



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 :	REO ROAD TO RAMNAGAR SONBARSA
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Total Length of Road	:	2.558	KMS	
Total Cost of FDR "Part -A"	:	1.000	LACS	
Add GST @ 12 %	:	0.120	LACS	
Add labour cess @ 1%	:	0.010	LACS	
Add SF @10 %	:	0.015	LACS	
Total cost of restoration work	:	1.146	LACS	

SUBMITTED BY

Executive Engineer

Works Division, Navgachhia

GENERAL ABSTRACT OF COST

Name of Road : REO Road to Ramnagar Sonbarsha

District : BHAGALPUR

Length : 2.588 KM

Block : Bihpur

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	2.588 KM	100091.00
2	Add GST @ 12 %	:		12011
3	ADD L.C @ 1 %	:		1001
4	S.F. @ 10%	:		1545
	Total Cost of Restoration work	:		114648
			Say	114648 1,14,648/-

[Signature]
21/10/2020
J.E.

[Signature]
21/10/2020
A.E.

[Signature]
16/12/20
Executive Engineer
RWD(W) Division
Navgachhia

Technically Approved for Rs 1,14,648/- (Rupees One lac fourteen thousand six hundred and 48 only)

[Signature]
24/11/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road : REO Road to Ramnagar Sonbarsha
Length : 2.558 KM

Block : Bihpur

District : Bhagalpur

Sl. no	SSR Item no.	Description	No	Length (m)	Width (m)	H/D (m)	Qty	Unit	Rates (in Rs.)	Amount (in Rs)
1	5.7.53	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"					3206			
							3206	bag	31.22	100091.32
Total Cost of Flood Protective work =										100091

Paul
21/10/20
J.E.

Dr. C
21/10/2020
A.E.

Rt 16/11/20
Executive Engineer
RWD (W) Division
Navgachhia

ANNEXURE-"B"

Measurement of E.C. Bags

Name of Road :- REO road to Ramnagar Sonbarsha
Length of Road :- 2.558 KM

sr.n o.	chainage (m)	Nos.	Length	Width (m)		Average width	Depth (m)			Average depth (m)	Qty.	No. of E.C Bags.
		1.0	5.0	2	1	1.5	0.50		0.50	0.50	3.75	110
	200-230	1.0	10.0	2	1.5	1.8	1.00		1.00	1.00	17.50	515
		1.0	8.0	2	2	2.0	1.50		1.50	1.50	24.00	706
1		1.0	12.0	2.0	2.0	2.0	2.00		2.00	2.00	48.00	1412
	230-250	1.0	5.0	2.0	1.5	1.8	1.00		1.00	1.00	8.75	257.4
		1.0	5.0	1.5	1.0	1.3	0.80		0.80	0.80	5.00	147
		1.0	5.0	1.0	1.0	1.0	0.40		0.40	0.40	2.00	59
										Total =	109.00	3206

Block :- Bilhpur

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16/11/2020
R.P.
E.E.

Rate Analysis for Carriage of Materials

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)				
				Pukka / Surface					Katcha											
1	Stone Metal Gr-III / GSB	Cum	Mirjachauld	8.00	x	16.32	x	80.00 Km	=	Rs 2093.21	8.00	x	25.47	x	0.00 Km	=	Rs 0.00	172.07	0	Rs. 2265.28
				4.99							4.99									
2	Brick/ Brick Bats	Cum	Local	3.60	x	16.32	x	7.00 Km	=	Rs 215.33	3.60	x	25.47	x	1.00 Km	=	Rs 48.81	172.07	0	Rs. 435.40
				1.91							1.91									
3	Local Sand	Cum	Local	3.60	x	16.32	x	2.00 Km	=	Rs 57.60	3.60	x	25.47	x	1.00 Km	=	Rs 44.95	172.07	0	Rs. 274.62
				2.04							2.04									
4	Earth	Cum	Local	8.00	x	16.32	x	0.00 Km	=	Rs 0.00	8.00	x	25.47	x	1.00 Km	=	Rs 33.96	172.07	0	Rs. 206.03
				6.00							6.00									
5	Hume Pipe (1000 mm)	M	Purnia	8.00	x	16.32	x	52.00 Km	=	Rs 678.93	8.00	x	25.47	x	0.00 Km	=	Rs 0.00	164.19	0	Rs. 843.12
				10.00							10.00									
6	Hume Pipe (600 mm)	M	Purnia	8.00	x	16.32	x	52.00 Km	=	Rs 271.57	8.00	x	25.47	x	0.00 Km	=	Rs 0.00	164.36	0	Rs. 435.93
				25.00							25.00									

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

21/10/2020
J. E.

21/10/2020
A. E.

16/11/20
E. E.
S. E.

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	368
L-06	Chips spreader, semi-skilled	day	345
L-07	Chiseller	day	364
L-08	Dresser (Skilled)	day	364
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	364
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 dumping, turning for return trip excluding time for haulage and return trip				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour	day	2.170	287.00	622.79
	Mazdoor (Unskilled)				
b)	Materials	cum	2.830	1,063.00	3008.29
	Brick Bats				
c)	Carriage	cum	2.830	435.40	1232.19
					4863.27
	Cost for 5.5 cum = a+b+c				1718.47
	Rate per cum = (a+b+c+d)/2.83	cum			1,718.47
	Total per cum	cum			
10.7.40 WRD	Labour for filling Cement Bag, swing and laying materials				
	Unit = Per Bag	kg	1	7.460	7.46
A	Supply Empty cement Bag with Sand				7.46
		No	2	287.00	574.00
B	Unskilled Mazdoor for filling sand into bag and swing	No	3	287.00	861.00
	Unskilled Mazdoor for filling sand Bag to work site				1,442.46
	Rate per 100 Nos.				14.42
	Total per bag				
C	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	cum	0.034	274.62	9.34
	1.2 Cft = 0.034 m ³				
	Carriage	Bag			31.22
	Total per bag				31.22
	Total cost of (A + B+C) =				
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.	No	100	14.30	1430.00
A	Supply Empty cement Bag with Sand	No	4	39.85	159.40
	Nylon crute (N.C.)				1589.40
	Total =				397.35
	Rate of Material for each N. C. (Total x 25/100)				479.29
B	Labour for filling stitching and stacking in dry position	No	1.67	287	861.00
	Labour for carrying and placing at work site	No	3	287	120.12
	skilled Mazdoor for stitching	No	0.33	364	60.00
	Stitching roll (Nylone)	No	2	30	16.50
	Hire charge of stitching Machine	day	0.33	50	197.58
	Hire charge of Generator 3 KVA	hrs	2.67	74	1734.49
	Total =				433.62
	Rate of Material for each N. C. (Total x 25/100)				830.97
	Rate for each N. C. in dry portion (A + B) =				
C	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			

SDS SI.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			3008.29	0	0	0
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 m³	cum	0.034	141.85	4.82			
	Total per bag	Bag			4.82			
	Total cost of (A+B+C) =	Bag			4.82	3206	15452.92	1545
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 m³	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 =	1545

Signature

Signature
21/10/2024
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