



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 :	L021-PMGSY ROAD SHAHABAD TO ATHGAMA		
PACKAGE NO. :	BR-06R- 331		
TOTAL LENGTH OF ROAD	:	10.000	KMS
TOTAL COST OF FDR. PART - A	:	56.643 58.942	LACS
ADD G.S.T. @ 12 %	:	6.797 7.073	LACS
ADD LABOUR CESS @ 1%	:	0.566 0.584	LACS
ADD SF @ 10%	:	0.793	LACS
	:	64.799 67.397	LACS
SUBMITTED BY <i>The Executive Engineer</i> Works Division, Naugachhiya			

प्रतिवेदन

योजना का नाम :- L021 - PMGSY Road Shahabad to Athgama.

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

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

पथ की लम्बाई :- 10.000 कि०मी०

प्राक्कलित राशि :- Rs. 64.799 लाख
64.398

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 / Bamboo Pilling / 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।

Vinod
21/10/2020

J. E.

Genl
21/10/2020

A. E.

Am
16/11/20

E. E.

GENERAL ABSTRACT OF COST

Name of Road : L021-PMGSY ROAD SHAHABAD TO
ATHGAMA

District : BHAGALPUR

Package No. : BR-06R- 331

Block : NARAYANPUR

Length : 10.000 KM

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	10.000 KM	56,64,267.00 58,94,208.00
2	Add G.S.T @ 12 %	:		6,79,712.00 703,305.00
3	Add L.C. @ 1 %	:		56,643.00 58,942.00
4	S. F. @ 10 %	:		79,327.00
	Total Cost of Restoration work	:		64,79,949.00 67,39,782.00
			Say,	64,79,949.00

67,39,782.00

67,39,800.00

Vijay
21/10/2020
J. E.

Amol
21/10/2020
A. E.

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

Technically approved for Rs 67,39,800.00 (Rupees
Sixty Seven lac thirty nine thousand eight hundred only)

Amol
12/10/2021
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
12/10/21

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: L021-PMGSY ROAD SHAHABAD TO ATHGAMA

Block: NARAYANPUR

Package No.: BR-06R-331

Length: 10.000 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	5.7.7	Rate for cutting 62 mm to 75 mm dia bamboo pile to size and making shoes and driving etc. all complete job as per specification and direction of E/I								
		Ch. 3200 m - 3500 m	667	4.50			3001.50			
		Ch. 5800 m - 6000 m	329	4.50			1480.50			
							4482.00	m	46.35	2,07,762.00
2	5.7.9	Rate for fitting & fixing 62mm to 75 mm dia bamboo runners in position at every vertical piles with 150 m long nails or 38 swg G.I. wire including cost of G.I. or nails all complete job as per specification and direction of E/I								
			2	300			600.00			
			2	148			296.00			
							896.00	m	24.78	22,202.00
3	5.7.63	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'					10454	/bag	31.22	326374.00
	5.7.53	Providing 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)								
		As per Attached 'Annexure - C'					4758	/N.C	1064.40	5064415.00
	4.5	Providing Brick bats including spreading laying hand packing and compacting with C.S hammer in layers not exceeding 75 mm - 100 mm E/S excluding carriage cost of bricks								
		As per Attached 'Annexure - A'					159.14	cum	1718.47	273477.00

Total Cost of Flood Protective work = 5894208.00

Ujhl
21/10/20
J-E

Qend.1
21/10/20
A-E

21/12/2020
E-E

ANNEXURE - " B "

Measurement of E. C. Bags

Name of Road : L021-PMGSY ROAD SHAHABAD TO ATHGAMA

Package No.: BR-06R- 331

Length of Road : 10.000 K

Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of bags)
CH.3200 m - 3800 m	RHS	1	30.00	1.00	0.50	0.75	0.90			0.90	20.25	596
	RHS	1	30.00	1.00	0.50	0.75	1.30	0.80		1.05	23.63	695
	RHS	1	30.00	1.40	0.80	1.10	1.00			1.00	33.00	971
	RHS	1	30.00	1.20	0.70	0.95	0.90			0.90	25.65	754
	RHS	1	30.00	1.20	0.70	0.95	1.30	0.70		1.00	28.50	838
	RHS	1	30.00	1.30	0.80	1.05	0.90			0.90	28.35	834
	RHS	1	30.00	1.00	0.50	0.75	0.80			0.80	18.00	529
	RHS	1	30.00	1.00	0.60	0.80	0.60			0.60	14.40	424
	RHS	1	30.00	1.20	0.80	1.00	0.90			0.90	27.00	794
	RHS	1	30.00	1.00	0.60	0.80	0.80			0.80	19.20	565
	RHS	1	30.00	1.50	0.80	1.15	0.90			0.90	31.05	913
	RHS	1	30.00	1.00		1.00	1.00			1.00	30.00	882
	RHS	1	30.00	1.20		1.20	0.90			0.90	32.40	953
	RHS	1	30.00	1.00		1.00	0.80			0.80	24.00	706
Total =											355.43	10,454

Vijit
21/10/2020
J.E.

Amir
A.E. 21/10/2020

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

ANNEXURE - " C "

Measurement of N. C. Bags

Name of Road : L021-PMGSY ROAD SHAHABAD TO ATHGAMA

Package No.: BR-06R- 331

Length of Road : 10.000 KM

Chainage (m)		Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of NC)
CH 3200 m - 3500 m	RHS	1	40.00	4.00	2.00		3.00	3.00			3.00	360.00	360
	RHS	1	30.00	4.00	2.00		3.00	4.00			4.00	360.00	360
	RHS	1	130.00	2.00	1.00		1.50	2.00			2.00	390.00	390
CH 5600 m - 6000 m	RHS	1	148.00	3.00	1.00		2.00	3.00			3.00	888.00	888
CH 3500 m - 3800 m	RHS	1	200.00	3.00	1.00		2.00	3.00			3.00	1200.00	1200
	RHS	1	100.00	2.00	1.00		1.50	3.00			3.00	450.00	450
CH 3250 m - 3800 m	RHS	1	30.00	5.00	3.00		4.00	4.00			4.00	480.00	480
	RHS	1	20.00	4.00	1.00		2.50	3.00			3.00	150.00	150
	RHS	1	40.00	4.00	1.00		2.50	3.00			3.00	300.00	300
	RHS	1	30.00	3.00	1.00		2.00	3.00			3.00	180.00	180
											Total =	4,758.00	4,758.00

W. P.
21/10/2020
J. E.

Q. N. S.
A. E. 21/10/2020

A. P.
26/11/20
E. E.

ANNEXURE - " A "

Brick Bat Measurement

Name of Road : L021-PMGSY ROAD SHAHABAD TO ATHGAMA

Package No.: BR-06R- 331

Length of Road : 10.000 KM

Sr.No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
1	5000 - 7000	1	13.60	0.90			0.90	0.40			0.40	4.90
2		1	3.80	5.00			5.00	0.30			0.30	5.70
3		3	2.00	3.00			3.00	0.50			0.50	9.00
4		1	43.10	3.80			3.80	0.60			0.60	98.27
5		1	5.00	1.00			1.00	0.30			0.30	1.50
6		1	3.00	3.80			3.80	0.30			0.30	3.42
7		1	2.00	3.00			3.00	0.40			0.40	2.40
8		1	5.00	1.00			1.00	0.30			0.30	1.50
9		1	7.00	2.00			2.00	0.60			0.60	8.40
10		2	1.00	4.00			4.00	0.40			0.40	3.20
11		1	4.00	4.00			4.00	0.60			0.60	9.60
12		1	12.00	1.00			1.00	0.60			0.60	7.20
13		1	6.00	1.50			1.50	0.45			0.45	4.05
											Total =	159.14

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

Dev. S
21/10/2020
A. E.

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

Rate Analysis for Carriage of Materials

Name of Road : L021-PMGSY ROAD SHAHABAD TO ATHGAMA

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 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	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	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	
Kachia Road	25.47	

21/11/2020
J.E.

21.11.20
A.E.

21/11/20
E.E.

S.E.

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 dumping, turning for return trip excluding time for haulage and return trip							
	Unit = cum							
	Taking output = 2.832 cum							
b)	Material							
	Brick Bats	cum	2.830	1,063.00	3008.29			
	Total per cum	cum			1,063.00	159.14	169165.82	16917
10.7.40 WRD	Labour for filling Cement Bag, swing and laying materials							
A	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	10454	50418.6	5042
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	4758.00	573683.96	57368

Total Amount = 79,327

Unit/1000
21/11/2020
J.E.

Unit/2010/2020
A.E.

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