



ग्रामीण कार्य विभाग



Rural Works Department, Govt. of Bihar

DETAILED PROJECT REPORT FOR REPAIRING OF ROAD
F.D.R PART-A(2020-21)

DETAILED ESTIMATE FOR F.D.R. RESTORATION WORK

DISTRICT :	BHAGALPUR	BLOCK :	BIHPUR
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NAME OF ROAD :	BIHPUR RAILWAY CABIN EAST PWD ROAD NO.14 to HARIJAN TOLA JHANDAPUR VIA SHEKH TOLA
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Total Length of Road	:	2.800	KMS	
Total Cost of FDR "Part -A"	:	0.632	LACS	
Add GST @ 12 %	:	0.076	LACS	
Add labour cess @ 1%	:	0.006	LACS	
Add SF @10 %	:	0.039	LACS	
Total cost of restoration work	:	0.753	LACS	

SUBMITTED BY

Executive Engineer
Works Division, Navgachhia

21/10/20



GENERAL ABSTRACT OF COST

Name of Road : Bihpur East Railway Cabin PWD Road no 14 Harijan tola
Jhandapur via Shekh tola

District : BHAGALPUR

Length : 2.800 KM

Block : Bihpur

Sl. No.	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	2.800 KM	63154.00
2	Add GST @ 12 %	:		7578
3	ADD LC @1 %	:		632
4	SF @ 10%	:		3907
	Total Cost of Restoration work	:		75271
			Say	75271

75,300.00

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Executive Engineer
RWD(W) Division
Navgachhia

Technically Approved for Rs 75,300.00 (Rupees
Seventy five thousand three hundred only).

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12/11/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
2/12/21

ESTIMATE FOR ROAD RESTORATION WORK

Location of Road : Bihpur East Railway Cabin PWD Road no 14 Harijan tola Jhandapur via Shekh tola

Length : 2.800 KM

Block : Bihpur

District : Bhagalpur

Description	No	Length (m)	Width (m)	H/D (m)	Qty	Unit	Rates (in Rs.)	Amount (in Rs)
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 excluding carriage cost of bricks.								
As per attached "Annexure - A"					36.75			
					36.75	cum	1718.47	63153.77
Total Cost of Flood Protective work =								63154

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ANNEXURE- "A"

Brick Bat Measurement

Name of Road : Bihpur East Railway Cabin PWD Road no 14 Harijan tola Jhandapur via Shekh tola

Length :2.800 KM

Block : Bihpur

Sl. No	Chainage (m)	Nos.	Length (m)	Width (m)		Average width (m)	Depth (m)		Average Depth (m)	Quantity (cum)
1	310-395	2	5.0	3.50	3.50	3.50	0.60		0.60	21.00
		1	5.0	3.50	3.50	3.50	0.90		0.90	15.75

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Rate Analysis for Carriage of Materials

Name of Road : MD. MUSTAKIN KE GHAR TO MURLIDHAR THAKUR KE GHAR TAK VIA MAHADALIT TOLA

Name of Road			Carriage Cost & Lead in Km																	Loading & Unloading Cost	Carriage Cost by Road Head	Total (By Road)
Sl No	Item	Unit	Source	Pukka / Surface						Katcha												
1	Stone Metal Gr-III / GSB	Cum	Mirjachauki	8.00 4.99	x	16.32	x	80.00 Km	=	Rs 2093.21	8.00 4.99	x	25.47	x	0.00 Km	=	Rs 0.00	172.07	0	Rs. 2265.28		
2	Brick/ Brick Bats	Cum	Local	3.60 1.91	x	16.32	x	7.00 Km	=	Rs 215.33	3.60 1.91	x	25.47	x	1.00 Km	=	Rs 48.01	172.07	0	Rs. 435.40		
3	Local Sand	Cum	Local	3.60 2.04	x	16.32	x	2.00 Km	=	Rs 57.60	3.60 2.04	x	25.47	x	1.00 Km	=	Rs 44.95	172.07	0	Rs. 274.62		
4	Earth	Cum	Local	8.00 6.00	x	16.32	x	0.00 Km	=	Rs 0.00	8.00 6.00	x	25.47	x	1.00 Km	=	Rs 33.96	172.07	0	Rs. 206.03		
5	Hume Pipe (1000 mm)	M	Purnia	8.00 10.00	x	16.32	x	52.00 Km	=	Rs 678.93	8.00 10.00	x	25.47	x	0.00 Km	=	Rs 0.00	164.19	0	Rs. 843.12		
6	Hume Pipe (600 mm)	M	Purnia	8.00 25.00	x	16.32	x	52.00 Km	=	Rs 271.57	8.00 25.00	x	25.47	x	0.00 Km	=	Rs 0.00	164.36	0	Rs. 435.93		

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tractor	Per Ton. Km by Tipper
For Surface Road	16.32	
Unsurface Gravel Road	0.00	
Kachha Road	25.47	

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BASIC RATES AS PER LATEST SOR AS ON 06/05/2020 vide RCD letter no- 53 (Encl.), dated- 11.05.2020
(A) LABOUR

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287
L-02	Bitumen Sprayer(semi skilled)	day	302
L-03	Blacksmith,special	day	388
L-04	Blaster, 2nd class	day	477
L-05	Carpenter 1st Class	day	388
L-06	Chips spreader, semi-skilled	day	345
L-07	Chiseller	day	384
L-08	Dresser (Skilled)	day	384
L-09	Driller, 2nd class	day	345
L-10	Electrician,skilled	day	367
L-11	Fitter, skilled	day	395
L-12	Mason (1st class)	day	388
L-13	Mason (2nd Class)	day	345
L-14	Mate, Semi skilled	day	305
L-15	Mazdoor (Unskilled)	day	287
L-16	Mazdoor (Semi skilled)	day	299
L-17	Mazdoor (Skilled)	day	384
L-18	Painter (1st class)	day	367
L-19	Plumber, Special	day	367
L-20	Surveyor	day	349
L-21	White Washer	day	367

SDB SL No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.5	Providing and Laying of Brick Bats				
	Placing tractor at loading point loading with front end loader dump on, turning for return trip excluding time for haulage and return trip				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour				
	Mazdoor (Unskilled)	day	2.170	287.00	622.79
b)	Material				
	Brick Bats	cum	2.830	1,063.00	3008.29
c)	Carriage				
		cum	2.830	435.40	1232.19
	Cost for 5.5 cum = a+b+c				4863.27
	Rate per cum = (a+b+c+d)/2.83	cum			1718.47
	Total per cum	cum			1,718.47
10.7.40	Labour for filling Cement Bag, swing and laying material				
WRD	Unit = Per Bag				
A	Supply Empty cement Bag with Sand	kg	1	7.460	7.46
					7.46
B	Unskilled Mazdoor for filling sand into bag and swing	No	2	287.00	574.00
	Unskilled Mazdoor for filling sand Bag to work site	No	3	287.00	861.00
	Rate per 100 Nos.				1,442.46
	Total per bag				14.42
C	Supply Local sand Cost of Fine Sand				
	Supply Empty Cement Bag				
	Unit = No.				
	Taking output = 1 No.				
	Labour				14.42
	Cost of cement bag with Sand				7.46
	Cost of Local Sand				
	1.2 Cft = 0.034 m ³	cum	0.034	274.62	9.34
	Carriage				
	Total per bag	Bag			31.22
	Total cost of (A + B+C) =				31.22
5.7.52	Supply of New bag and N.C with labour for filling item E.C. bag with local sand, stitching on two lines by approval (1mx1mx1m)				
	Unit = Per N.C.				
	Taking output = 100 Nos filled new bags in 4 nos N.C.				
A	Supply Empty cement Bag with Sand	No	100	14.30	1430.00
	Nylon crate (N.C.)	No	4	39.85	159.40
	Total =				1589.40
	Rate of Material for each N. C. (Total x 25/100)				397.35
B	Labour for filling stitching and stacking in dry position	No	1.67	287	479.29
	Labour for carrying and placing at work site	No	3	287	861.00
	skilled Mazdoor for stitching	No	0.33	364	120.12
	Stitching roll (Nylone)	No	2	30	60.00
	Hire charge of stitching Machine	day	0.33	50	16.50
	Hire charge of Generator 3 KVA	hrs	2.67	74	197.58
	Total =				1734.49
	Rate of Material for each N. C. (Total x 25/100)				433.62
	Rate for each N. C. in dry portion (A + B) =				830.97
C	Carriage :				
	Local sand				
	25 bags = 0.85 m ³	cum	0.85	274.62	233.43
	Carriage for each N. C.	No			233.43
	Total cost of (A + B+C) =	No			1064.40

SDB Sl.No.	DESCRIPTION	UNIT	QTY	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10% Seigniorage Fee
4.5	Providing and Laying of Brick Bats							
	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 = 2.832 cum							
	Materials							
	Brick Bats	cum	2.83	1063.00	3008.29			
	Total per cum	cum			1063.00	36.75	39065.25	3906.53
10.7.40 WRD	Labour for filling Cement Bag, swing and laying materials							
	Unit = Per Bag							
	Supply Empty Cement Bag with Sand							
	Cost of Local sand							
	1.2 cft = 0.034 m ³	cum	0.034	141.85	4.82			
	Total per bag	Bag			4.82			
	Total cost of (A+B+C) =	Bag			4.82	0	0	0
5.7.52	Supply of New bag and N.C with labour for filling item E.C bag with local sand, stitching on two lines by approval (1m x 1m x 1m)							
	Unit = per N.C							
	Carriage							
	Local sand							
	25 bags = 0.85 m ³	cum	0.85	141.85	120.57			
	Carriage for each N.C	No			120.57			
	Total cost of (A+B+C) =	No			120.57	0	0	0
							Total Amount =	3907

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 A.E.

R. W. D. 14/12/20
 Executive Engineer
 R. W. D., W. D. Nagaich



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J.E.

Q. n. 1
21/10/2020
AE

R. W. D.
16/11/2020

Executive Engineer
R. W. D., W. D. Naugachia