



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 :	GOPALPUR
NAME OF ROAD :	RCD ROAD SUNGATI TO TINTENGA KARARI		
PACKAGE NO.	BR-06R-179		
TOTAL LENGTH OF ROAD	:	1.501	KMS
TOTAL COST OF FDR. PART - A	:	8.577	LACS
ADD G.S.T. @ 12 %	:	1.029	LACS
ADD LABOUR CESS @ 1 %	:	0.086	LACS
ADD SF @ 10 %	:	0.133	LACS
	:	9.825	LACS
SUBMITTED BY <i>The Executive Engineer</i> <i>Works Division, Naugachhiya</i>			

GENERAL ABSTRACT OF COST

Name of Road : RCD ROAD SINGATI TO
TINTENGA KARARI

District : BHAGALPUR

Package No. : BR-06R-179

Block : GOPALPUR

Length : 1.501 KM

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	1.501 KM	8,57,738.00
2	Add G.S.T @ 12 %	:		1,02,929.00
3	Add L.C. @ 1 %	:		8,577.00
4	S. F. @ 10 %	:		13,250.00
	Total Cost of Restoration work	:		9,82,494.00
			Say,	9,82,494.00

Say Rs. 9,82,500.00

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21/10/2020
J. E.

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22-10-2020
A. E.

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16/11/20
Executive Engineer
R. W. D., W. D. Naugachia

Technically Approved for Rs 9,82,500.00 (Rupees
nine lac eighty two thousand five hundred only)

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

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ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: RCD ROAD SUNGATEPO TINTENGA KARARI

Block: GOPALPUR

Package No. BR-06R-179

Length : 1.501 KM

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 cartage laying, filling etc. all complete job as per specification and direction of E/I								
		As per attached "Annexure - B"					27,474	/ bags	31.22	8,57,738.00
							Total Cost of Flood Protective work =			8,57,738.00

J. E.
21/10/2020

A. E.
22-10-2020

R. W. D.
16/11/20
Executive Engineer
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ANNEXURE - " B "

Measurement of E. C. Bags

Name of Road : RCD ROAD SUNGATY TO TINTENGA KARARI

Package No. : BR-06R-179

Length of Road : 1.501 KM

	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of bag)
1	CH.130 m - 350m LHS	1	220.00	8.00	4.00	2.00	4.00	0.30			0.30	264.00	7765
2	CH.140 m - 360m RHS	1	220.00	5.00	2.50	1.50	3.00	0.30			0.30	198.00	5824
3	CH.360 m - 390 m LHS	1	30.00	5.00	2.00		3.50	0.30			0.30	31.50	926
4	CH.400 m - 420 m RHS	1	20.00	5.00	2.00		3.50	0.30			0.30	21.00	618
5	CH.425 m - 470 m LHS	1	45.00	5.00	2.50		3.75	0.30			0.30	50.63	1489
6	CH.435 m - 470 m RHS	1	35.00	4.00	2.00		3.00	0.30			0.30	31.50	926
7	CH.475 m - 550 m LHS	1	75.00	4.00	2.00		3.00	0.30			0.30	67.50	1985
8	CH.580 m - 690 m RHS	1	30.00	5.00	2.00		3.50	0.30			0.30	31.50	926
9	CH.740 m - 750m LHS	1	10.00	5.00	3.00	1.00	3.00	0.30			0.30	9.00	265
10	CH.800 m - 820m RHS	1	20.00	5.00	2.00		3.50	0.30			0.30	21.00	618
11	CH.945 m - 950m LHS	1	5.00	5.00	2.00		3.50	0.30			0.30	5.25	154
12	CH.980 m - 1020m RHS	1	40.00	5.00	2.00		3.50	0.30			0.30	42.00	1235
13	CH.990 m - 1000 m LHS	1	10.00	4.00	2.50	1.00	2.50	0.30			0.30	7.50	221
14	CH.1010 m - 1025m LHS	1	15.00	4.00	2.00		3.00	0.30			0.30	13.50	397
15	CH.1060 m - 1070m RHS	1	10.00	5.00	2.00		3.50	0.30			0.30	10.50	309
16	CH.1090 m - 1115m LHS	1	25.00	4.00	2.00		3.00	0.30			0.30	22.50	662
17	CH.1100 m - 1120m RHS	1	20.00	5.00	2.00		3.50	0.30			0.30	21.00	618
18	CH.1130 m - 1145 m LHS	1	15.00	5.00	2.00		3.50	0.30			0.30	15.75	463
19	CH.1175 m - 1185 m LHS	1	10.00	5.00	2.00		3.50	0.30			0.30	10.50	309
20	CH.1195 m - 1210 m LHS	1	15.00	4.00	2.00		3.00	0.30			0.30	13.50	397
21	CH.1325 m - 1335 m LHS	1	10.00	5.00	2.00		3.50	0.30			0.30	10.50	309
22	CH.1345 m - 1365 m RHS	1	20.00	4.00	2.00		3.00	0.30			0.30	18.00	529
23	CH.1370 m - 1390 m LHS	1	20.00	4.00	2.00		3.00	0.30			0.30	18.00	529
											Total =	934.13	27,474.00

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R. W. D., W. D. Naugachia

Rate Analysis for Carriage of Materials

Name of Road : BR-06R-179

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km												Loading & Unloading Cost	Carriage Cost by Rail Head	Total (By Road)	
				Pucka / Surface						Katcha									
1	Stone Metal Gr-III / GSB	Cum	Mirjachauki	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	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 48.01	172.07	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	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	Rs. 206.03
				6.00							6.00								
5	Hume Pipe (1000 mm)	M	Gudalpur 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	Rs. 843.12
				10.00							10.00								
6	Hume Pipe (600 mm)	M	Gudalpur 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	Rs. 435.93
				25.00							25.00								

* 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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S. E.

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				
	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				1718.47
	Total per cum	cum			1,718.47
10.7.40 WRD	Labour for filling Cement Bag, swing and laying material				
	Unit = Per Bag				
A	Supply Empty cement Bag with Sand	kg	1	7.460	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				
	Cost of cement bag with Sand				14.42
	Cost of Local Sand				7.46
	1.2 Cft = 0.034 m ³				
	Carriage	cum	0.034	274.62	9.34
	Total per bag				
	Total cost of (A + B+C) =	Bag			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)				31.22
	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				
	Carriage for each N. C.	cum	0.85	274.62	233.43
	Total cost of (A + B+C) =	No			233.43
					1064.40

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	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	387
L-20	Surveyor	day	349
L-21	White Washer	day	367

SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10 % Scapshortage 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 Total per cum							
		cum	2.830	1,065.00	3,008.29	0.00	0	0
10.7.40 WRD	Labour for filling Cement Bag, swing and laying materials Unit = Per Bag							
A	Supply Empty cement Bag with Sand Cost of Local Sand 1.2 CB = 0.034 m ³ Total per bag Total cost of (A + B+C) =	Bag	0.034	141.85	4.82			
		Bag			4.82			
		Bag			4.82	27474	122504.35	13242.00
5.7.52	Supply of New bag and N.C with labour for filling item E.C bag with local sand, stretching on two times by approval (1mx1mx1m) Unit = Per N.C.							
C	Carriage : Local sand 25 bags = 0.85 m ³ Carriage for each N.C. Total cost of (A + B+C) =	cum	0.85	141.85	120.57			
		No			120.57			
		No			120.57	0.00	0	0
Total Amount =					13,250			

21/10/2020
J.E.

21/10/2020
J.E.

A.E.

Executive Engineer
R.W.D. W.D. Mangachia

F.D.R. 2020-2021

पथ का नाम :- (आर० सी० डी० रोड सुकटिया से तीनटंगा करारी)
पथ की ल० - 1.501 K.M. , पैकेज सं० - BR-06-R-179
प्रक० - गोपालपुर
शीर्ष - P.M.-N.S.Y.



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कार्यपालक अभियन्ता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल नवगछिया