



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR YEAR 2021-22

DISTRICT :- EAST CHAMPARAN
BLOCK :- TETARIA

Estimate for Repair of Road breaches
(Damaged by Flood) for Motorability in
NAKARDEVA To KADMA

LENGTH OF ROAD (in Km)- 4.3 KM

ESTIMATED COST - ~~20.278~~ Lacs
18.998

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

तकनीकी प्रतिवेदन

पथ का नाम:- गकरदेवा से कलसा
प्रखंड का नाम :- तेतरीया
पथ की लम्बाई :- 4.30 K.M
शीर्ष:- F.D.R
प्राक्कलित राशि:- 20.278 लाख
योजना शीर्ष :- P.M.G.S.Y

उपरोक्त योजना का प्राक्कलन सचिव, ग्रामीण कार्य विभाग, बिहार पटना के पत्रांक 1937 दिनांक 07.07.2021 के द्वारा दिए गए निदेश के आलोक में एवं कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पकड़ीदयाल के निदेशानुसार स्थल जॉचोपरान्त तैयार किया गया है। माह मई 2021 से अक्टुबर 2021 के बीच प्रलयकारी बाढ़ एवं अतिवृष्टि के कारण उक्त पथ में अनेक स्थानों पर कटाव हो गया था जिस कारण पथ से होकर आवागमन बाधित हो गया था। पथ से होकर तत्काल आवागमन चालू करने हेतु क्षतिग्रस्त भाग में तत्काल उपलब्ध हो सकें सामग्री यथा-ईट टूकडा/स्थानीय बालू/ बॉस-बल्ला/ खाली सिमेंट बैग/ हयूम पाईप आदि आवश्यकतानुसार उपयोग करने का प्रावधान किया गया है। यह कार्य निदेशानुसार विभागीय रूप से करा दिया गया है।

यह प्राक्कलन अद्यतन अनुसूचित दर पर संवेदक लाभ रहित तैयार किया गया है। जनहित में इसकी स्वीकृति अपेक्षित है।


26/10/21

कनीय अभियंता
ग्रामीण कार्य विभाग,
प्रशाखा, तेतरीया


26/10/21

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल,.....


23/11/21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, पकड़ीदयाल।

GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR MOTORIBILITY IN NAKARDEVA TO KADMA

DISTRICT - EAST CHAMPARAN

DIVISION - PAKRIDAYAL

BLOCK - TETARIA

LENGTH OF ROAD (in Km)- 4.3 KM

SL. No.	Item of Work	Amount
1	EARTH WORK :	-0.013 Lacs
2	BRICK BATS :	16.855 Lacs
3	SAND BAGS :	0.000 Lacs
4	HUME PIPE :	0.255 Lacs
	COST OF RESTORATION :	17.097 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST :	0.958 Lacs
	ADD LABOUR CESS @ 1% :	0.171 Lacs
	ADD GST @ 12% :	2.052 Lacs
	TOTAL COST OF RESTORATION OF ROAD :	20.278 Lacs


26/10/24
Junior Engineer


26/10/24
Asstt. Engineer


23/11/24
Executive Engineer

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motorability in NAKARDEVA To KADMA

Head - FDR

SI No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		EARTH WORK - Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m. transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	cum					-6.91	183.70	-1269.367
2		Providing and Labour for laying dry graded Brick Bats including light ramming etc. all complete as per approved design, specification and direction of E/I.	cum					970.910	1736.81	1685509.47
3		Providing, Filling Sand Bag, Stitching and Placing etc. all complete as per specification and direction of E/I.	Nos.					0.000	24.45	0.00
4		Providing and laying 1000 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonry.	RM	0 Nos	2.5m			0.000	6086.50	0.00
5		Providing and laying 600 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonry.	RM	4 Nos	2.5m			10.000	2545.18	25451.80
TOTAL (In Re.)										1709651.90

Junior Engineer,
Rural Works Department,
Works Section, TETARIA

Assistant Engineer,
Rural Works Department,
Works Sub Division, TETARIA

Executive Engineer,
Rural Works Department,
Works Division, PAKRIDAYAL

Post facto T.A./TS is accorded for Rs. 18,99,800.00

(Eighteen lacs ninety nine thousand Eight hundred) only.

Post facto T.A./TS is accorded for Rs. 18,99,800.00

(Eighteen lacs ninety nine thousand Eight hundred) only.

S.E. (R.W.D.)
works Circle
Motihari

S.E. (R.W.D.)
works Circle
Motihari

SEIGNIORAGE FEE CALCULATION SHEET

Item description	unit	Quantity of Consuming Item	Materials Required/ Unit	Unit	Quantity/ Unit	Total Quantity Required	Rate	Amount	Seigniorage Fee (RS)	Final Amount (RS)
Earth Work	Cum	-6.91	Earth	Cum	1.0	-6.91	34.82	-240.61	-24.06	-24.06
Brick bats	Cum	970.91	Brick bats	Cum	1.0	970.91	987.00	958288.17	95828.82	95828.82
Sand Bags	per bag	0.00	sand	Cum	0.034	0.00	141.85	0.00	0.00	0.00
1000 MM Dia	RM	0.00	Sand at site	Cum	0.04	0.00	175.80	0.00	0.00	0.00
600 MM Dia	RM	10.00	Sand at site	Cum	0.0032	0.03	175.80	5.63	0.56	0.56
Total Amount of seigniorage fee in construction (Rs)										95805.32

S. A. L.
26/10/21
J.E

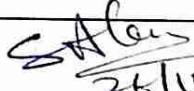
Amul
26/10/21
A2

23/11/2021
CSE

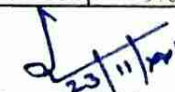
Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for
Motorability in NAKARDEVA To KADMA

Appendix - II					
Measurement for surfacing the Breach with Brick Bats					
Sl. No.	Chainage	Length (M)	Av. Width (M)	Thickness (M)	Quantity (cum)
1	0.200	73.000	3.500	1.10+0.600/2	217.175
2	0.450 To 0.600	65.000	4.500	1.50+1.00/2	365.625
3		22.000	3.000	1.200	79.200
4	0.700 To 0.800	40.000	3.900	1.90+1.50/2	265.200
5		7.500	4.500	1.500	50.625
		Total			977.83
	Deduction for 0Nos old 1000 mm HP at 0 m (3.142*0.36*0)				0.00
	Deduction for 4Nos old 600 mm HP at 10 m (3.142*0.22*10)				-6.91
	Net Quantity of Brick Bats				970.91


26/10/21
Junior Engineer


26/10/21
Asistant Engineer


23/11/21
Executive Engineer

BRICK BATS PITCHING MANUAL MEANS

6.6.1 WRD Bihar	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulder Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I.				
	Unit :- Per Cum				
	Taking Output = 2.832 Cum				
	Unskilled Mazdoor	Nos.	3	304.00	912.00
	Rate for 2.832 Cum				912.00
	Rate per Cum (Rs.) -				322.03
1.4 RCD	Cost of Haulage Excluding Loading and Unloading				
	Haulage of materials by Tractor excluding cost of loading, unloading and stacking.				
	Unit = t.km				
	Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km				
	(i) Surfaced Road				
	Speed with load : 15 km / hour.				
	Speed while Returning empty :25 km / hour.				
	a) Machinery.				
	Tractor 3.6 tonne capacity				
	Time taken for onward haulage with load	hour	0.667	612.00	408.20
	Time taken for empty return trip.	hour	0.400	612.00	244.80
	cost for 36 t km = a+b+c				653.00
	Rate per t.km = (a+b+c)/36				18.14
	Say Rs. -				18.14
	(ii) Unsurfaced Graveled Road				
	Speed with load: 12 km / hour				
	Speed for empty return trip :20 km / hour				
	a) Machinery				
	Tractor 3.6 tonnes capacity				
	Time taken for onward haulage with load	hour	0.833	612.00	509.80
	Time taken for empty return trip hour 0.5	hour	0.500	612.00	306.00
	Cost for 36 t .km = a+b+c 840.34				815.80
	Rate per t.Km = (a+b+c)/36				22.66
	Say Rs. -				22.66

1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Brick Bats/Jhama Metal/Sand /Kanker/Moorum			
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excluding for haulage and return trip			
	Unit = cum			
	Taking output = 2.25 cum			
	Time required for			
	i) Positioning of Tractor at loading point	1 Min		
	ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour	5 Min		
	iii) Maneuvering, reversing, dumping and turning for return	0 Min		
	iv) Waiting time, unforeseen contingencies etc	0 Min		
	Total	6 Min		
	a) Labour			
	Mate	day	0.03	321.00
	Mazdoor for loading and unloading	day	0.72	304.00
	b) Machinery			
	Tractor 3.60 tonnes capacity	hour	0.1	612.00
	Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1594.00
	Cost for 2.25 cum = a+b+c+d			422.01
	Rate per cum = (a+b+c+d)/ 2.25			187.56
Note:-	Unloading will be done manually.			
1.	Suplying for Brick Bats			
A.	Basic Rate of Brick Bats	Per Cum	987.00	987.00
	Total -			987.00
	Surface Lead	KM	7	
	Unsurface Lead	KM	1	
	Factor (3.6/2.25)	Cum	1.60	
B.	Carriage			
	(1.6 x 7 x 18.14) + (1.6 x 1 x 22.66) + 187.56			426.98
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1			322.03
	Total (A+B+C) -			1736.01
	Total Cost per Cum		Rs.-	1736.01

Chapter 9

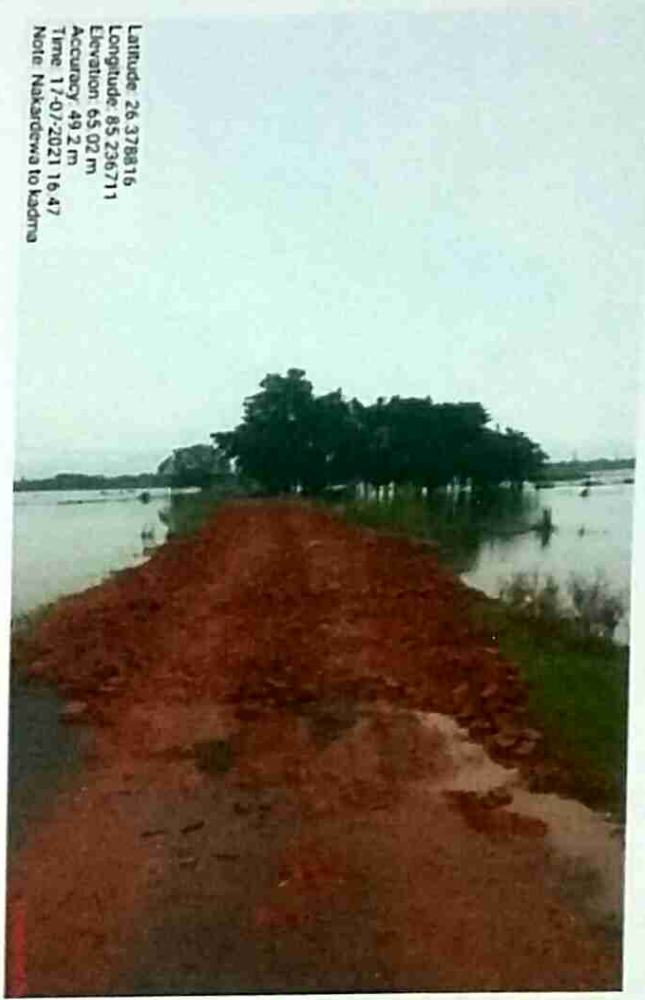
PIPE CULVERTS

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
9.3	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row				
		Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry				
		Unit = m				
		Taking output = 7.5 m				
		(3 pipes of 2.5 m length each)				
		(B) 1000 mm dia				
		a) Labour				
		Mate	day	0.09	321.00	28.89
		Mason (1st Class)	day	0.25	408.00	102.00
		Mazdoor (Unskilled)	day	2.00	304.00	608.00
		b) Material				
		Sand at site	cum	0.04	175.80	7.03
		Cement at site	t	0.03	5,325.60	159.77
		RCC pipe NP3 concrete pipe including collar at site	m	7.50	5,565.00	41,737.50
		Cost for 7.5 m = a+b+c+d				42,643.19
		Rate per m = (a+b+c+d)/7.5				5,685.76
		Carriage of Hume Pipe				
			M	1.00	400.74	400.74
		Rate per m = (with carriage)				6,086.50
		(C) 600 mm dia				
		a) Labour				
		Mate	day	0.05	321.00	16.05
		Mason (1st Class)	day	0.15	408.00	61.20
		Mazdoor (Unskilled)	day	1.20	304.00	364.80
		b) Material				
		Sand at site	cum	0.024	175.80	4.22
		Cement at site	t	0.018	5,325.60	95.86
		RCC pipe NP3 concrete pipe including collar at site	m	7.50	2,310.00	17,325.00
		Cost for 7.5 m = a+b+c				17,867.13
		Rate per m = (a+b+c)/7.5				2,382.28
		Carriage of Hume Pipe				
			M	1.00	162.90	162.90
		Rate per m = (with carriage)				2,545.18


 26/10/04
 I.E


 26/10/04


 25/11/04
 C.R.



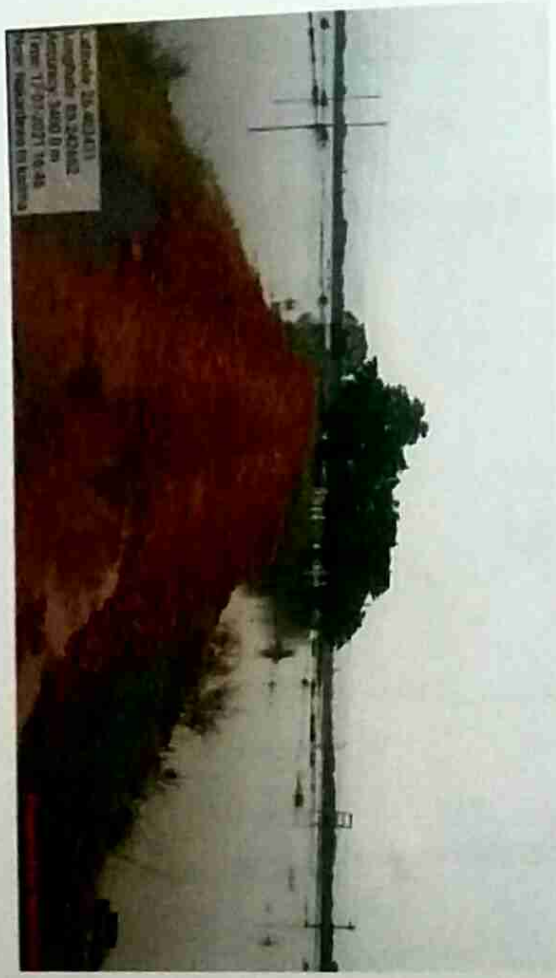
Latitude: 26.378816
 Longitude: 85.236711
 Elevation: 65.02 m
 Accuracy: 49.2 m
 Time: 17-07-2021 16:47
 Note: Nakardewa to Kadma



Latitude: 26.378816
 Longitude: 85.236711
 Elevation: 65.02 m
 Accuracy: 49.2 m
 Time: 17-07-2021 16:48
 Note: Nakardewa to Kadma



Latitude: 26.378816
 Longitude: 85.236711
 Elevation: 65.02 m
 Accuracy: 49.2 m
 Time: 17-07-2021 16:48
 Note: Nakardewa to Kadma



Latitude: 26.378816
 Longitude: 85.236711
 Elevation: 65.02 m
 Accuracy: 49.2 m
 Time: 17-07-2021 16:48
 Note: Nakardewa to Kadma

26/10/21
 E.D.
 22

26/10/21
 42

26/10/21
 42

Inspection Report For Flood Damage Work

Date :-

1. Name of PIUs- Executive Engineer, RWD. (W.D), Pakridayal.
2. Name of Block – Tetaria
3. Name of Road – NAKARDEVA TO KADMA.

(A) For Road

1. Damage Location/Chainage :- 0.200, 0.450 To 0.600 & 0.700 To 0.800
2. Damage Length :- 207.500 Meter.
3. Cause of Damage :- Due To Flood 2021/ Heavy Rain.
4. Nature of Damage :- Ditches/Breaches
5. Details of Restoration Work :-
 - (i) Material being used in restoration works :- Bricks Bat/Jhamma Metal/ Rabis/Hume Pipe
 - (ii) Equipment/Tools being used in restoration Works :- J.C.B./Tractor/Trolley/Others
 - (iii) Procedure Taken up in restoration works :- Emergent Repair.
 - (iv) Restored Length :- 207.500 Meter.

Work found satisfactory


27/11/21
A2


27-11-21
Signature of Inspecting officer
(Executive Engineer)
R.W.D. (W.D) Dhaka.

अधीक्षण अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, मोतिहारी

कार्यालय आदेश

कार्यालय आदेश संख्या—

दिनांक 04/10/2021

विभागीय निर्देशानुसार वर्ष 2021 के बाढ़ एवं अतिवृष्टि से ग्रामीण कार्य विभाग के पथों एवं पुलों में हुई क्षति के कारण आवागमन को सूचारु करने हेतु युद्ध स्तर पर कार्य प्रमंडलों को कार्य कराने का निर्देश प्राप्त है। इस सम्बन्ध में सचिव, ग्रामीण कार्य विभाग, बिहार पटना के निर्देश के आलोक में इन सभी कार्यों की भौतिक सत्यापन हेतु इस कार्य अंचल में पदस्थापित कार्यपालक अभियंताओं के बीच प्रमंडलवार जाँच कार्य हेतु निम्नवत कार्य क्षेत्र आवंटित किया जाता है।

क्रमांक	वर्तमान पदस्थापन कार्य प्रमंडल का नाम	जाँच हेतु आवंटित कार्य प्रमंडल का नाम
1	कार्यपालक अभियंता, मोतिहारी	कार्य प्रमंडल ढाका
2	कार्यपालक अभियंता, रक्सौल	कार्य प्रमंडल चकिया
3	कार्यपालक अभियंता, अरेराज	कार्य प्रमंडल मोतिहारी
4	कार्यपालक अभियंता, चकिया	कार्य प्रमंडल अरेराज
5	कार्यपालक अभियंता, ढाका	कार्य प्रमंडल पकड़ीदयाल
6	कार्यपालक अभियंता, पकड़ीदयाल	कार्य प्रमंडल रक्सौल

EO

अधीक्षण अभियंता
ग्रामीण कार्य विभाग,
कार्य अंचल, मोतिहारी

ज्ञापांक— 844

दिनांक 04/10/2021

प्रतिलिपि— कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल मोतिहारी/रक्सौल/अरेराज/चकिया/ढाका/पकड़ीदयाल को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

अधीक्षण अभियंता
ग्रामीण कार्य विभाग,
कार्य अंचल, मोतिहारी

4/10/21

अधीक्षण अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, मोतिहारी

पत्रांक 256 अनु मोतिहारी, दिनांक 30/03/2022

प्रेषक:-

अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल मोतिहारी

सेवा में,

मुख्य अभियंता-4
ग्रामीण कार्य विभाग
बिहार पटना ।

विषय :-

कार्य प्रमंडल पकड़ीदयाल के अधीन वर्ष 2021 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों/पुलियों के कार्योंत्तर तकनीकी अनुमोदनोपरान्त प्रशासनिक स्वीकृति के सम्बन्ध में।

प्रसंग :-

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल पकड़ीदयाल के पत्रांक-238 अनु0 दिनांक-21.02.2022

उपर्युक्त विषयक प्रासांगिक पत्र द्वारा प्राप्त कार्य प्रमंडल पकड़ीदयाल के अधीन वर्ष 2021 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त निम्नलिखित पथों का प्राक्कलन कार्योंत्तर तकनीकी अनुमोदनोपरान्त प्रशासनिक स्वीकृति किया जाता है।

पथ का नाम	लम्बाई (कि०मी०में)	राशि (लाख में)
Markatiya to Chainpur	2.400	0.640
Bhandar Bhakurahiya to Gayatri Mandir	0.682	1.258
Sambhunath Jha House		
Gamharia to Khutauna	4.072	10.744
Chainpur to Pardesia	0.837	3.295
Bokane Kalan to Amabria	3.500	14.909
Gamharia Main Road Bridge of Betauna Panchayat to Khutauna Brahma Asthan via Gamharia Math	1.000	6.226
Jihuli to Gonhai Road	6.200	9.836
Jihuli to Jihuli Ghat via Jamuniya	3.600	18.218
Patahi yadu REO Road to Kalupakar via Belahi Ram	2.450	9.902
H.L. Bridge on Place of Old Culvert in patani Jhanda Chowk to Sugapipar Road	0.453 (M)	16.346
H.L. RCC Bridge over Russi Nala in Magni Chowk Padumker to Alisherpur	0.036 (m)	7.167
Kalupakar to Belahi Kushwaha tola	1.129	0.954
NHPC Noonfarwa to Virta Tola	1.104	6.709
Rangpur Pakki Road to Jardaha	1.192	2.016
Patahi Sugapipar to gonahi Purvi tola	2.163	13.667
Padumker Rambabu Singh House to Narayanpur	1.217	9.071
Champapur Jai Mangal Ray House to Mirzapur Siwan	1.700	4.463

18	Mahmada Pathkhauliya to Mahmadi	1.750	2.492
19	Shikargang Patahi Pitch Road at dumari Siwan via Mahamada	3.200	2.418
20	Champapur to Mahmadi	3.900	5.429
21	Khutauna Avadesh Singh House to Braham sthan	1.400	3.188
22	Gamharai to Gonahi	1.800	4.373
23	Kodariya Pitch Road to Betauna Parti tola	2.500	21.191
24	Patahi Yadu Kodariya to Sugapipar	8.100	2.439
25	Parsauni to Manoratha Paswan tola	2.312	2.313
26	Bakhri Brahm Sthan to Narkatiya Mahua Path	1.500	2.953
27	Mathia Champapur to Kalyanpur	2.247	2.079
28	Jihuli to Sikahi Tola	2.500	9.195
29	Mathia to Champapur	8.500	2.880
30	Gamharia Gonahi to Gujraul	1.865	2.019
31	Magni Chowk to Alisherpur via Padumker	3.400	1.546
32	Bakhari to Betauna	3.200	1.364
33	Jihuli to Jamuni tola	1.700	1.384
34	Gonahi Pitch Road Anusuchit jati tola to Sugapipar Bazar	1.800	8.982
35	Phenhara Bazar to Ratanwa Chowk	2.550	2.940
36	Deokuliya to Marpa kothi	2.543	3.214
37	Naurangiadih to Manjhauriya	1.120	6.188
38	Sabli to Narhari Bandh	1.000	2.045
39	Parsauni Loha Singh House to Agarwa Siwan	1.000	4.986
40	Harnathpur River to Harnathpur Bazar	1.500	8.935
41	Dyversion of RCC Bridge over Kachhua moti River at chhapra Ghat	0.6048	11.488
42	Sundarpatti to Korai	2.821	7.604
43	Mohar Tola to Siraha GP	1.500	7.818
44	Sundarpatti t MMGSY Road	0.640	0.487
45	Chorma Chowk Kothi Bazar to Patahi Road	9.900	4.172
46	Dhubauliya Yadav tola to L037 Wajitpur Dhubauliya	0.750	1.277
47	Punash to Kajari	11.200	15.161
48	Shobhita to Semraha	0.715	10.912
49	Chhatauni Math to Narha Dusad Toli	2.800	1.796
50	Hasanpur Harijan Basti to MMGSY Saghari Road	1.300	10.222
51	Bahuara Pokhar to Khairwa via Shobhhita	5.000	25.949
52	Tetaria to Delho	4.800	16.168
53	Panapur to Harizan tola Narha	0.560	2.048
54	T02 to Hanuman Nagar	1.640	4.257
55	Gosaipur Harizan tola to PWD Road	1.000	5.901
56	T02 Narayanpur Bazar to Ojhilpur	2.115	4.352
57	Meghua to Sariya (Part - II)	1.500	1.494
58	PWD Road Madhuban Tetaria ke Gheghwa to Baliram Bhagat % devi Sahni tala	4.046	1.084
59	Nakardeva to Kadma	4.300	18.998
60	MMGSY Road to Madhopur Hari	0.360	7.483

61	Mahadalit Basti Lahladpur to Ramashankar tola tetaria	3.000	12.873
62	T02 to Kothia	2.371	5.932
63	Tetaria to Maniyarpur	4.000	18.317
64	Tetaria Maniyarpur to Tatma tola	0.855	2.081
65	Dhubauliya Bishunpur to L037 Wajitpur Dhubauliya Road	1.700	4.373
66	Sonaul Sahu tola to MMGSY Road	0.900	5.099
67	Gheghawa Pathak tola to T03 Madhuban Tetaria PWD Road	1.250	5.141
68	Dhubauliya Malah Tola to PMGSY Dhubauliya Road	0.600	1.719
69	T02 to Semraha	3.305	4.991
70	Tataria Maniyarpur to Sursabad	2.127	12.272

अनु०- यथोक्त ।

विश्वासभाजन

अधीक्षण अभियंता

ग्रामीण कार्य विभाग,

कपूर अंचल, मोतिहारी
30/9/22