



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

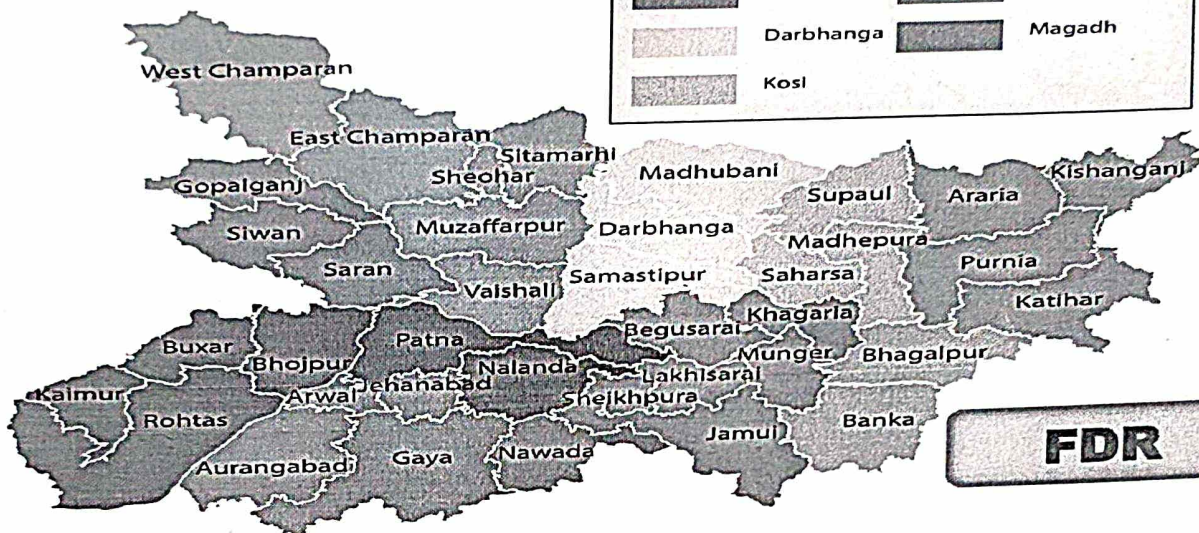
Bihar Rural Road Development Agency (BRRDA)

ESTIMATE FOR MOTORABILITY OF ROAD BREACHES DAMAGED DURING FLOOD IN 2024

FDR 2024-25 (TEMPORARY RESTORATION)

TS COPY

Patna	Purnia
Tirhut	Bhagalpur
Saran	Munger
Darbhanga	Magadh
Kosi	



FDR

DISTRICT :	BEGUSARAI	BLOCK :	BACHHWARA
NAME OF ROAD :	PMGSY ROAD TO BANDHPAR CHAMTHA TOLA		
LENGTH OF ROAD	:	1.424	KM
TOTAL COST FOR MOTORABLE OF DAMAGED ROAD	:	4.18725 6.064	Lakhs

Submitted By:

Executive Engineer
RWD (w) Division, TEGHRA
BEGUSARAI

प्रतिवेदन

पथ का नाम - Pmgysy Road to Bandhpar Chamtha Tola.

पथ की लम्बाई - 1.424 KM

बाढ़ से क्षतिग्रस्त पथांश की लम्बाई- 150 M

प्रखण्ड - Bachhwara

योजना शीर्ष - FDR 2024-25

अस्थायी कार्य का प्राक्कलित राशि - ~~6.064 Lakh~~ ⁴¹⁸⁷²⁵

प्रस्तुत प्राक्कलन FDR 2024-25 अन्तर्गत बेगूसराय जिलान्तर्गत बछवाड़ा प्रखण्ड में आई-2024 के बाढ़ के कारण पथ- Pmgysy Road to Bandhpar Chamtha Tola में क्षतिग्रस्त पथ का अस्थायी पुर्नस्थापन कार्य के तकनीकी अनुमोदन हेतु तैयार किया गया है जिसका प्राक्कलित राशि ~~6.064 Lakh~~ ⁴¹⁸⁷²⁵ मात्र है।

उपर्युक्त पथ वर्तमान में शीर्ष मुख्यमंत्री ग्राम सम्पर्क योजना (एन०डी०वी०) के तहत निर्मित है एवं पंचवर्षीय अनुरक्षण अवधि में 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 26,000 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 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।


15/11/24

कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, बछवाड़ा।


15/11/24

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


15/11/24

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, तेघड़ा।

एकल निरीक्षण प्रतिवेदन

विभागीय पत्रांक-मु०७१०-८ (अनु० एवं उन्नयन) PDR-03.01.2024, 106 दिनांक-05.11.2024 में विवेक गण निरीक्षण के आलोक में दिनांक-25.11.2024 एवं 27.11.2024 को ग्रामीण कार्य विभाग, कार्य प्रमण्डल, तैमड़ा अन्तर्गत वर्ष-2024-25 में बाढ़ से क्षतिग्रस्त निम्नांकित पथों एवं पहुँच पथ का अस्थायी पुर्नस्थापन कार्य का स्थल निरीक्षण क्षेत्रीय अभियंताओं के साथ किया गया एवं कार्य का मापकनन स्थल के अनुक्रम पाया गया, विवेक गण कार्य की वर्तमान स्थिति संतोषजनक है एवं पथ का क्षतिग्रस्त पर्याप्त मोटेरेवेल 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 Dadpur Bridge.	0.07
5	Bachhwara	T04 to Dadpur Bridge.	2.00
6	Bachhwara	NH JHAMATIA GHAT - GOPALPUR.	0.34
7	Bachhwara	T04 to Chamtha Chakdi.	0.15
8	Bachhwara	Pmgsyroad to Bandhpar Chamtha Tola.	0.512
9	Bachhwara	Shivjatan Rai to Lanka Tol.	0.43
10	Bachhwara	T04 To Gauspur Bhagwanpur Diyara.	0.022
		X Road - Chan Barkhut C. Ghat	


27/11/24
क्षेत्रीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, तैमड़ा।


27/11/24
क्षेत्रीय अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल, तैमड़ा।


27/11/24
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, तैमड़ा।


27/11/24
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, तैमड़ा।

GENERAL ABSTRACT OF COST
RESTORATION OF DAMAGED ROAD

Year 2024-25

Name of Road:--

PMGSY road to Bandhpar ChamthaTola

District

Begusarai

Block

Bachharwara

Length of Road

1.424 KM

o.	Particulars	Total Cost (in Rs.)
	Cost of FDR	322,159.00 588857.20
	Drone Photography @5000/- per stage + Still Photography of Damaged and Restoration work. 2500 = 15000 + 2500 = 17500/- per site	 $L\text{-cost @ 1\%} = 3322.00$ $S.F = 19371.00$ $-17,500.00$ $CSTE @ 18\% = 63873.00$
	Total Cost of Restoration work	606357.20 418725=00
	Say, Rs. In Lakh	6.064 418725=00


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 JE
 RWD


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 AE
 RWD


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 EE
 RWD

SE
 RWD, Begusarai

Post-facto technically approved for Rs. 418725=00 (Rupees Four lakh eighteen thousand Seven hundred twenty five) only.


 28/11/24
SUPERINTENDING ENGINEER
RURAL WORK DEPARTMENT
WORKS CIRCLE-BEGUSARAI

 28.11.24

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	194.88	1704.113 3,021.64	3,32,159.32 5,88,857.20
TOTAL COST OF TEMPORARY RESTORATION IN RS.						5,88,857.20

3,32,159.32
say 332159 = 60

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RWD

Measurement for items of Restoration /Motarable of Road damaged during Flood 2024

HEAD : FDR
Division : Teghra
Block : Bachhwara
Name of Road : PMGSY road to Bandhpar ChamthaTola
Length of Road : 1.424 KM

DETAILS OF MEASUREMENT OF DITCHES FILLED BY BRICK BAT AND RABBISH

CH	No.	Length	Width		Avg width	Depth		Avg Depth	Qty (M ³)
at 1.400 KM	1	13.00	2.00	3.50	2.75	1.20	0.75	0.98	34.86
	1	13.50	4.20	5.50	4.85	1.50	1.20	1.35	88.39
	1	12.00	3.25	0.00	3.25	1.20	1.00	1.10	42.90
	1	5.00	3.20	0.00	3.20	1.50	0.00	1.50	24.00
	1	3.00	1.50	0.00	1.50	0.30	1.00	0.65	2.93
	4	1.00	1.00	0.00	1.00	0.45	0.00	0.45	1.80
Total Length		47.50	Total Qty						194.88


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Rate Analysis

No.	SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
1		Supply of Bamboos (75 mm Dia 6m to 8m 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				
		Carpenter Gr -II	No.	0.25	474	118.50
		Unskilled Labour for piling	No.	0.65	395	256.75
		Rate for 30.5 m				375.3
		Rate for 1 m				12.30
		Rate per m	M		Say.	12.30
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				
		Supply Empty cement Bag	No	100	5.50	550.00
		Local sand	M ³	3.40	145.87	495.96
					Total (A)	1045.96
	B	Labour				
		Unskilled Labour for filling, stitching, staking, carrying and Placing at work site	No	4.67	395.00	1844.65
		Total per 100 bag			Total (B)	1,844.65
	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	Hour	0.67	600.00	402.00
	Time taken for Haulage with load	Hour	0.4	600.00	240.00
	Time taken for Empty return trip				642.00
	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	Hour	1	600.00	600.00
	Time taken for Haulage with load	Hour	0.67	600.00	402.00
	Time taken for Empty return trip				1002.00
	Total Cost for 36 t.km				27.83
	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	60.00
	Tractor 3.60 tonnes capacity (Output 2.25 Cum)	Hour	0.083	1400.00	116.20
	Front end-loader 1 Cum bucket capacity @ 25 Cum/hour				
	b) Labour	day	0.03	419.00	12.57
	Mate	day	0.72	395.00	284.40
	Mazdoor for loading and unloading				473.17
	Cost for 2.25 cum = a+b				210.30
	Rate per cum = (a+b)/2.25				
7	Labour and Placing of Brick Bats with light raming				
a)	Brick Bats	Cum	1.00	994.00	994.00
b)	Cost of labour for pitching and light ramming as per wrd sor 6	day	0.72	395.00	284.40
c)	Carriage				
	(surface = 6km, katcha= 1km)	Puckka	Katcha	loading/unloading	
		3.6/2.25 *6*17.83	3.6/2.25 *1*27.83		
		171.17	44.53	210.30	426.00
	Rate per cum = (a+b+c)				
					1704.43

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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DE

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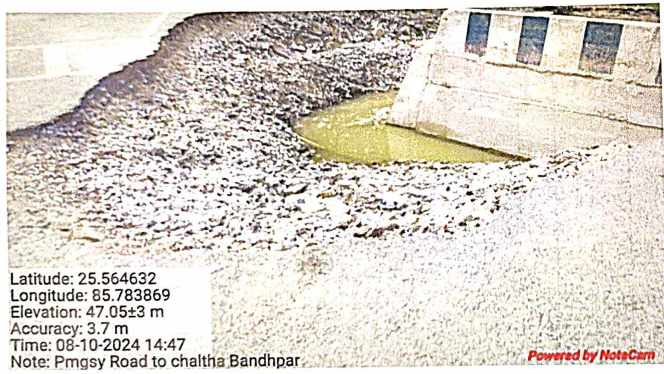
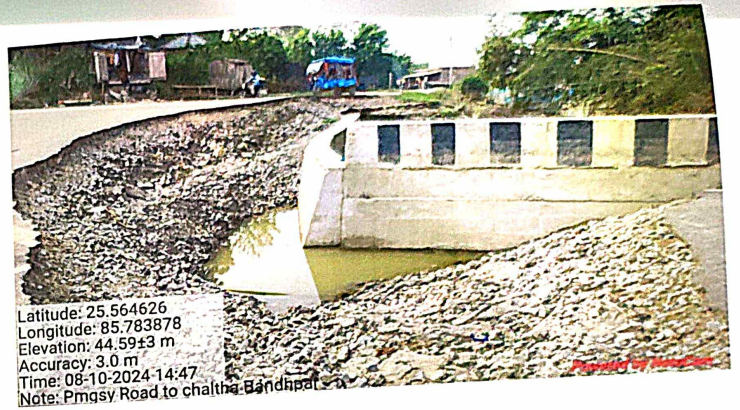
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Name of work -

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-11 -	F.D.R	2024-25			
Name of work -	Materable of Road				
	From PMGSY Road to Chamtha				
	Bandhpan Chamtha tola.				
Agency -	Departmented through				
Authority -	EE, RWD, Teghra and S.F. ¹²				
	Letter no. - 271 dt - 14-11-24				
Date -	14-11-2024				
Road length -	1.424 km				
Damage length -					
Work -	(1) Paving and filling				
	Borrow pits in clutches				
	with all complete job -				
	as per specification				
	and direction of E/I				
Charnage					
1375-1424	1x	$13.00 \times (2.00 + 3.50)$			
		$\times \frac{(1.20 + 0.75)}{2} = 34.86$			
	1x	$13.50 \times (4.20 + 5.50)$			
		$\times \frac{(1.50 + 1.20)}{2} = 88.39$			

Continuation

ABSTRACT OF COST

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1) Providing basic bats including spreading laying, hand packing and compacting with					
— do — do —					
— all complete					
Job.					
Qty - 194.88 m ³					
@ Rs. 1704.43/cum =					3,32,159=00
					3,32,159=00
L-Cess @ 1% =					3322=00
S. Fee =					19371=00

GST @ 18% = 63,873=00

4,18,725=00

of
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Qty
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Qty
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