E/1

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 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

SINo	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(satpur), girdharpatti hat via mirrapatti	9.1	0.3	50	Chhatapur
2	Supaul	Triveniganj	Mahdipur Bazar to Chatapur (Boader)	1	0.25	18	Chhatapur
3	Supaul	Triveniganj	L053-101 To Narahiya (VR8)	2.585	0.35	19	Chhatapur
4	Supaul	Triveniganj	1.Construction of road from Lalji Chauk Harihar Path to Subta 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 withfive 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 fifve 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 Lalit 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 Aariya 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	L033-101 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 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

[illegible] 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 [illegible] कमिटी द्वारा 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 [illegible] के अभियंता एवं कनीय अभियंता के साथ मापी लिया गया जो निम्न है :-

me of Road :- CONSTRUCTION OF ROAD CHUNNI WORLD BANK ROAD TO CHOUDHARY TOLA GIRDHARPAT

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

ock :- Chhatapur

Sl No.	Items of Work	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)
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	0.00
					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

23/5/22

23/05/22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, सुपौल।

23/5/22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बीरपुर।

23.5.22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, त्रिवेणीगज

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, त्रिवेणीगज समिति के जाँच प्रतिवेदन के अनुसार POST FACTO M.B. एवं POST FACTO प्राक्कलन तैयार कराकर सक्षम प्राधिकार को अग्रतर कार्रवाई हेतु शीघ्र भेजें।

23/05/22

[illegible]क्षण अभियंता सह अध्यक्ष जाँच सं
ग्रामीण कार्य विभाग
कार्य अंचल, मधेपुरा

SUMMARY OF COST ESTIMATE FOR THE PROJECT

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

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

15/6/22
Junior Engineer
RWD (W) Division,Triveniganj

15/6/22
Assistant Engineer
RWD (W) Division,~~Triveniganj~~ Chhatapur

17.6.22
Executive Engineer
RWD (W) Division,Triveniganj

Vide letter मु० अभि-4 (मु०) विविध (कार्य) 23-291/2019-4849 dt- 07/12/2021

Technically Sanctioned for Rs-1907225-00/-

(that is ninetyen lakh seven thousand two hundred twenty five rupees only)

29/06/22
Superintending Engineer
Rural Works Department
Works Circle Madhe

Details of Measurement

कार्य का ब्यौरा Deatail of Work		संख्या No	Measurement लम्बाई in m.	चौड़ाई in m.	ऊंचाई in m.	मात्रा Quantity
NAME OF ROAD :-	DETAILED ESTIMAE FOR TEMPRORY 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	48.000
CH:-in			1	20	2.000	0.30	12.000
CH:-in			1	10	1.800	0.60	9.800
							117.800
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			1	30	3.500	0.300	31.500
CH:-in			4	30	3.000	0.450	162.000
CH:-in			1	30	3.600	0.300	32.400
CH:-in			2	30	3.800	0.300	68.400
CH:-in			1	30	3.000	0.300	27.000
							321.300
	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 pilling 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

						4	16	3.00	0.150	28.8000
						6	12	2.50	0.100	18.0000
						5	15	3.00	0.150	33.7500
						2	30	3.00	0.150	27.0000
						2	30	3.00	0.150	27.0000
						2	30	3.00	0.150	27.0000
									Total (Cum)	319.340
6	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row(1000mm Dia).									
				Ch.0.00km		2	0	2.5		
										0.00
									Total (in m)	0.00

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15/06/2022
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17.6.22

Executive Engineer
Rural Works Department
Work Division, Triveniganj

Calculation of Seigniorage Fees

NAME OF ROAD :- DETAILED ESTIMAE FOR TEMPRORY RESTORATION OF ROAD FROM CHUI WORLD BANK TO CHAUDHARY TOLA (SAHPUR), GIRDHARPATTI HAT VIA MIRRAPATTI
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	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 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	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 0.07m3 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
			319.34	Cum	475.51	151849.24
		GSB Gr-II				151849.24
					TOTAL	**497172.40**
		Seigniorage Fees @10% of Basic Amount			Say	**49717.24**

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Executive Engineer
Rural ... Department
Work Division Irrivenigen

Estimate of Flood affected Road

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

.No	SOR NO	DESRIPTION 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 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.	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 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 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**

15/6/22
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15/06/2022
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17.6.22
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Executive Engineer
Rural Works Department
Work Division, Triveniganj