91	Cum	475.51	126440.38
		GSB Gr-II				126440.38
					TOTAL	986904.95
		Seigniorage Fees @10% of Basic Amount			Say	98690.49

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Executive Engineer
Rural Works Department
Work Division, Trivenigani