

अधीक्षण अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, भागलपुर।

E-mail ID- se.bhagalpur.rwd@gmail.com

Mobile No. 8986915214

पत्रांक N23 (अनु०) / भागलपुर

दिनांक 27-12-2021

प्रेषक,

अधीक्षण अभियन्ता,
ग्रामीण कार्य विभाग
कार्य अंचल, भागलपुर।

सेवा में,

नोडल पदाधिकारी,
FDR
ग्रामीण कार्य विभाग,
बिहार, पटना।

विषय :- बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों की आपातकालीन मरम्मत कार्य (मोटरेबुल) के प्राक्कलन
प्रसंग :- का प्रशासनिक अनुमोदन हेतु समर्पित करने के संबंध में।
कार्यपालक अभियन्ता, ग्रामीण कार्य विभाग, कार्य प्रमण्डल, भागलपुर का पत्रांक 1793
(अनु०) दिनांक 13.12.2021

महाशय,

उपर्युक्त विषयक 2021 में आये भीषण बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों में आपातकालीन मरम्मत कार्य का प्राक्कलन कार्यपालक अभियन्ता, ग्रामीण कार्य विभाग, कार्य प्रमण्डल, भागलपुर से प्राप्त हुआ है, जिसे तकनीकी स्वीकृतियोंपरांत प्रशासनिक अनुमोदन हेतु समर्पित किया जाता है, जो निम्न हैं-

क्र०	प्रखण्ड	पथ का नाम	पथ की लम्बाई (कि०मी०में)	तकनीकी स्वीकृति की राशि (लाख में)
1	Nathnagar	NH-80 To Bhuwalpur	1.570	2.286
2	Nathnagar	REO Road Haridaspur To Didarpur	4.000	1.499
3	Nathnagar	REO Road To Raghopur	5.166	6.133
4	Nathnagar	L036 To Ganga Prasad	4.710	2.125
5	Nathnagar	RWD Road Makandpur More /to Bharat Rasalpur	1.909	1.904
6	Nathnagar	NH-80 Near champanala To Raghopur	3.900	4.593

अनु०-यथोक्त

विश्वासभाजन

अधीक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, भागलपुर

27/12/21



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR REPAIRING OF ROAD F.D.R. PART - A (2021 - 22)

DETAILED ESTIMATE For F.D.R. Motrable Work

DISTRICT :	BHAGALPUR	BLOCK :	NATHNAGAR	
NAME OF ROAD :	L036 to GangaPrasad			
Total Length of road	:	4.710 Km		
Total cost of Motorable work	:	1.79	Laes	
GST @12%	:	0.22	Laes	
Labour Cess @ 1%	:	0.02	Laes	
Seigniorage Fee @10%	:	0.10	Laes	
Total Cost	:	2.12	Laes	

SUBMITTED BY
The Executive Engineer
RWD, Works Division, Bhagalpur

Inspection Report For Flood Damage Work

Date:- 5/12/2021

1. Name of PIUs -

2. Name of Block/ Road

Executive Engineer, RWD Bhagalpur
Nath Nefar, LD36 to Ganga Prasad

A. For Road

1. Damage Location/Chainage 1.00km x 3rd km

2. Damage length 47.00 m

3. Nature of Damage BT 9 Gr. 3 damaged

4. Detail of Restoration Works

(i) Material being used in Restoration Works: GSB

(ii) Equipment's/ Tools Being used in Restoration Works: Roller, tractor, & main power

(iii) Procedure Taken up in Restoration Works: Manually

(iv) Restored Length: 20.00 m

B. For Bridge

1. Damage Location/Chainage at 2200 m

2. Damage length 37 m

3. Nature of Damage Approach road & span damaged

4. Detail of Restoration Works

(i) Material being used in Restoration Works: bricks bit

(ii) Equipment's/ Tools Being used in Restoration Works: Tractor, JCB

(iii) Procedure Taken up in Restoration Works: Manually

(iv) Restored Length: 37.00 m

C. Requirement Of New CD/Bridges

(i) Name of Road:

(ii) Location/ Chainage

(iii) Type of CD Work/Length required

Notes:-

- Upload one Photograph of damaged portion if available
- Attach minimum Two Photograph (during restoration & after restoration) Photographs should be Geotags and at Least one Photo be captured in selfie mode.

Signature of JE/AE/EE
5/12/21

5/12/21

Signature
(Name of Inspector)
RAMESH PRASAD

प्रतिवेदन

योजना का नाम – " L036 to GangaPrasad" पथ में बाढ़ से क्षतिग्रस्त भाग का मोटरेबुल कार्य।

पथ की लम्बाई – 4.710 कि०मी०

प्राक्कलित राशि – रु० 2.02495 लाख

वर्ष 2021 में गंगा नदी में आयी भयंकर बाढ़ से ग्रामीण कार्य विभाग, कार्य प्रमण्डल, कहलगाँव अन्तर्गत पीरपैती/कहलगाँव/सबौर एवं सन्हौला प्रखण्ड के लगभग 89 पथ /पुल बाढ़ से प्रभावित हुये हैं। इनमें कुछ पथों में कटाव/गड़ढे हो जाने के कारण विभाग द्वारा समय-समय पर प्राप्त दिशा निर्देशों /अदेशों के आलोक में तत्काल युद्धस्तर पर इन पथों को Brick-Bats/ Sand Bag, Bamboo Piling एवं GSB के द्वारा मोटरेबुल कार्य कराया गया है। मोटरेबुल कार्य के बाद सभी पथों में आवागमन चालू हो चुका है।

कराये गये कार्य का प्राक्कलन ग्रामीण कार्य विभाग, कार्य अंचल भागलपुर के पत्रांक 470 दिनांक 22.06.2021 के द्वारा स्वीकृत दर पर तैयार किया गया है तथा इस कार्य का विवरण विभागीय MIS पर FDR Module में प्रविष्ट किया गया है।

कार्य के उपरान्त इसकी तकनीकी अनुमोदन सह तकनीकी स्वीकृति अपेक्षित है।


कनीय अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, नाथनगर


सहायक अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल नाथनगर


कार्यप्रलक अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल भागलपुर

GENERAL ABSTRACT OF COST

Name of Road : L036 to GangaPrasad

District : BHAGALPUR

Length of Road : 4.710 Km

Block : NATHNAGAR

Sl. No	Particulars		Details	Total Cost (in Rs.)
A	Cost of Road Motorable work	:	4.71	179202 179,495.00
B	GST @12%	:		21505 21,505.00
C	Labour Cess @ 1%	:		1792 1,791.95
D	Seigniorage Fee @10%	:		9994 9,994.95
	Total Cost of Restoration work	:		212498 212,495.00
			SAY	2,02,495.00

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A. E.

E. E.

Technically sanctioned for Rs. 2,12,498/- (Two lakh twelve thousand four hundred 98 only).

Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
27/12/21

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: L036 to GangaPrasad

Block: NATHNAGAR

District: BHAGALPUR Length : 9.320 KM

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, royalty etc. all complete job as per specification and direction of E/I excluding carriage cost of bricks.								
		As per attached "Annexure - "A"					87.38			
							87.38	cum	1750.04	1,52,810.00
2	4.5	Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading II Material Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.								
		As per attached "Annexure - "B"					11.25			
							11.25	cum	2336.82	26,289.00
							Total Cost of Flood Protective work =			1,79,199.00

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A. E. 29/11/21

E. E. 29/11/21

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L036 to Ganga Prasad

Brick-Bats Details

Annexure- A

Chainage	No.	Length (in m)	Width (in m)	Depth (in m)	Qty (in Cum)	Remarks
<u>Near Old Damage</u>	1 x	14.00	x 4.50	x 1.00	= 63.00	Pot Patch
<u>Bridge</u>	1 x	13.00	x 3.75	x 0.50	= 24.38	Pot Patch
				Total	= 87.38 cum	

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GSB Grading IIAnnexure- B

Chainage	No.	Length (in m)	Width (in m)	Depth (in m)	Qty (in Cum)	Remarks
<u>Near School</u>	1 x	20.00	x 3.75	x 0.15	= 11.25	Pot Patch
Total = 11.25 cum						

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Carriage Cost of Material via Road

RWD, works Division, Bhagalpur

Name of Road : L036 to GangaPrasad

Block : NATHNAGAR

1	Stone Metal Gr-II/Via Road	Cum	Mirza Cheuki	8.00 4.59	x 7.47	x 83 Km	= Rs 1080.63	8.00 4.59	x 18.09	x 0 Km	= Rs 0.00	193.62	1274.25	0.00	1274.25	1274.25
2	Stone Metal Gr-III / GSB Via Road	Cum	Mirza Cheuki	8.00 4.99	x 7.47	x 83 Km	= Rs 994.00	8.00 4.99	x 18.09	x 0 Km	= Rs 0.00	193.62	1187.62	0.00	1187.62	1187.62
3	Stone Aggregate / Chips Via Road	Cum	Mirza Cheuki	8.00 4.99	x 7.47	x 83 Km	= Rs 994.00	8.00 4.99	x 18.09	x 0 Km	= Rs 0.00	193.62	1187.62	0.00	1187.62	1187.62
4	Stone Boulder /Via Road	Cum	Mirza Cheuki	8.00 4.80	x 7.47	x 83 Km	= Rs 1033.35	8.00 4.80	x 18.09	x 0 Km	= Rs 0.00	193.62	1226.97	0.00	1226.97	1226.97
5	Coarse Sand/Via Road	Cum	Hanmara	8.00 4.99	x 7.47	x 36 Km	= Rs 431.13	8.00 4.99	x 18.09	x 0 Km	= Rs 0.00	104.88	536.01	0.00	536.01	536.01
	Mooram/Via Road	Cum	Mirza Cheuki	8.00 6.00	x 7.47	x 83 Km	= Rs 826.68	8.00 6.00	x 18.09	x 0 Km	= Rs 0.00	104.88	931.56	0.00	931.56	931.56
	Bitumen Barauni/ Via Road	MT	Barauni	8.00 8.00	x 7.47	x 125 Km	= Rs 933.75	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	365.00	1298.75	0.00	1298.75	1298.75
	Bitumen Emulsion /Via Road	MT	Fatuha	8.00 8.00	x 7.47	x 212 Km	= Rs 1583.64	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	365.00	1948.64	0.00	1948.64	1948.64
9	Local Sand	Cum	Local	8.00 4.99	x 7.47	x 2 Km	= Rs 23.95	8.00 4.99	x 18.09	x 1 Km	= Rs 29.00	104.88	157.83	0.00	157.83	157.83
10	Brick	1000 Nos	Local	8.00 2.00	x 7.47	x 7 Km	= Rs 209.16	8.00 2.00	x 18.09	x 1 Km	= Rs 72.36	441.62	723.14	0.00	723.14	723.14
11	Cement	MT	Local	8.00 8.00	x 7.47	x 7 Km	= Rs 52.29	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	317.64	369.93	0.00	369.93	369.93
12	Steel	MT	Local	8.00 8.00	x 7.47	x 7 Km	= Rs 52.29	8.00 8.00	x 18.09	x 0 Km	= Rs 0.00	337.70	389.99	0.00	389.99	389.99
13	Hume Pipe (1000 mm)	M	Godda	8.00 10.00	x 7.47	x 68 Km	= Rs 406.37	8.00 10.00	x 18.09	x 0 Km	= Rs 0.00	75.69	482.06	0.00	482.06	482.06
14	Hume Pipe (600 mm)	M	Godda	8.00 25.00	x 7.47	x 68 Km	= Rs 162.55	8.00 25.00	x 18.09	x 0 Km	= Rs 0.00	32.44	194.99	0.00	194.99	194.99
15	Hume Pipe (300 mm)	M	Godda	8.00 60.00	x 7.47	x 68.00 Km	= Rs 67.73	8.00 60.00	x 19.82	x 0 Km	= Rs 0.00	32.44	100.17	0.00	100.17	100.17
16	Bamboo	Nos	Kursela	8.00 8.00	x 7.47	x 42 Km	= Rs 313.74	8.00 8.00	x 19.82	x 0 Km	= Rs 0.00	317.64	369.93	0.00	631.38	631.40
17	Brick bats	Cum	Local	8.00 2.00	x 7.47	x 7 Km	= Rs 209.16	8.00 2.00	x 18.09	x 1 Km	= Rs 72.36	193.62	1274.25	0.00	475.14	475.14
18	Klin Rubl ish	Cum	Local	8.00 2.00	x 7.47	x 7 Km	= Rs 209.16	8.00 2.00	x 18.09	x 1 Km	= Rs 72.36	104.88	157.83	0.00	386.40	386.40

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Final Rate for FDR 2021-22
R.W.D. Works Division Bhagalpur

I. Material									
Sl. No.	Material	Unit	Basic Rate	Carriage	SF 10%	Overhead & CP 15%	Total	GST 12% & LC 1%	Grand total
1	Empty Cement Bags	Each	2.92	0.30	0.00	0.48	3.70	0.48	4.18
2	Bamboos								
	i) 75 mm Dia 6m to 8m long	Each	141.5	2.26	0.00	21.56	165.32	21.49	186.81
	i) 100 mm Dia 6m to 8m long	Each	151.5	2.26	0.00	23.06	176.82	22.99	199.80
3	Brickbats	Cum	1051	475.10	105.10	244.68	1875.88	243.86	2119.74
4	Local Sand	Cum	141.85	157.80	14.19	47.08	360.91	46.92	407.83
5	Kiln Rubbish	Cum	1648	386.40	164.80	329.88	2529.08	328.78	2857.86
6	Hume Pipe (NP3)								
	600mm Dia	Meter	1582.72	194.99	0.00	266.66	2044.37	265.77	2310.13
7	Hume Pipe (NP3)								
	1000mm Dia	Meter	2744.5	482.10	0.00	483.99	3710.59	482.38	4192.97
8	Boulders	Cum	355.68	1226.97	35.57	237.40	1855.62	241.23	2096.85
9	Granular Sub base Material Grading-II								
	i) 26.50 mm to 9.50 mm	Cum	604.91	1274.25	60.49	281.87	2221.53	288.80	2510.32
	ii) 9.50 mm to 4.75 mm	Cum	582.8	1274.25	58.28	278.56	2193.89	285.21	2479.09
	iii) 4.50 mm below	Cum	514.58	1274.25	51.46	268.32	2108.61	274.12	2382.73
10	Stone Metal Aggregates Gr-II	Cum	480.64	1274.25	48.06	263.23	2066.19	268.60	2334.79
11	Stone Metal Aggregates Gr-III	Cum	511.44	1187.62	51.14	254.86	2005.06	260.66	2265.72
12	Screening Material Type-B	Cum	397.73	931.56	39.77	199.39	1568.46	203.90	1772.36

II. LABOUR							
	Type	Unit	Basic Rate	Overhead & CP 15%	Total	GST 12%	Grand total
1	Unskilled Labour	Per Day	292	43.80	335.80	43.65	379.45
2	Semi Skilled Labour	Per Day	304	45.60	349.60	45.45	395.05
3	Skilled labour	Per Day	370	55.50	425.50	55.32	480.82
4	Mason	Per Day	351	52.65	403.65	52.47	456.12
5	Head mason	Per Day	394	59.10	453.10	58.90	512.00
6	Bhisti	Per Day	292	43.80	335.80	43.65	379.45
7	Carpenter	Per Day	351	52.65	403.65	52.47	456.12
8	Head Carpenter	Per Day	394	59.10	453.10	58.90	512.00
9	Night Guard	Per Day	485	72.75	557.75	72.51	630.26
10	Electrician	Per Day	373	55.95	428.95	55.76	484.71

III. TOOLS, PLANTS & MACHINERIES WITH DRIVER & FUEL									
SL	Description of Machine	Unit	Output of	Output	Basic	Overhead	Total	GST	Grand total
1	Front End Loader 1.0 cum bucket capacity (JCB)	Per Hour	Cum/hour	60/25	1403.00	210.45	1613.45	209.75	1823.20
2	8-10 Ton Smooth Wheeled Roller	Per Hour	Cum/hour	70/25	803.00	120.45	923.45	120.05	1043.50
3	Tractor with Trolley	Ton/ Trip	Cum/hour	3 to 5 Ton	549.00	82.35	631.35	82.08	713.43
4	Tipper	Ton/ Trip	Cum/hour	5.5	1183.00	177.45	1360.45	176.86	1537.31
5	Tractor with Tipper	Ton/ Trip	Cum/hour	3 to 5 Ton	1732.00	259.80	1991.80	258.93	2250.73
6	Generator Set	Per Hour	Cum/hour	5	300.00	45.00	345.00	44.85	389.85

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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 dumpoing ,turning for return trip exluding time for haulage and return tirp				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour				
	Mazdoor (Unskilled)	day	2.170	292.00	633.64
b)	Materilas				
	Brick Bats	cum	2.830	1,051.00	2974.33
c)	Carriage				
		cum	2.830	475.14	1344.65
	Cost for 5.5 cum = a+b+c				4952.62
	Rate per cum = (a+b+c+d)/2.83	cum			1750.04
	TOTAL Rate per cum	Cum			1750.04

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SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.1	Granular Sub-base with Well Graded Material (Table 400.1)				
	(By mix in place method) For Grading II Material				
	Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
(ii)	For Grading II Material				
	Unit = cum				
	Taking output = 300 cum				
a)	Labour				
	Mate	day	0.40	304.00	121.60
	Mazdoor (Skilled)	day	2.00	370.00	740.00
	Mazdoor (Unskilled)	day	8.00	292.00	2336.00
b)	Machinery				
	Tractor mounted grader arrangement for grading @ 100 cum per	hour	12.00	573.20	6878.40
	Three wheel 80-100 kN static roller @ 10 cum per hour	hour	12.00	803.00	9636.00
	Tractor with Rotavator 25 cum per hour	hour	12.00	573.20	6878.40
	Water tanker 6 kl capacity	hour	5.00	184.00	920.00
c)	Material				
	Well graded granular sub-base material as per Table 400.1				
	26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	604.91	81299.90
	9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	582.80	55948.80
	2.36 mm below @ 40 per cent - Local Sand	cum	153.60	514.58	79039.49
	Water	kl	30.00	40.00	1200.00
	Cost of GSB for 300 cum				244998.59
	A) Cost of GSB without carriage per cum	cum			816.66
f)	CARRIAGE				
	Carriage for GSB material	Cum	0.768	1187.62	912.10
	Carriage for material below 2.36 mm (Local Sand)	Cum	0.512	1187.62	608.06
	Rate per Cum with Carriage	Cum			2336.62

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Material Statement and S.F Calculation

L036 to GangaPrasad

Sl. No.	Description of Wotk	material Details	unit	Per Unit Qty	Consumen d Qty	Rate of material	Total Rate	Total amount	10% S.F amount
1	Brick Bats	Brick bats	Cum	2.83		1051.00	2976.43		
		Cost of 2.832 Cum =A					2976.43	91836.28	
		Rate per Cum -(A/2.832)			87.38		1051.00	91831.13	9183.11
1	Granular Sub base (GSB)	53mm to 9.5 mm	Cum	134.40		604.91	81299.90		
		9.5 mm to 2.36	Cum	96.00		582.80	55948.80		
		coarse sand	Cum	153.60		514.58	79039.49		
		Cost of 300 Cum =A					216288.19		
		Rate per Cum -(A/300)			11.25		720.96	8110.81	811.08
								Total Rs.	9994.19

29/10/21
S.C.

29/10.2021
4/6

2/12/21

Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : L036 to GangaPrasad

Length (Km) : 4.71



29/10/21
J.C.

8/3
25/10.2021
43

21/10/21

Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : L036 to GangaPrasad

Length (Km) : 4.71



29/10/21
J.C