



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
DISTRICT
BLOCK
DIVISION

BIHAR
SUPAUL
CHHATAPUR
TRIVENIGANJ

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM
CHUNI WORLD BANK TO CHAUDHARY TOLA (SAHPUR), GIRDHARPATTI
HAT VIA MIRRAPATTI

Actual Length of Road	=	9.300 Km
Flood affected Length of Road	=	0.802 Km
TOTAL COST OF PAVEMENT	Rs	1,907,225
TOTAL PROJECT COST	Rs	1,907,225

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

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

S.No	District	Division	Road Name	Length(In Km.)	Length of Damage Part Due to Flood	Tentative Restoration Amount(In Lac)	Block
1	Supaul	Triveniganj	Charney world bank to choudhary tola(sahpur), gutharpathi hat via mirzapatti	9.3	0.3	60	Chhatapur
2	Supaul	Triveniganj	Mahdipur Bazar to Chhatapur (Boader)	1	0.25	18	Chhatapur
3	Supaul	Triveniganj	1053-101 To Narahiya (VRB)	2.565	0.35	19	Chhatapur
4	Supaul	Triveniganj	1. Construction of road from Lalji Chauk Barhar Path to Subta Kachhi 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 Chhatapur Anant Chowk to Bhatta Bari Road with five years maintenance	1.485	0.1	20	Chhatapur
7	Supaul	Triveniganj	2. Construction of road from Baghmati pur to Faisya Kothi Road with five years maintenance	9.175	2.12	64	Chhatapur
8	Supaul	Triveniganj	1. Construction of road from Charney to Charney world Bank road with five year maintenance	6.145	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 Lalit gram Railway Station to Mahadev Pathi with five year maintenance	2.055	0.4	34	Chhatapur
11	Supaul	Triveniganj	Near House of Bishwanath Bhakur TO Brahman Tola, Pratapganj Pariyahi Road Middle PMGSY[SC]hool Talganj	2	0.15	50	Chhatapur
12	Supaul	Triveniganj	State Highway Ke Ramjanki Chowk Middle School Chapin to Aarniya 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 Ke Paschim Ramipathi Nahar Ke Daya Bank to Udaishunganj SHW Nahar Pul Tak	5.035	0.15	75	Chhatapur
14	Supaul	Triveniganj	Bari Masjid Bhakhargadh 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	Jewachpur Naya Bazar to Madhubani Sima Tak via Sarswatipur.	3.175	0.33	23	Chhatapur
17	Supaul	Triveniganj	1033-101 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 Haripathi 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 Matiyani to Brahmatra Mushhari Tola	2.085	0.2	68	Chhatapur

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1. Name of Road :- CONSTRUCTION OF ROAD CHUNNI WORLD BANK ROAD TO CHOUDHARY TOLA GIRDHARPAT

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

Block :- Chhatapur

S. No.	Items of Work	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m ³)
1	Filling of local sand o					
		1	30.0	2.0	0.6	36
		1	10.0	2.0	0.6	12
		2	20.00	2.0	0.60	48.00
		1	20.00	2.0	0.30	12.00
		1	10.00	1.6	0.60	9.60
		0	90.00	(8.50+7.50)/2	0.90	0.60
					TOTAL=	117.60
2	brick bats					
		1	30.0	3.50	0.30	31.50
		4	30.0	3.00	0.45	162.00
		1	30.0	3.60	0.30	32.40
		2	30.0	3.80	0.30	68.40
		1	30.0	3.00	0.30	27.00
						321.30
3	GSB GR-2					
		2	15.0	3.0	0.15	13.5
		1	18.0	2.0	0.15	5.4
		2	30.0	3.0	0.1	18
		2	30.0	3.0	0.15	27
		4	8.0	2.5	0.1	8
		4	2.3	3.0	0.15	4.14
		5	15.0	3.0	0.15	33.75
		3	25.0	3.2	0.1	24
		2	25.0	3.2	0.15	24
		4	16.0	3.0	0.15	28.8
		6	12.0	2.5	0.1	18
		5	15.0	3.0	0.15	33.75
		2	30.0	3.0	0.15	27
		2	30.0	3.0	0.15	27
		2	30.0	3.0	0.15	27
	Total Qty. =					319.34

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमडल, सुपौल।

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बीरपुर।

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, त्रिवेणीगज

कार्यपालक अमियता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगंज समिति के जीव प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राककलन तैयार कराकर सक्षम प्राधिकार को अग्रतर कार्रवाई हेतु शीघ्र भेजे।

क्षेत्र अभियंता सह अध्यक्ष जॉन सॉ
ग्रामीण कार्य विभाग
कार्य अचल, मधेपुरा

SUMMARY OF COST ESTIMATE FOR THE PROJECT

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD
FROM CHUNI WORLD BANK TO CHAUDHARY TOLA (SAHPUR),
GIRDHARPATTI HAT VIA MIRRAPATTI

NAME OF ROAD :-

DIVISION :- TRIVENIGANJ

BLOCK :- CHHATAPUR

Actual Length of Road :- 9.300 Km

Flood Affected Length of Road :- 0.802 Km

Sr. No.	Description	Amount (In Rs.)
1	SAND BAG	64,575.8534
2	BRICK BATS	617,818.13
3	BAMBOO PILE	-
4	BAMBOO SUPPLY	-
5	EC BAG	-
6	GEO BAG	-
7	GRANULAR SUB BASE	961,417.78
8	HUME PIPE	-
	Total Cost =	1,643,811.76
	Add:-Labour Cess @1% amt. =	16,438.12
	Add:GST@12% on amt. =	197,257.41
	Add:S.F.@ 10% on Material =	49,717.24
	TOTAL RESTORATION COST OF THE PROJECT IN LACS	1,907,225

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15/6/22

Junior Engineer
RWD (W) Division, Triveniganj

Aditya
15/6/22

Assistant Engineer
RWD (W) Division, Triveniganj
Chhatapur

Chhatapur
15/6/22

Executive Engineer
RWD (W) Division, Triveniganj

Vide letter no 378-4 (Rd) Diler (Rd) 23-29/12019-4849
dt- 07/12/2021

Technically sanctioned for Rs-1907225-00/-
(that is nineteen lakh seven thousand two hundred
twenty five rupees only)

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29/06/22

Superintending Engineer
Rural Works Department
Works Circle Madhet

Details of Measurement

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			लम्बाई in m	चौड़ाई in m	ऊँचाई in m	
NAME OF ROAD :-		DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM CHUI WORLD BANK TO CHAUDHARY TOLA (SAHPUR), GIRDHARPATTI HAT VIA MIRRAPATTI				
Item No. 1	Sand filling in Foundation Trenches as per Drawing & Technical Specification					
CH-in		1	30	2.000	0.60	36.000
CH-in		1	10	2.000	0.60	12.000
CH-in		2	20	2.000	0.60	24.000
CH-in		1	20	2.000	0.30	12.000
CH-in		1	10	1.800	0.60	9.000
Item No 2	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading grading to required slope and compacted at OMC to achieve required density with all complete as per the direction of engineer in charge.					117.800
CH-in		1	30	3.500	0.300	31.500
CH-in		4	30	3.000	0.450	162.000
CH-in		1	30	3.800	0.300	32.400
CH-in		2	30	3.800	0.300	68.400
CH-in		1	30	3.000	0.300	27.000
Less For Pipe		0	22/7x(0.6)2x2.5 (-)			0.000
		Total (in Cum)				321.300
Item No. 3	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I					
CH-in		3	0		4.00	0.000
For Bamboo piling 1.25m		Total (in m)				0.000
Item No. 6	Supply of Bamboo at site.					
		Total (in m)				0.00
		Total (in nos.)				0.00
						0.00
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		1	0.00	2	1.50	0.00
CH-in		Total (in cum)				0.00
(0.034m3=1 no. of EC Bags)						0.00
		Total (in nos.)				0.00
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	2.00	0.45	0.00
						0.00
(0.076m3=1 no. of Geo Bags)						0.00
		Total (in nos.)				0.00
Item No. 5	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. (Gr-II Material)					
		2	15	3.00	0.150	13.5000
		1	18	2.00	0.150	5.4000
		2	30	3.00	0.100	18.0000
		2	30	3.00	0.150	27.0000
		4	8	2.50	0.100	8.0000
		4	2.3	3.00	0.150	4.1400
		5	15	3.00	0.150	33.7500
		3	25	3.20	0.100	24.0000
		2	25	3.20	0.150	24.0000

Calculation of Seigniorage Fees

DETAILED ESTIMAE FOR TEMPORARY RESTORATION OF ROAD FROM CHUI WORLD BANK TO
NAME OF ROAD :- CHAUDHARY TOLA (SAHPUR), GIRDHARPATTI HAT VIA MIRRAPATTI
BLOCK :- CHHATAPUR

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1.1	12.3	Sand filling in Foundation Trenches as per Drawing & Technical Specification				
		Sand	117.60	Cum	116.85	13741.56
2.2	A/R	Providing & laying Brick Bat				
		Providing and laying of Brick bat obtained from chimney with machanical 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	321.30	Cum	1032.00	331581.60
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 0.07m ³ 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
						142652.88
		Cost for 300 cum = a				
		Rate psr Cum = (a)/300		Cum		475.51
			319.34	Cum	475.51	151849.24
						151849.24
		GSB Gr-II			TOTAL	497172.40
					Say	49717.24
		Seigniorage Fees @10% of Basic Amount				

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Executive Engineer
Rural Development Department
Work Division Irviniganj

Estimate of Flood affected Road

NAME OF ROAD :- CHUI WORLD BANK TO CHAUDHARY TOLA (SAHPUR), GIRDHARPATTI BLOCK :- CHHATAPUR
HAT VIA MIRRAPATTI

S.No	SOR NO	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	301.5	Sand filling in Foundation Trenches as per Drawing & Technical Specification	117.60	Cum	549.11	64575.85
2	A/R	Providing and laying of Brick bat obtained from chimney with machanical 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.	321.30	Cum	1922.87	617818.13
3	5.7.7	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I	0.00	m	45.86	0.00
4	5.7.8	Labour for fitting and fixing Split bamboo woven chachari in position with 20 swg G.I wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I	0.00	sqm	78.20	0.00
5	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every vertical pole with 150 mm long nails or 38 swg G.I. wire including cost of G.I wire or nails complete job as per specification and direction of E/I	0.00	m	5.31	0.00
6		Supply of Bamboo at site.	0.00	nos.	188.39	0.00
3	5.7.40.1	Labour filling empty cement bags with loocal sand, stitching the bags and placing including supply of sulli 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 0.07m ³ . 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.	319.340	Cum	3010.64	961417.78
6	9.3	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Roww(1000mm Dia).	0.00	m	4041.99	0.00
		Total			Rs.	1643811.76

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Executive Engineer
Rural Works Department
Work Division, Trivenigari