



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

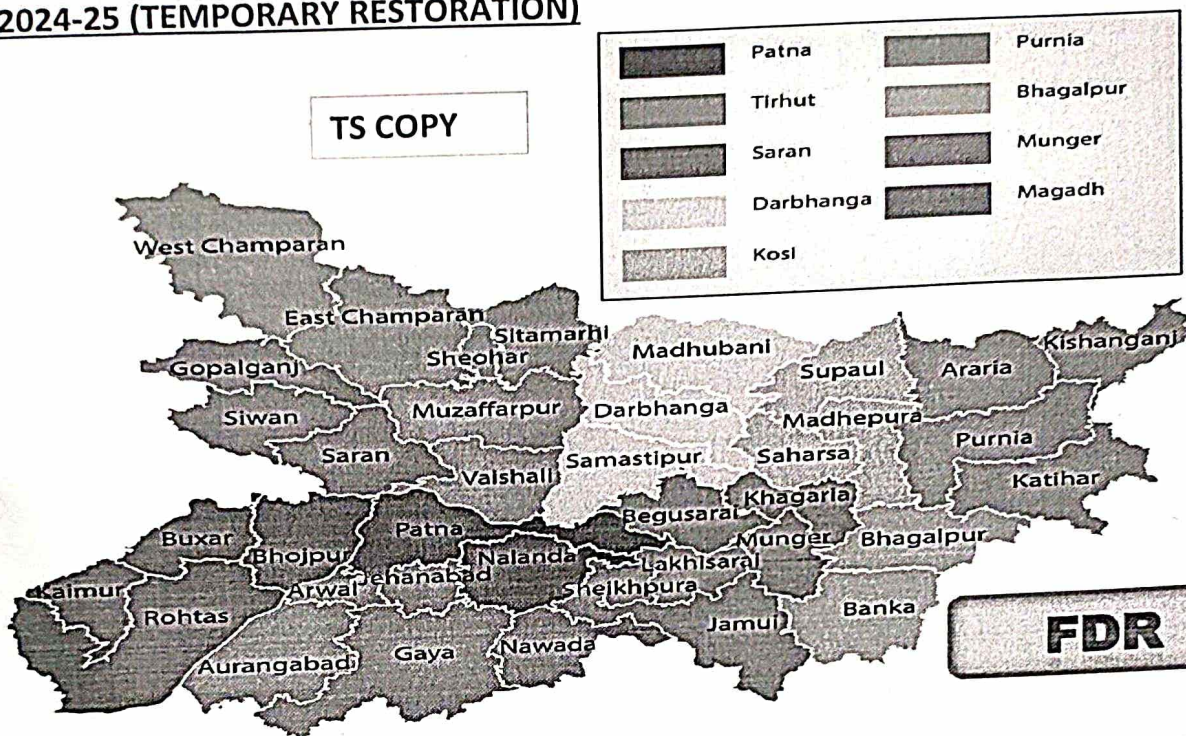
BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

ESTIMATE FOR MOTORABILITY OF ~~APPROACH~~ ROAD BREACHES DAMAGED DURING FLOOD IN 2024

FDR 2024-25 (TEMPORARY RESTORATION)

TS COPY



FDR

DISTRICT :	BEGUSARAI	BLOCK :	BACHHWARA
NAME OF ROAD :	MRL-13 CHAMTHA BAJITPUR OLD BRIDGE TO CHIRAIYAN TOK		
LENGTH OF ROAD	:	6.275	KM
TOTAL COST FOR MOTORABLE OF DAMAGED ROAD	:	4.31152 6.517	Lakhs

Submitted By:

Executive Engineer
RWD (w) Division, TEGHRA
BEGUSARAI

प्रतिवेदन

पथ का नाम - MRL-13 - Chamtha Bajitpur old Bridge to Chiraiyan Tok.

पथ की लम्बाई - 6.275 KM

बाढ़ से क्षतिग्रस्त पथांश की लम्बाई- 110 M

प्रखण्ड - Bachhwara

योजना शीर्ष - FDR 2024-25

अस्थायी कार्य का प्राक्कलित राशि - ~~6.517 Lakh~~ ⁴³¹¹⁵²⁼¹⁰

प्रस्तुत प्राक्कलन FDR 2024-25 अन्तर्गत बेगूसराय जिलान्तर्गत बछवाड़ा प्रखण्ड में आई-2024 के बाढ़ के कारण पथ-MRL-13 - Chamtha Bajitpur old Bridge to Chiraiyan Tok में क्षतिग्रस्त पथ का अस्थायी पुर्नस्थापन कार्य के तकनीकी अनुमोदन हेतु तैयार किया गया है जिसका प्राक्कलित राशि ~~6.517 Lakh~~ ⁴³¹¹⁵² मात्र है।

उपर्युक्त पथ वर्तमान में शीर्ष प्रधानमंत्री ग्राम सड़क योजना के तहत निर्माणाधीन है। माह सितंबर, 2024 के तीसरे सप्ताह से अक्टूबर, 2024 के प्रथम सप्ताह तक गंगा नदी का जलस्तर अचानक बढ़ने के कारण पथ का कुछ पथांश क्षतिग्रस्त हो गया, जिससे वहाँ के लगभग 35,000 आबादी का आवागमन ठप्प हो गया है।

अभियंता प्रमुख-सह-अपर-आयुक्त-सह विशेष सचिव, ग्रामीण कार्य विभाग, बिहार पटना के पत्रांक-मु०अ०-7 (नि० एवं गु०) FDR-09-03/2024-1999 पटना दिनांक -04.06.2024 के आलोक में पानी घटने पर यातायात बहाल करने हेतु क्षतिग्रस्त पथांश में Bricks Bat & Cement Bag with Local Sand से Filling करते हुए अस्थायी पुर्नस्थापन कार्य कराया गया।

प्रस्तुत प्राक्कलन में निहित दर कार्य कराने के समय के अनुसूचित दर के आधार पर सामग्री, यंत्र-संयंत्र एवं श्रम बल के दर का प्रावधान कर तैयार किया गया है।

कार्यहित एवं कार्य की महत्ता के मद्देनजर प्रस्तुत प्राक्कलन की तकनीकी अनुमोदन अपेक्षित है।


14/11/24

कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, बछवाड़ा।


14/11/24

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल, बछवाड़ा।


14/11/24

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, तेघड़ा।

एकल निरीक्षण प्रतिवेदन

विभागीय पत्रांक-मु०डा०-८ (अनु० एवं उन्नयन) FDR-03.01.2024, 106 दिनांक-05.11.2024 में विवेकित गए निर्माण के आलोक में दिनांक-25.11.2024 एवं 27.11.2024 को ग्रामीण कार्य विभाग, कार्य प्रमण्डल, रोसाडा डायरिंग कार्य-2024-25 में बाढ़ से क्षतिग्रस्त निम्नांकित पथों एवं पट्टी पथ का अवस्थापन कार्य का स्थल निरीक्षण क्षेत्रीय अभियंताओं के साथ किया गया एवं कार्य का प्राथमिक स्थल के अनुसार पाया गया, किचे गये कार्य की वर्तमान स्थिति संतोषजनक है एवं पथ का क्षतिग्रस्त पर्याप्त मोटेरेवत है।

Sl No.	Block	Name of Road/Bridge	Length (in Km)
1	Bachhwara	Chamtha Chikdi Harpathouse Of Maheshwar Rai to Chakdi Road.	0.05
2	Bachhwara	MRL-13 - Chamtha Baitpur old Bridge to Chiraiyan tola.	0.21
3	Bachhwara	T04 Kali Mandir to Bisanpur.	0.25
4	Bachhwara	T04 to Dadopur Bridge.	0.07
5	Bachhwara	NH JHAMATIA GHAT - GOPALPUR.	2.00
6	Bachhwara	T04 to Chamtha Chakdi.	0.34
7	Bachhwara	Pmgsyroad to Bandhpar Chamtha Tola.	0.15
8	Bachhwara	Shivjatan Rai to Lanka Tol.	0.512
9	Bachhwara	T04 To Gauspur Bhagwanpur Diyara.	0.43
10	Bachhwara	X Road - Chan Barkhut C. Ghat.	0.022

(अ) 27/11/24
क्षेत्रीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, रोसाडा।

(अ) 27/11/24
सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल, रोसाडा।

(अ) 27/11/24
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, रोसाडा।

(अ) 27/11/24
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, रोसाडा।

GENERAL ABSTRACT OF COST
RESTORATION OF DAMAGED ROAD

Year 2024-25

Name of Road:--

MRL-13 CHAMTHA BAJITPUR OLD BRIDGE TO
CHIRAIYAN TOK

District

Begusarai

Block

Bachharwara

Length of Road

6.275 KM

SL. No.	Particulars	Total Cost (in Rs.)
1	Cost of FDR	3,44,702.00 634228.96
2	Drone Photography @5000/- per stage + Still Photography of Damaged and Restoration work. 2500/- = 15000+2500=17500/- per site	17,500.00 S.F. = 17234 = 00 CSTE 18% = 65769 = 00 17,500.00
	Total Cost of Restoration work	651728.96 431152 = 00
	Say, Rs. In Lakh	6.517


JE
RWD


AE
RWD


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RWD

SE
RWD, Begusarai

Post facto technically approved for Rs. 431152 = 00 (Rupees
four lakh thirty one thousand one hundred fifty two)
only.


SUPERINTENDING ENGINEER
RURAL WORK DEPARTMENT
WORKS CIRCLE-BEGUSARAI

DETAILED ESTIMATE						
Sl. No.		Description	Unit	QUANTITY	RATE	AMOUNT (In Rs.)
1	4.5	Providing brick bats including ,spreading,laying, hand packing and Compacting with CI hammers in layers not exceeding 75mm thick including cost of light barriers, danger signals, choukidar, taxes, royalty etc all complete job as per specifications and direction of E/I including cost of bricks,.....all complete job				
		as per QTY sheet	M ³	162.73	1704.43	277,261.89
					3,021.64	4,91,711.48
2	10.7.40 WRD	Supplying of empty cement bag (sythetic should be old but in good condition) with local sand, carriage, labour cost of roll nylon for stitching of empty bag, laying, stacking properly.....all complete job as per specifications and direction of E/I.				
			No	2,107.000	31.96	67,339.72
					67.64	1,42,517.48
TOTAL COST OF TEMPORARY RESTORATION IN RS.						6,34,228.96

3,44,701.61
say 344702=00


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**Measurment for items of Restoration /Motarable of Road damaged during
Flood 2024**

HEAD : FDR
 Division : Teghra
 Block : Bachhwara
 Name of Road : MRL-13 Chamtha Bajitpur Old Bridge to
 ChiraiyantokT04 se Chamtha Chakki
 Length of Road : 6.275 KM

DETAILS OF MEASUREMENT OF DITCHES FILLED BY BRICK BAT AND RABBISH

Ch. (in KM)	No.	Length	Width	Depth	Qty (M ³)
2.240	1	13.00	4.00	0.40	20.80
2.275	1	28.00	3.75	0.45	47.25
2.310	1	14.00	3.50	0.40	19.60
2.620	1	6.00	4.00	0.30	7.20
	1	3.50	3.10	0.45	4.88
2.650	1	21.00	5.00	0.60	63.00
Total length		85.50	Total Quantity		162.73

DETAILS OF MEASUREMENT OF CEMENT BAG FILLED WITH LOCAL SAND

Ch. (in KM)	No.	Length	Width	Depth	Qty (M ³)
0 to 0.020	1	2.50	1.00	1.20	3.00
	1	1.50	0.60	1.00	0.90
	1	8.00	0.40	0.60	1.92
0.270	1	3.00	0.40	0.40	0.48
	1	1.50	0.60	0.90	0.81
	1	1.00	0.90	1.00	0.90
0.400	1	9.00	1.20	1.30	14.04
0.450	1	17.50	1.10	1.60	30.80
1.200	1	10.00	1.10	1.80	19.80
Total length		54.00	Total Quantity		72.65

No. of Bag = 72.65 x 29 =	2106.85 nos.
Say	2107 nos


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Rate Analysis

Sl. No.	SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
1		Supply of Bamboos (75 mm Dia 6m to 9m Long)	No.			39.30
2	5.7.9	Labour for fitting and fixing 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I				
		Unit = Per mt.				
		Taking Out Put = 30.50 m				
	(i)	Materials				
		Cost of 150 mm long nails	Kg	0.50	61.74	30.87
	(ii)	Labour				
		Carpenter Gr -II	No.	0.125	474	59.25
		Unskilled Labour	No.	0.25	395	98.75
		Rate for 30.5 m				188.87
		Rate for 1 m				6.19
		Total Cost	M		Say.	7.40
3	5.7.7	Labour for cutting 75 mm dia bamboo piles in size and making shoes, driving and sinking etc. complete bob as per specification and direction E/I.				
		Unit = Per m				
		Taking Out Put (Sink depth) = 30.50 m				
		Assurning				
		20 no pile sunk 1.525 m deeps				
		Total depth sunk 30.50 m				
		Labour	No.	0.25	474	118.50
		Carpenter Gr -II	No.	0.65	395	256.75
		Unskilled Labour for piling				375.3
		Rate for 30.5 m				12.30
		Rate for 1 m	M		Say.	12.30
		Rate per m				
4	10.7.40 WRD	Supplying of empty cement bag (sythetic should be old but in good condition) with local sand, carriage, labour cost of roll nylon for stitching of empty bag, laying, stacking properly.....all complete job as per specifications and direction of E/I.				
		Qty= 100Nos				
	A	Materials	No	100	5.50	550.00
		Supply Empty cement Bag	M ³	3.40	145.87	495.96
		Local sand			Total (A)	1045.96
	B	Labour	No	4.67	395.00	1844.65
		Unskilled Labour for filling, stiching, staking, carrying and Placing at work site			Total (B)	1,844.65
		Total per 100 bag				
	C	Carriage Cost of Local sand	Bag	1	305.21	305.21
		Total cost of (A+B+C) =	Bag			3,195.82
		Rate per Bag				31.96

	Haulage excluding Loading & Unloading			
	Haulage of materials by tipper excluding cost of loading, unloading and stacking.			
	Unit = t.km			
	Taking output 3.6 t load and lead 10 km = 36 t.km			
	Case-I : Surfaced Road			
	Speed with load: 15 km per hour			
	Speed while returning empty: 25 km per hour			
	(a) Machinery			
	Tipper 3.6 t capacity			402.00
	Time taken for Haulage with load	Hour	0.67	600.00
	Time taken for Empty return trip	Hour	0.4	600.00
	Total Cost for 36 t.km			17.83
	Rate per t.km			
	Case-II : Katcha Track			
	Speed with load: 10 km per hour			
	Speed while returning empty: 15 km per hour			
	(a) Machinery			
	Tipper 3.6 t capacity			600.00
	Time taken for Haulage with load	Hour	1	600.00
	Time taken for Empty return trip	Hour	0.67	600.00
	Total Cost for 36 t.km			1002.00
	Rate per t.km			
6	Loading and Unloading Aggregate, Stone Boulder, Brick, Kankar, Building Rubbish, Stone, Sand, Moorum			
	Placing tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip.			
	Unit = cum			
	Taking output = 2.25 cum			
	Time required for			
	i) Positioning of tipper at loading point		1 Min	
	ii) Loading by front end loader 1 cum bucket capacity @ 45 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) Machinery	Hour	0.1	600.00
	Tractor 3.60 tonnes capacity (Output 2.25 Cum)	Hour	0.083	1400.00
	Front end-loader 1 Cum bucket capacity @ 25 Cum/hour			60.00
	b) Labour	day	0.03	419.00
	Mate	day	0.72	395.00
	Mazdoor for loading and unloading			284.40
	Cost for 2.25 cum = a+b			473.17
	Rate per cum = (a+b)/2.25			210.30
	Labour and Placing of Brick Bats with light raming			
	Brick Bats	Cum	1.00	994.00
	Cost of labour for pitching and light ramming as per wrd sor	day	0.72	395.00
7	a) Carriage	Puckka	Katcha	loading/unloading
	(surface = 6km, katcha = 1 km)			
		3.6/2.25 *6*17.83	3.6/2.25 *1*27.83	
		171.17	44.53	210.30
	Rate per cum = (a+b+c)			426.00
				1704.40

1704.43

Analysis for Carriage by Road

District :-

Begusarai

Block :- Bachhwara

Sl. No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in KM		Loading & Unloading Cost	Total
				Pucka/ Surface	Katcha		
1	Local Sand (Local by Road 13 KM)	M ³	Local	$\frac{8.00}{4.99} \times 7.94 \times 12 \text{ KM} = 152.75$	$\frac{8.00}{4.99} \times 19.22 \times 1 \text{ KM} = 30.81$	121.65	305.21
2	Brick (Local By Road 12 KM)	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.25 \times 7 \text{ KM} = 203$	$\frac{8.00}{2.00} \times 17.55 \times 1 \text{ KM} = 70.20$	506.68	779.88

Cost of Haulage Excluding Loading & Unloading as per SOR

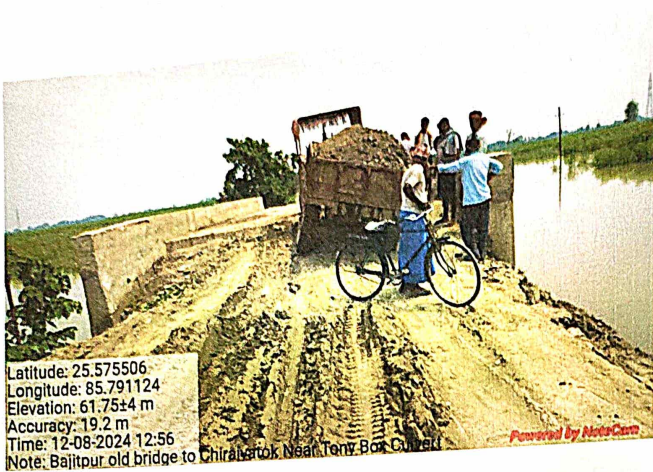
Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	12.10	7.94
Unsurface Gravel Road	14.60	9.55
Kachha Road	29.30	19.22



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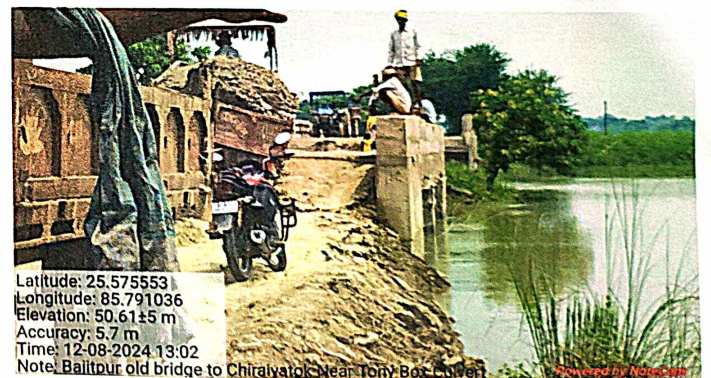
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Latitude: 25.574994
Longitude: 85.791723
Elevation: 52.13±8 m
Accuracy: 5.4 m
Time: 13-08-2024 14:07
Note: Bajitpur old bridge to Chiraiyatok Near Tony Box Culvert

Powered by NoteCam



Latitude: 25.575318
Longitude: 85.791367
Elevation: 36.28±4 m
Accuracy: 3.9 m
Time: 30-10-2024 13:38
Note: Chamtha bajitpur Purana pul to chiraiya tok

Powered by NoteCam



Latitude: 25.584167
Longitude: 85.781825
Elevation: 53.67±7 m
Accuracy: 6.2 m
Time: 30-10-2024 13:03
Note: Chamtha bajitpur Purana pul to chiraiya tok

Powered by NoteCam



Shot on OnePlus
Yund - save - 2024-10-21 18:11

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Name of work -
 Situation of work -
 Agency by which work is executed -
 Date of measurement -
 No. and date of agreement.

(These four lines should be repeated at the commencement of the measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
C.H. -	E-D TR		2024-25		
Name of work - Motorable Road from MRL-13 Chamtha Bagitpur old Bridge to Churairan tok.					
Agency - Departmental through					
Authenticity - EE RWD, Teghna and S.F.'s letter no. - 271 dt - 14-11-24					
Date -	14/11/2024				
Road length -	6.275 km				
Damage length -					
work - 11 Providing and filling back huts in ditch with all complete job as per specification and direction of E/I					
Charnage -					
2240m -	1x	13.00x	4.00x	0.40 =	20.80
2275m -	1x	28.00x	3.75x	0.45 =	47.25
2310m -	1x	14.00x	3.50x	0.40 =	19.60
2620m -	1x	6.00x	4.00x	0.30 =	7.20
	1x	3.50x	3.10x	0.45 =	4.88

Continuation

[illegible]

Continuation

sture

local sand, carriage
Labour -- do --
-- do -- all
complete Job.
qty - 2107.00 bags
@ Rs. 31.96 / bag = 67340=00
3,44702=00
L. cess @ 1% = 3447=00
S. Fee = 17234=00
GST @ 18% = 65769=00
4,31,152=00

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14/11/24

14/4/24
EE