

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

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

Mobile No. 8986915214

पत्रांक N23 (अ.अ.)/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 (कि०मी०मे)	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 Raghobpur	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 Raghobpur	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 :	NH80 to Bhuwalpur		
Total Length of road	:	1.570 Km	
Total cost of Motorable work	:	1.93	Laes
GST @12%	:	0.23	Laes
Labour Cess @ 1%	:	0.02	Laes
Seigniorage Fee @10%	:	0.10	Laes
Total cost	:	2.29	Laes

SUBMITTED BY
The Executive Engineer
RWD, Works Division, Bhagalpur

Inspection Report For Flood Damage Work

5/11/21 Executive Engineer, RWD Bhagalpur
Name of PIUs -
Name of Block/ Road Nathnagar / NH 80 to Bhawalpur

For Road

1. Damage Location/Chainage at 300m

2. Damage length 47.00m

3. Nature of Damage surface damaged

4. Detail of Restoration Works

(i) Material being used in Restoration Works: Bricks bat s G.B

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

(iii) Procedure Taken up in Restoration Works: JCV main Power manually

(iv) Restored Length: 47.00m

For Bridge

1. Damage Location/Chainage

2. Damage length

3. Nature of Damage

4. Detail of Restoration Works

(i) Material being used in Restoration Works:

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

(iii) Procedure Taken up in Restoration Works:

(iv) Restored Length:

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.

5/11/21
Signature of JE/AE/EE

05/12/20
Signature
(Name of Inspector)
RAMASHISH PRASAD

प्रतिवेदन

योजना का नाम - " NH80 near Champanala to Raghapur " पथ में बाढ़ से क्षतिग्रस्त
भाग का मोटरबुल कार्य।

पथ की लम्बाई - 3.900 कि०मी०

प्राक्कलित राशि - रू० 4.59268 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/गड्ढे हो जाने के कारण विभाग द्वारा समय-समय पर प्राप्त दिशा निर्देशों /आदेशों के आलोक में तत्काल युद्धस्तर पर इन पथों को Brick-Bats/ Sand Bag, Bamboo Piling एवं GSB के द्वारा मोटरबुल कार्य कराया गया है। मोटरबुल कार्य के बाद सभी पथों में आवागमन चालू हो चुका है।

कराये गये कार्य का प्राक्कलन ग्रामीण कार्य विभाग, कार्य अंचल भागलपुर के पत्रांक दिनांक 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


कार्यपालक अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल भागलपुर

GENERAL ABSTRACT OF COST

Name of Road : NH80 to Bhuwalpur

District : BHAGALPUR

Length of Road : 1.570 Km

Block : NATHNAGAR

Sl. No	Particulars		Details	Total Cost (in Rs.)
A	Cost of Road Motorable work	:	1.57	1932.36 1,93,228.00
B	GST @12%	:		23188 23,167.36
C	Labour Cess @ 1%	:		1932 1,952.28
D	Seigniorage Fee @10%	:		10274 10,273.69
	Total Cost of Restoration work	:		228638 2,28,621.35
			Say Rs.	2,28,621.00

2,28,600.00

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Technically sanctioned at Rs 2,28,600.00 (Rupees two lakhs twenty eight thousand six hundred only).

Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: NH80 to Bhuwalpur

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"					84.38			
							84.38	cum	1750.04	147668.00
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"					19.50			
							19.50	cum	2336.82	45568.00
								Total Cost =		193236.00

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NH80 to Bhuwalpur

Brick Bat

Annexure- A

Chainage	No.	Length (in m)	Width (in m)	Depth (in m)	Qty (in Cum)	Remarks
	1 x	25.00	x 3.75	x 0.50	= 46.88	Pot Patch
	1 x	20.00	x 3.75	x 0.50	= 37.50	Pot Patch
				Total	= 84.38	Cum

GSB

Annexure- B

1 x	25.00	x 3.75	x 0.10	= 9.38	Pot Patch
1 x	27.00	x 3.75	x 0.10	= 10.13	Pot Patch
			Total	= 19.50	cum

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Carriage Cost of Material via Road

RWD, works Division, Bhagalpur

Name of Road : NH80 to Bhuwalpur

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	631.38
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	Clay Rubbish	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% & L.C 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
	ii) 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 dumping ,turning for return trip exluding time for haulage and return trip				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour				
	Mazdoor (Unskilled)	day	2.170	292.00	633.64
b)	Materials				
	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

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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	9.40	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
e)	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				2336.82

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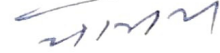
Material Statement and S.F Calculation

REO Road Haridaspur to Didarpur

SL. No.	Description of Work	material Details	unit	Per Unit Qty	Consumed 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		
		Rate per Cum -(A/2.832)			84.38		1051.00	88678.13	8867.81
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)			19.50		720.96	14058.73	1405.87
								Total Rs.	10273.69


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Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : NH80 to Bhuwalpur

Length (Km) : 1.570



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Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : NH80 to Bhuwalpur

Length (Km) : 1.570



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Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : NH80 to Bhuwalpur

Length (Km) : 1.570



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