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 :	NAVATOLIYA MORE TO BHOGIYA BASA

TOTAL LENGTH OF ROAD	:	0.400	KMS	
TOTAL COST OF FDR. PART - A	:	2.762	LACS	
ADD G.S.T. @ 12 %	:	0.331	LACS	
ADD LABOUR CESS @ 1%	:	0.028	LACS	
ADD SF @ 10%	:	0.043	LACS	
	:	3.163	LACS	

SUBMITTED BY

The Executive Engineer

Works Division, Naugachhiya

GENERAL ABSTRACT OF COST

Name of Road : NAVATOLIYA MORE TO BHOGIYA BASA

District : BHAGALPUR

Length : 0.400 KM

Block : GOPALPUR

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	0.400 KM	2,76,172.00
2	Add G.S.T @ 12 %	:		33,141.00
3	Add L.C. @ 1 %	:		2,762.00
4	S. F. @ 10 %	:		4266.00 4,266.00
	Total Cost of Restoration work	:		3,16,339.00 ~~3,16,341.00~~
			Say,	3,16,341.00

Rs 3,16,300.00

21/10/2020
J. E.

22-10-2020
A. E.

16/12
E. E.
Executive Engineer
R. W. D., W. D. Naugachia

Technically approved for Rs 3,16,300.00 (Rupees three lac sixteen thousand three hundred) only,

12/01/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

12/01

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: NAVATOLIYA MORE TO BHOGIYA BASA   Block: GOPALPUR   District: BHAGALPUR   Length : 0.400 KM

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, filing etc all complete job as per specification and direction of E/I								
		As per attached "Annexure - B"					8,846	/ bags	31.22	2,76,172.00
						Total Cost of Flood Protective work =				2,76,172.00

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ANNEXURE - " B "

Measurement of E. C. Bags

Name of Road : NAVATOLIYA MORE TO BHOGIYA BASA

Length of Road : 0.400 KM

Sr. No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of bag)
1	CH.0 m - 10m LHS	1	10.00	5.00	3.00		4.00	0.60			0.60	24.00	706
2	CH.130 m - 190m RHS	1	60.00	6.00	4.00		5.00	0.30			0.30	90.00	2647
3	CH.210 m - 235 m LHS	1	25.00	6.00	4.00		5.00	0.30			0.30	37.50	1103
4	CH.260 m - 270 m RHS	1	10.00	5.00	3.00	1.00	3.00	0.30			0.30	9.00	265
5	CH.315 m - 400 m LHS	1	85.00	7.00	6.00	3.50	5.50	0.30			0.30	140.25	4125
											Total =	300.75	8,846.00

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Rate Analysis for Carriage of Materials

Name of Road : NAVATOLIYA MORE TO BHOGIYA BASA

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km: Pucka / Surface							Katcha							Loading & Unloading Cost	Carriage Cost by Rail Head	Total* (By Road)
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	Godda 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	Godda 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

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

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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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 dumpong ,turning for return trip exluding time for haulage and return tirp				
	Unit = cum				
	Taking output = 2.832 cum				
a)	**Labour**				
	Mazdoor (Unskilled)				
b)	**Materilas**	day	2.170	287.00	622.79
	Brick Bats				
c)	**Carriage**	cum	2.830	1,063.00	3008.29
		cum	2.830	435.40	
	Cost for 5.5 cum = a+b+c				1232.19
	Rate per cum = (a+b+c+d)/2.83				4863.27
	Total per cum	cum			1718.47
10.7.40 WRD	**Labour for filling Cement Bag, swing and laying materilas Unit = Per Bag**	cum			**1,718.47**
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	**7.46**
	Unskilled Mazdoor for filling sand Bad to work site	No	3	287.00	574.00
	Rate per 100 Nos.				861.00
	Total per bag				1,442.46
C	**Supply Local sand Cost of Fine Sand**				**14.42**
	Supply Empty Cement Bag				
	Unit = No.				
	Taking output = 1 No.				
	Labour				
	Cost of cemnt bag with Sand				14.42
	Cost of Local Sand				7.46
	1.2 Cft = 0.034 m^3	cum	0.034	274.62	
	Carriage				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.stiching 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
	Nylan 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 stiching 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 stiching	No	0.33	364	120.12
	Stiching roll (Nylone)	No	2	30	60.00
	Hire charge of stiching 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**

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 (Ist class)	day	387
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 % Seigniorage Fee
4.5	**Providing and Laying of Brick Bats**							
	Placing tractor at loading point loading with front end loader dumpong ,turning for return trip exluding time for haulage and return tirp							
	Unit = cum							
	Taking output = 2.832 cum							
b)	**Materilas**							
	Brick Bats	cum	2.830	1,063.00	3008.29			
	Total per cum	**cum**			**3,008.29**	0.00	0	0
10.7.40 WRD	**Labour for filling Cement Bag, swing and laying materilas** **Unit = Per Bag**							
A	**Supply Empty cement Bag with Sand**							
	Cost of Local Sand							
	1.2 Cft = 0.034 m^3	cum	0.034	141.85	4.82	8846	42637.72	4264.00
	Total per bag	**Bag**			**4.82**			
	Total cost of (A + B+C) =	**Bag**			**4.82**	~~27474~~	~~132504.35~~	~~13250~~
5.7.52	Supply of New bag and N.C with labour for filling item E.C. bag with local sand.stiching on two lines by approval (1mx1mx1m)							
	Unit = Per N.C.							
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**	0.00	0	0

Total Amount = 13,250

21/10/2020

J. E. 21/10/2020 J.E.

22-10-2020

A.E.

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