



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2021 - 2022)

# FDR

## PART A

STATE :- BIHAR  
DISTRICT :- Samastipur  
BLOCK :- Sarairanjan

NAME OF ROAD :- Detailed Estimate For Repair of Flood  
Damaged in L038 To Dakshin Tola

TOTAL COST OF PROJECT :- Rs. 15.859 Lacs

13.5735  
13.0 ok

(12)

**SUBMITTED BY:**

EXECUTIVE ENGINEER  
RWD (W) DIVISION, DALSINGHSARAI  
SAMASTIPUR

**FDR**  
**YEAR (2021 - 2022)**  
**GENERAL ABSTRACT OF COST**

Block:--Sarairanjan


District:--Samastipur

Name of Road:-- Detailed Estimate For Repair of Flood Damaged in L038 To Dakshin Tola

SL. No.	Item of Work	Amount
A		13.5735
	TOTAL COST OF REPAIR DAMAGE	<del>15.859 Lacs</del>
	Sub Total= (A)	15.859 Lacs
		13.5735
	<b>TOTAL cost of project</b>	<del>15.859 Lacs</del>


13.5735 lacs

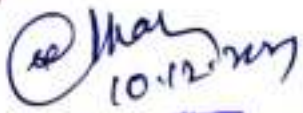
  
 Junior Engineer  
 RWD (w)Section,  
 Sarairanjan

  
 Asstt. Engineer  
 RWD (w)Sub Division, Sarairanjan

  
 Executive Engineer  
 RWD (w) Division,  
 Dalsinghsarai

Technical copy approved for Rs 13,57,350=00 say Thirteen Lacs fifty seven thousand three hundred fifty only for oncluding 12% C.P 10% Bay.

  
 10/12/21  
 T.A

  
 10.12.21  
 10/12/21

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

**NAME OF ROAD :** Detailed Estimate For Repair of Flood Damaged in L038 To  
**DISTRICT** Dakshin Tola  
**BLOCK** Samastipur  
 Sarairanjan

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BAT	114848 13.372
	<b>SUB TOTAL OF PAVEMENT COST IN LACS =</b>	<b>11.445 13.372</b>
	<b>Sub Total :-</b>	<b>1. 13.372</b>
	<b>12% GST on Total Amount :-</b>	<b>1.374 1.605</b>
	<b>1% Lab Cess :-</b>	<b>.1145 0.134</b>
	<b>Seigniorage Fee @ 10%</b>	<b>.64 0.748</b>
	<b>TOTAL COST OF PROJECT IN LACS(including GST 12% &amp; 1% Lab Cess)(A+B+C) :-</b>	<b>15.859</b>

13.5735

*[Signature]*  
28/11/21

Junior Engineer

RWD (w)Section , Sarairanjan

*[Signature]*  
28/11/21

Assistant Engineer

RWD (w)Sub Division , Sarairanjan

*[Signature]*  
02.12.21

Executive Engineer

RWD (w) Division,  
Dalsinghsarai



Sl. No.	Sub Sl. No	MUND Ref No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (In Rs.)
1			<b>Brick Bats</b>								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
			Damaged Strech	cum	2.00	11.60	1.100	0.300	7.66		
			Damaged Strech	cum	1.00	4.60	0.800	0.150	0.55		
			Damaged Strech	cum	2.00	10.40	1.000	0.200	4.16		
			Damaged Strech	cum	1.00	58.00	1.250	0.450	32.63		
			Damaged Strech	cum	1.00	6.00	0.650	0.150	0.59		
			Damaged Strech	cum	2.00	36.00	1.150	0.300	24.84		
			Damaged Strech	cum	1.00	7.40	1.000	0.150	1.11		
			Damaged Strech	cum	2.00	12.50	1.000	0.200	5.00		
			Damaged Strech	cum	1.00	2.30	0.900	0.300	0.62		
			Damaged Strech	cum	2.00	23.25	1.250	0.450	26.16		
			Damaged Strech	cum	2.00	14.00	1.150	0.400	12.88		
			Damaged Strech	cum	1.00	8.20	0.800	0.300	1.97		
			Damaged Strech	cum	1.00	6.45	1.000	0.150	0.97		
			Damaged Strech	cum	1.00	9.00	0.950	0.300	2.57		
			Damaged Strech	cum	1.00	25.00	0.950	0.300	7.13		
			Damaged Strech	cum	2.00	5.30	1.100	0.200	2.33		
			Damaged Strech	cum	1.00	13.00	1.250	0.300	4.88		
			Damaged Strech	cum	1.00	3.60	1.000	0.150	0.54		
			Damaged Strech	cum	1.00	8.20	1.150	0.200	1.89		
			Damaged Strech	cum	2.00	14.00	1.250	0.300	10.50		
			Damaged Strech	cum	2.00	75.00	1.250	0.350	65.63		
			Damaged Strech	cum	2.00	7.00	0.750	0.200	2.10		
			Damaged Strech	cum	1.00	45.00	1.250	0.450	25.31		
			Damaged Strech	cum	1.00	6.00	1.000	0.150	0.90		
			Damaged Strech	cum	2.00	15.00	1.100	0.300	9.90		
			Damaged Strech	cum	1.00	7.50	0.900	0.200	1.35		
			Damaged Strech	cum	1.00	6.00	0.800	0.150	0.72		
			Damaged Strech	cum	2.00	21.00	1.150	0.300	14.49		
			Damaged Strech	cum	<del>2.00</del>	55.00	1.250	0.450	<del>61.88</del>	30.94	
			Damaged Strech	cum	1.00	5.10	0.800	0.150	0.61		
			Damaged Strech	cum	2.00	33.00	1.250	0.300	24.75		
			Damaged Strech	cum	1.00	6.20	0.900	0.150	0.84		
			Damaged Strech	cum	2.00	90.00	1.150	0.300	62.10		
			Damaged Strech	cum	1.00	1.65	0.750	0.100	0.12		
			Damaged Strech	cum	2.00	7.10	1.100	0.200	3.12		
			Damaged Strech	cum	1.00	15.00	1.250	0.300	5.63		
			Damaged Strech	cum	1.00	4.00	1.000	0.150	0.60		
			Damaged Strech	cum	1.00	8.20	0.900	0.250	1.85		
			Damaged Strech	cum	2.00	19.00	1.250	0.450	21.38		

		IN RS.							
Damaged Strech	cum	2.00	22.00	1.250	0.450	<del>24.75</del>	12.38		
Damaged Strech	cum	2.00	10.10	1.150	0.300	6.97			
Damaged Strech	cum	1.00	6.20	1.000	0.150	0.93			
Damaged Strech	cum	2.00	12.72	1.150	0.300	8.78			
Damaged Strech	cum	2.00	14.30	1.250	0.250	8.94			
Damaged Strech	cum	<del>2.00</del>	20.40	1.250	0.450	<del>22.95</del>	11.47		
Damaged Strech	cum	1.00	9.50	1.000	0.150	1.43			
Damaged Strech	cum	1.00	6.10	0.800	0.200	0.98			
Damaged Strech	cum	2.00	23.00	1.150	0.300	15.87			
Damaged Strech	cum	1.00	4.10	0.750	1.500	4.61			
Damaged Strech	cum	2.00	15.90	1.250	0.300	11.93			
Damaged Strech	cum	1.00	5.20	1.100	0.100	0.57			
Damaged Strech	cum	1.00	4.00	0.950	0.200	0.76			
Damaged Strech	cum	2.00	11.00	1.050	0.300	6.93			
Damaged Strech	cum	2.00	7.50	1.000	0.250	3.75			
Damaged Strech	cum	1.00	3.00	1.150	0.150	0.52			
Damaged Strech	cum	<del>2.00</del>	30.00	1.250	0.300	<del>22.50</del>	11.25		
Damaged Strech	cum	1.00	5.20	1.100	0.100	0.57			
Damaged Strech	cum	1.00	4.00	0.950	0.200	0.76			
Damaged Strech	cum	<del>2.00</del>	45.00	1.250	0.250	<del>28.13</del>	14.06		
Damaged Strech	cum	2.00	8.65	1.000	0.300	5.19			
Damaged Strech	cum	1.00	3.50	0.900	0.200	0.63			
Damaged Strech	cum	1.00	2.65	1.150	0.300	0.91			
Damaged Strech	cum	<del>2.00</del>	25.50	1.150	0.300	<del>17.00</del>	8.80		
Damaged Strech	cum	1.00	9.00	1.250	0.250	2.81			
Damaged Strech	cum	2.00	12.30	1.250	0.450	13.84			
Damaged Strech	cum	2.00	11.70	1.000	0.300	7.02			
Damaged Strech	cum	1.00	14.30	1.000	0.200	2.86			
Damaged Strech	cum	1.00	5.10	0.900	0.150	0.69			
Damaged Strech	cum	<del>2.00</del>	22.60	1.250	0.450	<del>25.43</del>	12.73		1144481
			1,094.4		603.40	705.02	1,896.72		13,37,223.73

*[Signature]*  
22-12-2011

Executive Engineer  
RWD (w) Division, Dalsinghsarai

*[Signature]*  
22/11/2011

Assistant Engineer  
RWD (w) Sub Division, Sarairanjan

*[Signature]*  
20/11/2011

Junior Engineer  
RWD (w) Section, Sarairanjan

Sl. No.	SDB No.	MORD RefNo	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
1	3.14	303.1	Brick Bats Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L							
			Unit = cum							
			Taking output = 2.836 cum							
		a)	Material							
			Brick Bats	Cum	2.832	1063.000	3,010.42			
			Cost for 2.836 cum = a				3,010.42			
			Rate Per Cum = (a)/2.836 =	Cum			1,061.50	603.40	640.59	
			Total Cost =	Cum			1,061.50	208.02	2,40,378.22	64051
										74,837.82
										74,837.82
										10% Seigniorage Fee :-



### Analysis of Rates (FORMAT F8)

Sl. No.	S.D.B. No.	MORD File No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
25		C.	600/450 mm dia Hume pipe				
			Unit = per pipe				
			Taking output = 21 pipes				
			a) Labour				
			Mate	day	0.02	321.00	6.42
			Mazdoor (Unskilled)	day	0.50	304.00	152.00
			b) Machinery				
			Truck	hour	0.20	934.30	186.86
			Crane	hour	0.20	909.00	181.80
			c) Overheads @ 12%				63.25
d) Contractor's profit @ 10% on (a+b+c)				59.03			
Cost for 21 pipes = a+b+c+d				649.36			
Rate per pipe = (a+b+c+d)/21				30.92			
Total Cost @ per pipe							30.92
Total Loding & Unloading of RCC Hume Pipe per Pipe							44.98
Total Loding & Unloading of RCC Hume Pipe							75.90
m							75.9 / 250 =
							30.36
26	1.16	100	Setting Out Pillars				
			Unit = 1 No.				
			Analysis of rates per pillar shall account for following :				
			Typical Benchmark 1 no. as per Dwg no. 200.1				
			of MORD Data Book ( Page 1-18 )				
			The rate analysis for a typical benchmark as per dwg.				
			1. Excavation	cum	0.33	334.58	108.74
			2. P.C.C. grade M 10	cum	0.10	5942.23	594.22
			3. Brick Masonry in CM 1:4	cum	0.48	5938.84	2820.95
			4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work.	sqm	2.63	186.79	491.26
Add 5 per cent cost of items No.1 to 4 for white washing.				200.76			
Sub Total							4215.93
A Total 6 Nos. of Pillars required for 1 Km.							25295.58
27	1.16	100	Setting Out Pillars				
			Unit = 1 No.				
			Analysis of rates per pillar shall account for following :				
			Reference Pillar 1 no. as per Dwg no. 200.2				
			of MORD Data Book ( Page 1-18 )				
			The rate analysis for a typical benchmark as per dwg.				
			1. Excavation	cum	0.192	334.58	64.24
			2. P.C.C. grade M 10	cum	0.060	5942.23	356.53
			3. Brick Masonry in CM 1:4	cum	0.193	5938.84	1146.20
			4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work.	sqm	1.50	186.79	280.19
Add 5 per cent cost of items No.1 to 4 for white washing.				92.36			
Sub Total							1939.51
B Total 2 Nos. of reference pillars required for 1 Km.							3879.02
Cost of Setting out							3879.02
Km A + B							29174.60
Total Cost							29174.60
Km							
28	OLD SOR	B.1.3.2 (iii)	Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I including carriage cost of bricks.				
			Unit = cum				
			Assuming- 2.832 Cum				
			a) Labour (Unskilled)				
			i) Carrying, spreading, laying & Packing	nos	1.50	304.00	456.00
			ii) Compaction brick bats with C.I. Hammer.	nos	0.67	304.00	203.68
			iii) Brick Bat	Cum	2.83	1063.00	3010.42
			iv) Local Sand	Cum	0.63	141.85	89.65
			Over Heads @ 12 % on ( a+b+c)				451.17
			C. Profit @ 10 % on ( a+b+c+d)				421.09
d) Cost for 2.832 cum = a+b+c+d				4632.01			
e) Rate Per cum = ( a+b+c+d)/2.832	cum			1635.60			
CARRIAGE							
Carriage for Brick (1 cum Bats = 300 nos Bricks)	nos	0.300	776.64	233.10			
Rate per cum with carriage				1868.70			
Total Cost							1868.70
CUM							



# कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल, दलसिंहसराय, समस्तीपुर

पत्रांक 1963  
प्रेषक,

दलसिंहसराय / दिनांक 26/11/2021

सेवा में,

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, दलसिंहसराय

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, तेघडा।

विषय— एफ०डी०आर योजना के जांच के संबंध में।

प्रसंग— अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार पटना के ज्ञापांक — 4589 दिनांक - 13/11/2021  
महाशय,

उपर्युक्त विषय के संबंध में कहना है कि निम्नलिखित योजनाओं की जांच आपके द्वारा किया जाना है जिसकी सूची प्राक्कलन सहित समर्पित की जाती है।

क्र० सं०	योजना का नाम	प्रखंड	पथ की लम्बाई	प्रा० राशि	अभियुक्ति
1	L079 to Panchayat Harijan Tola	Morwa	0.210	6.23300	
2	Chakdaulat to Akha Road Village road under Ujairpur	Ujiarpur	0.028	2.12000	
3	Nh 28: mazar satanpur to andaha	Ujiarpur	0.060	1.96526	
4	Angar Kerai Path to Angar Kerai(Lilji)	Ujiarpur	0.114	7.73800	
5	Rosera samastipur path to Mahaveer mandir ke nikat se Baijnathpur Bhola Roy Tola Tak	Ujiarpur	0.075	8.94000	
6	Samastipur-Ujjiarpur-Sarairanjan Tajpur Path	Ujiarpur	0.450	13.01000	
7	Constriction of bridge of size 8x24.75 m. on Budhi Gandak river of Mahthi village of Bibhutipur block in Samastipur Dist.	Bibhutipur	0.186	12.10000	
8	L045-LO43 to kerai (VR45)	Bibhutipur	0.205	11.44676	
9	L023-MDR TO3 to Mahti (VR23)	Bibhutipur	0.022	0.94548	
10	Samartha - Chandsurari-Surauli Road	Bibhutipur	1.248	15.33500	
11	Maheshpatti Babulal Chowk to Dhamua Road under Ujjiarpur block.	Ujiarpur	1.097	16.18400	
12	Kalyanpur Mahabir Temple - Mehsari	Bibhutipur	0.645	12.13000	
13	MMGSY to Sahni Tola	Dalsinghsarai	0.114	1.32100	
14	L052-nh to jitwarpur (VR52)	Sarairanjan	0.181	2.60535	
15	T04 to Yadav Tola	Morwa	0.102	2.27553	
16	L073-T06 to Maripur (VR73)	Morwa	0.060	1.02317	
17	NH 103 Halai Bajar to Malpur chauk Bhaya Rariyahi Bandey Hat Maricha path	Morwa	0.200	2.36921	
18	L042 to Dakshin Tola tak Sadak Nirman Karya	Sarairanjan	0.239	5.58181	
19	T03 to Nagargama West	Dalsinghsarai	0.111	3.90934	
20	T01 NH to Harijan Tola	Dalsinghsarai	0.106	6.13551	
21	L039-MDR to Harshankarpur (VR39)	Dalsinghsarai	0.168	7.94500	
22	L.051-T05 to Madhinur (VR51)	Dalsinghsarai	0.025	2.95700	



23	Railway Gumti Raipur Belari path to Mushari	Ujiarpur	0.245	8.30782	
24	SH-103 Petroul Pump to Pachbheda Daddanpur RCD Path(Daddanpur More Chaklral Sahi NH-103 via Pachbheda Path)	Morwa	0.175	1.85146	
25	NH103 - Rampur	Sarairanjan	0.050	2.29068	
26	Lagma to Musapur Bahadurpur Amroli	Sarairanjan	1.900	17.83000	
27	L038 to Dakshin Tola	Sarairanjan	1.095	13.57350	
28	L036 To Dakshin Tola Bhadurpur, Armaluli	Sarairanjan	1.200	5.93200	

विश्वासभाजन

*Chaman*  
16.11.2011

कार्यपालक अभियंता

ग्रामीण कार्य विभाग

कार्य प्रमण्डल, दलसिंहसराय

**अभियंता प्रमुख का कार्यालय**  
**ग्रामीण कार्य विभाग, बिहार, पटना।**

पत्रांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक- 13/11/2021

प्रेषक- अशोक कुमार मिश्रा,  
अभियंता प्रमुख

सेवा में,  
अधीक्षण अभियंता,  
सभी कार्य अंचल,  
ग्रामीण कार्य विभाग।

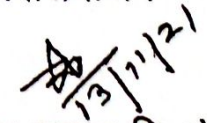
विषय:- वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल करने हेतु किए गए कार्य की जाँच के संबंध में।

महाशय,

वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल करने हेतु किए गए कार्यों की शत प्रतिशत जाँच अपने अंचल के अधीन असंबद्ध कार्यपालक अभियंता एवं उनके अधीनस्थ पदाधिकारियों के दल के माध्यम से सुनिश्चित की जाय। इस जाँच दल के गठन में यह ध्यान रखा जाय कि कार्यपालक अभियंता को जाँच हेतु आवंटित प्रमंडल परस्पर एक दूसरे के प्रमंडल के न हो। जाँच हेतु अंतिम तिथि 25/11/2021 निर्धारित है। इस तरह प्राप्त जाँच प्रतिवेदन भी अन्य सूचनाओं (यथा प्राक्कलन/मापी पुस्तिका की प्रति इत्यादि) की भाँति MIS पर Upload किया जायेगा, जिसके लिए MIS में किए गए प्रावधान के अनुसार अपना जाँच प्रतिवेदन Upload करना सुनिश्चित करें। साथ ही साथ पूर्ण पुनर्स्थापन कार्य हेतु भी DPR निर्माण का कार्य भी 25/11/2021 तक कराया जाए।

उपरोक्त का अनुपालन शत प्रतिशत पथों के लिए सुनिश्चित किया जाय।

विश्वासभाजन

  
(अशोक कुमार मिश्रा)  
अभियंता प्रमुख

ज्ञापांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक 13/11/2021  
प्रतिलिपि:- सभी कार्यपालक अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

  
अभियंता प्रमुख



ज्ञापांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक 13/11/2021  
प्रतिलिपि:- आई0टी0 नोडल, ग्रामीण कार्य विभाग को विभागीय वेवसाइट पर अपलोड करने  
हेतु प्रेषित।

~~13/11/21~~  
अभियंता प्रमुख