



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 :	MATHURAPUR BAZAR TO RAIPUR HARIJAN TOLA		
TOTAL LENGTH OF ROAD	:	4.700	KMS
TOTAL COST OF FDR. PART - A	:	6.986	LACS
ADD G.S.T. @ 12 %	:	0.838	LACS
ADD LABOUR CESS @ 1%	:	0.070	LACS
ADD SF @ 10%	:	0.155	LACS
	:	8.049	LACS

SUBMITTED BY
The Executive Engineer
Works Division, Naugachhiya

प्रतिवेदन

योजना का नाम :- Mathurapur Bazar to Raipur Harijan Tola .

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

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

पथ की लम्बाई :- 4.700 कि०मी०

प्राक्कलित राशि :- Rs. 8.049 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, S.F एवं Labour Cess को जोड़ा गया है।

Uingl.
21/10/2020

J. E.

Q.m.f.
21/10/2020

A. E.

R.S.
16/10/2020

E. E.

GENERAL ABSTRACT OF COST

Name of Road : MATHURAPUR BAZAR TO RAIPUR
HARIJAN TOLA

District : BHAGALPUR

Block : NARAYANPUR

Length : 4.700KM

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	4.700KM	6,98,604.00
2	Add G.S.T @ 12 %	:		83,832.00
3	Add L.C. @ 1 %	:		6,986.00
4	S. F. @ 10 %	:		15,488.00
	Total Cost of Restoration work	:		8,04,910.00
			Say,	8,04,910.00

8,04,910.00

Vinyl
21/10/20
J. E.

D. M. C.
21/10/2020
A. E.

R. P.
16/11/20
E. E.

Technically Approved for Rs 8,04,910.00 (Rupees eight lac four thousand nine hundred only).

H. M.
12/11/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

R.
12/11

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: MATHURAPUR BAZAR TO RAIPUR HARIJAN TOLA

Block: NARAYANPUR

Length : 4.700KM

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"					7.443	/bags	31.22	2,32,370.00
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)					0			
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.					315	/ N.C.	1064.40	335286.00
		As per attached "Annexure - A"					76.20			
							76.20	cum	1718.47	1,30,948.00
Total Cost of Flood Protective work =										6,98,604.00

Vingl.
21/10/2020
J. E.

Q. n. C.
21/10/2020
A. E.

R. P.
16/10/20
E. E.

ANNEXURE - " B "

Measurement of E. C. Bags

Name of Road : MATHURAPUR BAZAR TO RAIPUR HARIJAN TOLA

Length of Road : 4.700KM

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 2200 m - 3500 m LHS	2	20.00	2.00	1.00		1.50	1.10			1.10	66.00	1941
2		2	20.00	2.00	1.50		1.75	1.20			1.20	84.00	2471
3		1	8.00	2.00	1.00		1.50	1.00			1.00	12.00	353
4		4	25.00	1.00			1.00	1.20			1.20	120.00	3529
5	NEAR PULIYA	2	6.00	3.00	1.00		2.00	1.20			1.20	28.80	847
6		2	1.50	4.00	1.00		2.50	1.10			1.10	8.25	243
											Total =	319	7,443

Vijay
21/10/2020
J.E.

D.N.C
21/10/2020
A.E.

R.P.
16/12/20
E.E.

ANNEXURE - " C "

Measurement of N. C. Bags

Name of Road : MATHURAPUR BAZAR TO RAIPUR HARIJAN TOLA

Length of Road : 4.700KM

Sr. No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of NC)
1	CH.2200 m - 3500 m LHS	1	15.00	4.00	2.00		3.00	4.00			4.00	180.00	180
2		1	9.00	4.00	2.00		3.00	5.00			5.00	135.00	135
											Total =	315.00	315.00

U. S. J.E.
21/10/2020

D. M. C. A.E.
21/10/2020

A. P. E.E.
16/11/20

ANNEXURE - " A "

Brick Bat Measurement

Name of Road : MATHURAPUR BAZAR TO RAIPUR HARIJAN TOLA

Length of Road : 4.700KM

Sr.No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
1	2200 - 3500	1	10.00	3.50			3.50	0.90			0.90	31.50
2		1	15.00	3.30			3.30	0.60			0.60	29.70
3		10	2.00	1.50			1.50	0.50			0.50	15.00
											Total =	76.20

U. Singh
21/10/2020
J. E.

Q. M. C
21/10/2020
A. E.

R. P.
16/11/20
E. 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	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	367
L-20	Surveyor	day	349
L-21	White Washer	day	367

SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
		Haulage with load	hour	1.00	1043.00	1043.00
		Empty return trip	hour	0.67	1043.00	698.81
		Cost for 100t km = a+b+c				1741.81
		Cost for 1 t km = a+b+c/100				17.42
		Total per t per km				17.42
1.10		Haulage excluding Loading & Unloading				
		Haulage of materials by truck excluding cost of Loading, Unloading and stacking				
		Unit = 1km				
		Taking output 10t load and lead 10km = 100t km				
		Case- I : Surfaced Road				
		Speed with load : 25km per hour				
		Speed while returning empty : 35km per hour				
	a)	Machinery				
		truck				
		Haulage with load	hour	0.40	934.30	373.72
		Empty return trip	hour	0.29	934.30	270.95
		Cost for 100t km = a+b+c				644.67
		Cost for 1 t km = a+b+c/100				6.45
		Total per t per km				6.45
		Case- II : Unsurfaced Road				
		Speed with load : 20km per hour				
		Speed while returning empty : 30km per hour				
	a)	Machinery				
		truck				
		Haulage with load	hour	0.50	934.30	467.15
		Empty return trip	hour	0.33	934.30	308.32
		Cost for 100t km = a+b+c				775.47
		Cost for 1 t km = a+b+c/100				7.75
		Total per t per km				7.75
		Case - III Kutcha Track and Track in River Bed / Nallah Bed and Choe Bed				
		Speed with load : 10km per hour				
		Speed while returning empty : 15km per hour				
	a)	Machinery				
		truck				
		Haulage with load	hour	1.00	934.30	934.30
		Empty return trip	hour	0.67	934.30	625.98
		Cost for 100t km = a+b+c				1560.28
		Cost for 1 t km = a+b+c/100				15.60
		Total per t per km				15.60

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

