



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR YEAR 2020-21

DISTRICT :- EAST CHAMPARAN
BLOCK :- PHENHARA

Estimate for Repair of Road breaches
(Damaged by Flood) for Motorability in Bara
Parsauni To Godhia Tola

LENGTH OF ROAD (in Km)- 1.5 KM

ESTIMATED COST -	7.063	Lacs
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SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

तकनीकी प्रतिवेदन

पथ का नाम:- वाराणसी से जोड़ीया रोड

प्रखंड का नाम :- जेनहरा

पथ की लम्बाई :- 1.50 किलोमीटर

शीर्ष:- Foreign Road

प्राक्कलित राशि:- 4.92 7.063 लाख रु

योजना शीर्ष :- F.D.R

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 अक्टूबर 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 सके सामग्री यथा-ईट टूकड़ा/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।

5
07.11.2021

कनीय अभियंता
ग्रामीण कार्य विभाग,
प्रशाखा, जेनहरा

अभि
21/11/21

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

अभि
21/11/21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, पकड़ीदयाल।

GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR
MOTORIBILITY IN BARA PARSAUNI TO GODHIA TOLA

DISTRICT - EAST CHAMPARAN

DIVISION - PAKRIDAYAL

BLOCK - PHENHARA

LENGTH OF ROAD (in Km)- 1.5 KM

SL. No.	Item of Work	Amount
1	EARTH WORK :	0.000 Lacs
2	BRICK BATS :	6.924 Lacs
3	SAND BAGS :	0.000 Lacs
4	11/12 INCH PIPE :	0.139 Lacs
	COST OF RESTORATION :	7.063 Lacs
	TOTAL COST OF RESTORATION OF ROAD :	7.063 Lacs

W. Jeyarajan
07.11.2021
Junior Engineer

Ch. J. Jeyarajan
Asstt. Engineer

Mr. J. Jeyarajan
22/11/2021
Executive Engineer

ie of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motorability in Bara Parsauni
Godhia Tola

ad - FDR

Sl 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		As Per Appendix I			0	183.70	0
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		As Per Appendix II			357.110	1938.89	692397.01
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		2 Nos*2.5m			5.000	2781.35	13906.75
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		0 Nos*2.5m			0.000	2545 18	0 00
TOTAL (in Re.)										706303.76

W. J. J. J. J.
07.11.2021
Junior Engineer,
Rural Works Department,
Works Section, PHENHARA

Q. J. J. J. J.
Assistant Engineer,
Rural Works Department,
Works Sub Division, PHENHARA

W. J. J. J. J.
22/11/21
Executive Engineer,
Rural Works Department,
Works Division, PAKRIDAYAL

Post fact T.A./TS is accorded for Rs. 706300=00
(.....crore.....seven.....lacs.....six.....thousand
.....hundred.....) only

8/11/21
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	0.00	Earth	Cum	1.0	0.00	34.82	0.00	0.00	0.00
Brick bats	Cum	222.11	Brick bats	Cum	1.0	222.11	987.00	219222.57	21922.26	21922.26
Sand Bags	per bag	0.00	sand	Cum	0.034	0.00	141.85	0.00	0.00	0.00
1000 MM Dia	RM	5.00	Sand at site	Cum	0.04	0.20	175.80	35.16	3.52	3.52
600 MM Dia	RM	0.00	Sand at site	Cum	0.0032	0.00	175.80	0.00	0.00	0.00
Total Amount of seigniorage fee in construction (Rs)										21925.77

W. Jayaraman
07.11.2021
JE


21/11/21
AZ

Name of Work:-

**Estimate for Repair of Road breaches (Damaged by Flood) for
Motorability in Bara Parsauni To Godhia Tola**

Appendix - II						
Measurement for surfacing the Breach with Brick Bats						
Sl. No.	Chainage	Nos	Length (M)	Av. Width (M)	Thickness (M)	Quantity (cum)
1	0.000 to 0.250	1	11.00	1.50 Av.	0.45 Av.	7.43
2		1	9.20	2.80 Av.	0.25 Av.	6.44
3		1	25.00	3.00 Av.	0.30 Av.	22.50
4		1	70.00	3.00 Av.	0.15 Av.	31.50
5		1	14.00	3.00 Av.	0.25 Av.	10.50
6	0.250 to 0.400	1	7.00	3.00 Av.	0.30 Av.	6.30
7		1	6.00	3.00 Av.	0.15 Av.	2.70
8		1	3.00	1.50 Av.	0.30 Av.	1.35
9	0.400 to 0.700	1	4.50	3.00 Av.	0.30 Av.	4.05
10		1	45.00	4.00 Av.	1.50 Av.	270.00
			Total			362.77
	Deduction for 2Nos old 1000 mm IHP at 5 m (3.142*0.36*5)					-5.66
	Deduction for 0Nos old 600 mm IHP at 0 m (3.142*0.22*0)					0.00
	Net Quantity of Brick Bats					357.11

Upasena
07.11.2021
Junior Engineer

Asst
21/11/21
Assistant Engineer

Karigap
22/11/21
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				815.80
	Rate per t.Km = (a+b+c)/36				22.66
	Say Rs. -				22.66

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				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.	Supplying 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



5/10
 27.11.2021
 JE

Qul
 27/11/21
 Aie

22/11/21
 Q22



Inspection Report For Flood Damage Work

Date :-

1. Name of PIUs- Executive Engineer, RWD. (W.D), Pakridayal.
2. Name of Block – Phenhara.
3. Name of Road – BARA PARSAUNI TO GODHIA TOLA.

(A) For Road

1. Damage Location/Chainage :- 0.000 To 0.250, 0.250 To 0.400 & 0.400 To 0.700
2. Damage Length :- 194.700 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 :- 194.700 Meter.

work found satisfactory


30/11/21
AZ


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 308 अनु

मोतिहारी, दिनांक 19/04/2022

प्रेषक:-

अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल मोतिहारी

सेवा में,

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल पकड़ीदयाल

विषय :- कार्य प्रमंडल पकड़ीदयाल के अधीन वर्ष 2021 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों/पुलियों के कार्योंतर तकनीकी स्वीकृति उपरान्त अग्रेतर कार्रवाई के सम्बन्ध में।

प्रसंग :- आपका पत्रांक- अनु0 दिनांक-
महाशय,

उपर्युक्त विषयक प्रासांगिक पत्र द्वारा प्राप्त कार्य प्रमंडल पकड़ीदयाल के अधीन वर्ष 2021 के बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त निम्नलिखित पथों का प्राक्कलन कार्योंतर तकनीकी स्वीकृति उपरान्त अग्रेतर कार्रवाई हेतु वापस किया जाता है।

क्र.सं	पथ का नाम	लम्बाई (कि०मी०में)	राशि (लाख में)
1	Madhubani Pokhra to Dhumnagar	2.770	2.831
2	Pipra to Mohan Marpa	2.690	3.147
3	Bara Parsauni to Godhia Tola	1.500	7.063
4	Phenhara High School to Rupauliya Mushar tola	2.550	7.489
5	Kakrahiya RCC Bridge to Matharwa Dalit Basti	1.300	6.389
6	Marpa to Rajpur Kawl tola Birit	1.760	5.859
7	Phenhara Prakhanda Antegat Rupaulia Panchayat ke Phulwaria Gaon ke Mahadalit	1.665	3.860
8	Phenhara to Ijorbara	4.780	6.932
9	NHPC Pokhra to Mankarwa	2.281	2.412
10	Deokuliya Phenhara Road to Bari Tola	1.233	0.159
11	Shekhauna to Marpakothi	3.200	1.014
12	Deokuliya chowk to Ratanwa	4.500	6.495
13	Phenhara Darhapur to Pipra Karimdad	1.228	2.495
14	Parsauni Munnial Rai House to Harnathpur River		10.489
15	Phenhara Sheohar RCD Road to Kothi Parsauni		8.785
16	Dhanauji REO Road to Bheriyahi	4.350	10.458
17	Sati Ashtan to PMGSY	0.700	0.960
18	L033 Pakridayal to Chhapra Bhikhari VR1)	4.030	11.588

19	Madhuban Melabazar to Lohargama		12.230
20	Pakridayal Dhaka Road to Harnathpur (Shikarganj Harnathpur)		22.364
21	PWD Road at Chaitya Village of Chaitya Panchayat to Chaitya Hajamtoli Mahadalit Basti		5.107
22	Banjariya to Madhuban Sheohar Sima	2.850	7.548
23	Madhuban to Naurangia	3.180	1.928
24	Wajitpur Sirauli Road Kushwaha tola to Bahuara Teli tola	0.735	2.501
25	Madhuban to Maaripur Maal	5.100	3.778
26	Koriya Kajaraha Nonia tola to Madhuban Sheohar Road	0.850	0.377
27	Wajitpur Sirauli Road to Bahuara Kushwaha Tola	2000	0.14
28	Pundar to Dubha	2.320	2.714
29	Sheohar Kajaraha RCD Road to Delho	1.513	1.206
30	Kauriya to Dubha	5.443	10.488

अनु०- यथोक्त ।

विश्वासभाजन

अधीक्षण अभियंता
ग्रामीण कार्य विभाग,
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ज्ञापक- 308

दिनांक- 19/04/2022

प्रतिलिपि-नोडल पदाधिकारी, (FDR) ग्रामीण कार्य विभाग, बिहार पटना को सूचनार्थ समर्पित ।

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