



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 :	NARAYANPUR
NAME OF ROAD :	L041 - CHHOTI BISHANPUR TO YUSUFPUR CHHOTI FULWARIYA		
PACKAGE NO. :	BR-06R- 254		
TOTAL LENGTH OF ROAD	:	1.400	KMS
TOTAL COST OF FDR. PART - A	:	25.062	LACS
ADD G.S.T. @ 12 %	:	3.007	LACS
ADD LABOUR CESS @ 1%	:	0.251	LACS
ADD SF @ 10%	:	0.383	LACS
	:	28.703	LACS

SUBMITTED BY

The Executive Engineer

Works Division, Naugachhiya

प्रतिवेदन

योजना का नाम :- L041 - Chhoti Bishanpur to Yusufpur Chhoti Fulwariya.

प्रमंडल :- ग्रामीण कार्य विभाग, कार्य प्रमंडल, नवगछिया।

अंचल :- ग्रामीण कार्य विभाग, कार्य अंचल, भागलपुर।

पथ की लम्बाई :- 1.400 कि०मी०

प्राक्कलित राशि :- Rs. 28.703 लाख

प्रस्तुत प्राक्कलन वर्ष 2020 में आयी बाढ़ / अतिवृष्टि से क्षतिग्रस्त पथों की तत्काल मरम्मत कर, यातायात पुनः बहाल करने हेतु तैयार किया गया है। दिनांक- 20/10/2020 को मुख्यालय स्तर पर V.C. के माध्यम से होने वाली समान्य बैठक में दिये गये दिशा निर्देश के अनुपालन एवं कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, नवगछिया का पत्रांक- 1385/नवगछिया, दिनांक- 20/10/2020 के आलोक में प्राक्कलन तैयार किया गया है। बाढ़ के कारण जगह-जगह पर रोडकस्ट में कटाव के साथ-साथ पथ का फलैंक भी क्षतिग्रस्त हुआ है। कटाव के कारण पथ से आवागमन बाधित हो गया है।

अतः आपातकालीन प्रकृति के कार्य को देखते हुए इस क्षतिग्रस्त पथांश में आवश्यकता एवं उपलब्धतानुसार ईट के टुकड़े (Brick Bats) / Sand Bag / NC Bag इत्यादि के द्वारा पथ के पुनःस्थापन का प्रावधान किया गया है। प्राक्कलन में मर्दों का दर, वर्तमान अनुसूचित दर विश्लेषण पर आधारित हैं। प्राक्कलन में Contractor Profit एवं Over Head Charge नहीं जुड़ा हुआ है। जबकि GST एवं Labour Cess को जोड़ा गया है।

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GENERAL ABSTRACT OF COST

Name of Road : L041 - CHHOTI BISHANPUR TO
YUSUPUR CHHOTI FULWARIYA

District : BHAGALPUR

Package No. : BR-06R- 254

Block : NARAYANPUR

Length : 1.400 KM

SL No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	1.400 KM	25,06,177.00
2	Add G.S.T @ 12 %	:		3,00,741.00
3	Add L.C. @ 1 %	:		25,062.00
4	S. F. @ 10 %	:		38,298.00
	Total Cost of Restoration work	:		28,70,278.00
			Say,	28,70,278.00

28,70,300.00

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Technically Approved for Rs 28,70,300.00 (Rupees twenty eight lac seventy thousand three hundred) only

Sh. S.
12/11/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

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12/10/

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: L041 - CHHOTI BISHANPUR TO YUSUFPUR CHHOTI FULWARIYA

Block: NARAYANPUR

Package No.: BR-06R- 254

Length: 1.400 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 carriage laying, filling etc all complete job as per specification and direction of E/I								
		As per attached "Annexure - B"					52723			
							52723	/ bags	31.22	15,45,012.00
2	5.7.52	Providing New bag and N.C with labour for filling item E.C. bag with local sand, stitching on two lines by approval (1mx1mx1m)								
							750			
							750	/ N.C.	1064.40	798300.00
3	4.5	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"					36.00			
							36.00	cum	1715.47	61,965.00
Total Cost of Flood Protective work =										25,06,177.00

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ANNEXURE - " B "

Measurement of E. C. Bags

Name of Road : L041 - CHHOTI BISHANPUR TO YUSUFPUR CHHOTI FULWARIYA

Package No.: BR-06R- 254

Length of Road : 1.400 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.700 m - 1400 m	RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
2		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
3		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
4		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
5		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
6		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
7		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
8		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
9		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
10		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
11		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
12		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
13		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
14		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
15		RHS	1	30.00	1.00	0.50	0.75	6.00	4.00		5.00	112.50	3309
16		RHS	1	10.00	1.00	0.50	0.75	6.00	4.00		5.00	37.50	1103
17	CORNER	1	10.00	2.00	1.00		1.50	3.00	6.00		4.50	67.50	1985
											Total =	1,792.50	52,723

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ANNEXURE - " C "

Measurement of N. C. Bags

Name of Road : L041 - CHHOTI BISHANPUR TO YUSUPPUR CHHOTI FULWARIYA

Package No.: BR-06R- 254

Length of Road : 1.400

Sr. No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quar (No of)
1	CH.700 m - 1400 m	RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
2		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
3		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
4		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
5		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
2		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
6		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
4		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
5		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
6		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
7		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
8		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
9		RHS	1	30.00	2.00	1.00	1.50	1.00			1.00	45.00	45
		RHS	1	10.00	2.00	1.00	1.50	1.00			1.00	15.00	15
10	CORNER	1	10.00	2.00	1.00		1.50	4.00			4.00	60.00	60
											Total =	750.00	750.00

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ANNEXURE - " A "

Brick Bat Measurement

Name of Road : L041 - CHHOTI BISHANPUR TO YUSUPUR CHHOTI FULWARIYA

Package No.: BR-06R- 254

Length of Road : 1.400 KM

Sr.No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
1	1200 - 1400	4	5.00	3.00			3.00	0.60			0.60	36.00
											Total =	36.00

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Rate Analysis for Carriage of Materials

Name of Road : L041 - CHHOTI BISHANPUR TO YUSUPPUR CHHOTI FULWARIYA

SI No	Item	Unit	Source	Carriage Cost & Lead in Km												Loading & Unloading Cost	Carriage Cost by Rail Head	Total* (By Road)
				Pukka / 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	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	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	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	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	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	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

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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	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	290
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				
	Mazdoor (Unskilled)				
b)	Material	day	2.170	287.00	622.79
	Brick Bats				
c)	Carriage	cum	2.830	1,063.00	3008.29
	Cost for 5.5 cum = a+b+c	cum	2.830	435.40	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 material	cum			1,718.47
	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.				
	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 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 (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
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

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 dumpson, turning for return trip excluding time for haulage and return trip							
	Unit = cum							
	Taking output = 2.832 cum							
b)	Materials							
	Brick Bats	cum	2.830	1,063.00	3008.29			
	Total per cum	cum			1,063.00	36.00	38268	3827
10.7.40 WRD A	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	52723	254277.76	25428
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.							
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	750.00	90429.38	9043
Total Amount =								38,298

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