



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	
NAME OF ROAD :	RAILWAY CROSSING SADANAND RAI BAGICHA TO DASOLAL PIPAR TOLA			
TOTAL LENGTH OF ROAD	:	1.500	KMS	
TOTAL COST OF F.D.R. PART - A ₁	:	5.682	LACS	
LAND ACQUISITION @ 12 %	:	0.682	LACS	
LAND ACQUISITION COST @ 1 %	:	0.057	LACS	
GRAND TOTAL	:	0.081	LACS	
	:	6.502	LACS	

SUBMITTED BY

The Executive Engineer

Works Division, Naugachhiya

GENERAL ABSTRACT OF COST

Name of Road : RAILWAY CROSSING SADANAND
RAI BAGICHA TO DASOLAL PIPAR
TOLA

District : BHAGALPUR

Block : BIHPUR

Length : 1.500 KM

Sl. No.	Particulars	Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	: 1.500 KM	5,68,204.00
2	Add G.S.T @ 12 %	:	68,184.00
3	Add L.C. @ 1 %	:	5,682.00
4	S.F. @ 10 %	:	8,113.00
	Total Cost of Restoration work	:	6,50,183.00
		Say,	6,50,183.00

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Technically approved for Rs 6,50,800 and Repair
in the fifty thousand eight hundred only,

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Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
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ESTIMATE FOR ROAD RESTORATION WORK

RAILWAY CROSSING SADANAND RAI BAGICHA TO DASOLAL PIPAR

Block: BIHPUR

Length : 1.500 KM

District: BHAGALPUR

No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (in Rs.)	Amount (in Rs.)
107-22	Providing sand bag with sand and labour including carriage laying, filling etc all complete job as per specification and direction of E/I								
	As per attached "Annexure - B"					6,914			
						6,914	/bags	31.22	2,15,855.00
107-23	Providing New bag and N.C with labour for filling with E.C. bag with local sand stitching on two lines by approval (1mx1mx1m)					317			357445
	As per attached "Annexure - C"					317	/ N.C.	1064.40	336683.00
108	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.					9.00			
	As per attached "Annexure - A"					9.00	cum	1718.47	15,466.00
						Total Cost of Flood Protective work =			5,68,294.00

5,68,736.00

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ANNEXURE - " B "

Measurement of E. C. Bags

RAILWAY CROSSING SADANAND RAI BAGICHA TO DASOLAL PIPAR TOLA

Length of Road : 1.500 KM

Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of bag)
419 m LHS	1	10.00	0.50	1.00		0.75	0.30			0.30	2.25	66
430 m LHS	1	20.00	0.80	1.20		1.00	0.50			0.50	10.00	264
450 m LHS	1	20.00	1.00	2.00		1.50	1.00			1.00	30.00	862
450 m LHS	1	20.00	1.00	2.00		1.50	1.20			1.20	36.00	1059
480 m LHS	1	10.00	1.00	3.00		2.00	1.50			1.50	30.00	862
490 m LHS	1	10.00	1.00	3.00		2.00	2.00			2.00	40.00	1176
502 m LHS	1	12.00	1.00	2.00		1.50	1.50			1.50	27.00	794
517 m LHS	1	15.00	1.00	2.00		1.50	1.00			1.00	22.50	662
542 m LHS	1	25.00	1.00	2.00		1.50	0.90			0.90	33.75	993
550 m LHS	1	8.00	0.50	1.00		0.75	0.60			0.60	3.60	106
										Total =	235	6,914

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ANNEXURE - " C "

Measurement of N. C. Bags

RAILWAY CROSSING SADANAND RAI BAGICHA TO DASOLAL PIPAR TOLA

Length of Road : 1.500 KM

Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of NC)
OK 455-460 m LHS	1	5.00	2.00	1.00		1.50	2.00			2.00	15.00	15
OK 460-470 m RHS LHS	1	10.00	2.00	1.00		1.50	2.00			2.00	30.00	30
OK 470-480 m LHS	1	10.00	3.00	2.00		2.50	3.00			3.00	75.00	75
OK 480-495 m RHS LHS	1	15.00	2.00	3.00		2.50	3.00			3.00	112.50	113
OK 495-505 m RHS LHS	1	10.00	2.00	1.00		1.50	2.00			2.00	30.00	30
OK 505-515 m LHS	1	10.00	2.00	1.00		1.50	2.00			2.00	30.00	30
OK 515-523 m LHS	1	8.00	2.00	1.00		1.50	2.00			2.00	24.00	24
Total =											316.50	317

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ANNEXURE - " A "

Brick Bat Measurement

Name of Road :

RAILWAY CROSSING SADANAND RAI BAGICHA TO DASOLAL PIPAR TOLA

Length of Road : 1.500 KM

Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
470 - 482	1	12.00	3.00	2.00		2.50	0.30			0.30	9.00
										Total =	9.00

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Name of Road : RAILWAY CROSSING SADANAND RAI BAGICHA TO DASOLAL PIPAR TOLA

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km												Loading & unloading Cost	Carriage Cost by Rail Road	Total (By Road)
				Puduchai / Surface						Katcha								
1	Stone Metal Gr-III / GSB	Cum	Mirjachaunkh	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	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	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	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	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	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	Rs. 435.93

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	

* Subjected to Verification of Lead

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DESCRIPTION	Unit	QTY	Rate	Amount in Rs
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				
Labour	day	2.170	287.00	622.79
Mazdoor (Unskilled)				
Material	cum	2.830	1,063.00	3008.29
Brick Bats				
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
Labour for filling Cement Bag, swing and laying materials				
Unit = Per Bag				
Supply Empty cement Bag with Sand	kg	1	7.460	7.46
				7.46
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
Supply Local sand Cost of Fine Sand				
Supply Empty Cement Bag				
Unit = No.				
Taking output = 1 No.				14.42
Labour				7.46
Cost of cement bag with Sand				
Cost of Local Sand				
1.2 Cft = 0.034 m ³	cum	0.034	274.62	9.34
Carriage	Bag			31.22
Total per bag				31.22
Total cost of (A + B + C) =				
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.				
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
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 (Nylon)	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
Carriage :				
Local sand	cum	0.85	274.62	233.43
25 bags = 0.85 m ³	No			233.43
Carriage for each N. C.	No			1064.40
Total cost of (A + B + C) =	No			

