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 :	SAHPUR REO ROAD TO GANGACHAK		
PACKAGE NO. :	BR-06R- 120		

TOTAL LENGTH OF ROAD	:	3.068	KMS	
TOTAL COST OF FDR. PART - A	:	3.066	LACS	
ADD G.S.T. @ 12 %	:	0.368	LACS	
ADD LABOUR CESS @ 1%	:	0.031	LACS	
ADD SF @ 10%	:	0.190	LACS	
	:	3.654	LACS	

SUBMITTED BY

The Executive Engineer

Works Division, Naugachhiya

<u>प्रतिवेदन</u>

योजना का नाम :- **Sahpur REO Road to Gangachak .**

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

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

पथ की लम्बाई :- 3.068 कि0मी0

प्राक्कलित राशि :- Rs. 3.654 लाख

प्रस्तुत प्राक्कलन वर्ष 2020 में आयी बाढ /अतिवृश्टि से क्षतिग्रस्त पथों की तत्काल मरम्मति 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 बैढक 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 टुकडे (Brick Bats) इत्यादि के द्वारा पथ के पुनःस्थापन का प्रावधान किया गया है। प्राक्कलन में मदों का दर, वर्तमान अनूसुचित 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।

21/10/2020   21/10/2020   16/10/20

J. E.   ***A. E.***   ***E. E.***

GENERAL ABSTRACT OF COST

Name of Road : SAHPUR REO ROAD TO GANGACHAK — District : BHAGALPUR

Package No. : BR-06R- 120 — Block : NARAYANPUR

Length : 3.068 KM

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	3.068 KM	3,06,575.00
2	Add G.S.T @ 12 %	:		36,789.00
3	Add L.C. @ 1 %	:		3,066.00
4	S. F. @ 10 %	:		18,964.00
	Total Cost of Restoration work	:		3,65,394.00
			Say,	3,65,394.00

3,65,400=00

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Technically Approved for Rs 3,65,400=00 (Rupees three lac Sixty five thousand four hundred only.

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

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: SAHPUR REO ROAD TO GANGACHAK　　**Block:** NARAYANPUR

Package No. : BR-06R- 120　　**Length :** 3.068 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	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, royality etc. all complete job as per specification and direction of E/I excluding carriage cost of bricks.								
		As per attached "Annexure - A"					178.40			
							178.40	cum	1718.47	3,06,575.00
						Total Cost of Flood Protective work =				3,06,575.00

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ANNEXURE - " A "

Brick Bat Measurement

Name of Road : SAHPUR REO ROAD TO GANGACHAK

Package No.: BR-06R- 120 **Length of Road :** 3.068 KM

Sr.No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
1	1000 - 2500	1	28.00	5.00	3.00		4.00	1.40	1.00		1.20	134.40
2		5	4.00	2.00			2.00	1.00			1.00	40.00
3		5	2.00	1.00			1.00	0.40			0.40	4.00
											Total =	***178.40***

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Rate Analysis for Carriage of Materials

Name of Road : SAHPUR REO ROAD TO GANGACHAK

Sl No	Item	Unit	Source	Carriage Cost & Lead in Km: Pucka / Surface	Carriage Cost & Lead in Km: 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	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	
Kachha Road	25.47	

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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	299
L-17	Mazdoor (Skilled)	day	364
L-18	Painter (Ist class)	day	367
L-19	Plumber, Special	day	367
L-20	Surveyor	day	349
L-21	White Washer	day	367

DB 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**	day	2.170	287.00	622.79
	Mazdoor (Unskilled)				
b)	**Materilas**	cum	2.830	1,063.00	3008.29
	Brick Bats				
c)	**Carriage**	cum	2.830	435.40	1232.19
					4863.27
	Cost for 5.5 cum = a+b+c	cum			1718.47
	Rate per cum = (a+b+c+d)/2.83	**cum**			**1,718.47**
	Total per cum				
10.7.40 WRD	**Labour for filling Cement Bag, swing and laying materilas**				
	Unit = Per Bag	kg	1	7.460	7.46
A	**Supply Empty cement Bag with Sand**				**7.46**
B	Unskilled Mazdoor for filling sand into bag and swing	No	2	287.00	574.00
	Unskilled Mazdoor for filling sand Bad 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 cemnt bag with Sand				7.46
	Cost of Local Sand	cum	0.034	274.62	9.34
	1.2 Cft = 0.034 m³				
	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.stiching on two lines by approval (1mx1mx1m)				
	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	cum	0.85	274.62	233.43
	25 bags = 0.85 m³	No			
	Carriage for each N. C.	No			233.43
	Total cost of (A + B+C) =	No			**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 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**			**1,063.00**	178.40	189639.2	18964
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			
	Total per bag	**Bag**			**4.82**			
	Total cost of (A + B+C) =	**Bag**			**4.82**	0	0	0

Total Amount = 18,964

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