



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. Motorable Work

DISTRICT :	BHAGALPUR	BLOCK :	NATHNAGAR	
NAME OF ROAD :	NH80 near Champanala to Raghopur			
Total Length of road	:	3.900 Km		
Total cost of Motorable work	:	3.96	Lacs	
GST @12%	:	0.47	Lacs	
Labour Cess @ 1%	:	0.04	Lacs	
Seigniorage Fee @10%	:	0.12	Lacs	
Total Cost	:	4.59	Lacs	

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SUBMITTED BY
The Executive Engineer
RWD, Works Division, Bhagalpur

प्रतिवेदन

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

पथ की लम्बाई – 3.900 कि०मी०

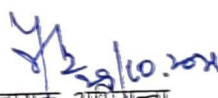
प्राक्कलित राशि – रू० 4.59268 लाख

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 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 _____ 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 near Champanala to Raghapur

District : BHAGALPUR

Length of Road : 3.900 Km

Block : NATHNAGAR

Sl. No	Particulars		Details	Total Cost (in Rs.)
A	Cost of Road Motorable work	:	3.90	395624 3,95,630.00
B	GST @12%	:		47475 4,74,75.00
C	Labour Cess @ 1%	:		3956 3,956.30
D	Seigniorage Fee @10%	:		12206 12,206.04
	Total Cost of Restoration work	:		459261 4,59,267.94
			Say	4,59,268.000

4,59,300 = 20

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29/10/21

A. E.
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E. E.
29/10/21

Technically Sanctioned for Rs 4,59,300 (Rupees four lac fifty nine thousand three hundred) only.

Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
29/10/21

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: NH80 near Champanala to Raghapur

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	Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading li 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"					169.30			
							169.30	cum	2336.82	3,95,630.00
Total Cost of Flood Protective work =										3,95,630.00

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E. E. 29/10/21

NH80 near Champanala to Raghapur

GSB Grading II

Annexure- B

Chainage	No.	Length (in m)	Width (in m)	Depth (in m)	Qty (in Cum)	Remarks
Between 0 to 2.00 Km	1 x	95.00	x 3.00	x 0.15	= 42.75	Pot Patch
	1 x	6.00	x 3.75	x 0.15	= 3.38	Pot Patch
	1 x	25.00	x 2.80	x 0.10	= 7.00	Pot Patch
	1 x	2.00	x 2.00	x 0.15	= 0.60	Pot Patch
	1 x	7.00	x 3.75	x 0.15	= 3.94	Pot Patch
	1 x	15.00	x 3.00	x 0.15	= 6.75	Pot Patch
	1 x	5.00	x 2.00	x 0.15	= 1.50	Pot Patch
	1 x	30.00	x 2.00	x 0.15	= 9.00	Pot Patch
	1 x	30.00	x 2.00	x 0.15	= 9.00	Pot Patch
	7 x	1.50	x 2.00	x 0.15	= 3.15	Pot Patch
	1 x	11.00	x 3.00	x 0.15	= 4.95	Pot Patch
	3 x	1.00	x 1.00	x 0.15	= 0.45	Pot Patch
	1 x	12.00	x 2.80	x 0.15	= 5.04	Pot Patch
	1 x	90.00	x 2.50	x 0.15	= 33.75	Pot Patch
	2 x	15.00	x 2.50	x 0.10	= 7.50	Pot Patch
	1 x	10.00	x 2.75	x 0.10	= 2.75	Pot Patch
	1 x	5.00	x 2.00	x 0.10	= 1.00	Pot Patch
	1 x	20.00	x 3.00	x 0.10	= 6.00	Pot Patch
	10 x	1.00	x 1.00	x 0.10	= 1.00	Pot Patch
	3 x	5.00	x 2.00	x 0.15	= 4.50	Pot Patch
	2 x	10.00	x 3.00	x 0.15	= 9.00	Pot Patch
	2 x	7.00	x 3.00	x 0.15	= 6.30	Pot Patch
	Total				= 169.30 cum	

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Carriage Cost of Material via Road

RWD, works Division, Bhagalpur

Name of Road : NH80 near Champanala to Raghapur

Block : NATHNAGAR

1	Stone Metal Gr-II/Via Road	Cum	Mirza Cheuki	8.00 4.59	8.00 x 7.47 x 03 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	8.00 x 7.47 x 03 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 / Chlips Via Road	Cum	Mirza Cheuki	8.00 4.99	8.00 x 7.47 x 03 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	8.00 x 7.47 x 03 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	8.00 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	8.00 x 7.47 x 03 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	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	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	8.00 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	8.00 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	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	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	8.00 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	8.00 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	8.00 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	Kursel	8.00 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	631.38	0.00	631.38	631.38
17	Brick bats	Cum	Local	8.00 2.00	8.00 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 Rubbish	Cum	Local	8.00 2.00	8.00 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.V.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
	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	475.14	105.10	244.69	1875.93	243.87	2119.80
4	Local Sand	Cum	141.85	157.80	14.19	47.08	360.91	46.92	407.83
5	Kuln Rubbish	Cum	1648	386.40	164.80	329.88	2529.08	328.78	2857.86
6	Humre Pipe (NP3) 600mm Dia	Meter	1582.72	194.99	0.00	266.66	2044.37	265.77	2310.13
7	Humre 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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SL. No	Name Of District	Name of Work Division	Road Name	Head/ Scheme	Road Status (Complete/ Ongoing)	Whether Is In Maintenance Period(Y/N)	Length Of The Road (KM)	Length Of Damaged Part Due To Flood	Amount Of Restoration	Remarks
1	2	3	4	5	6	7	8	9	10	11
1	Bhagalpur	Bhagalpur	NH-80 To Bhuwalpur	FDR	Complete	No	1.57	300M	2.29 Lacs	
2			REO Road Unridaspur To Didarpur		Complete	Yes	4	300M	1.5 Lacs	
3			REO Road To Raghopur		Complete	No	5.166	143M	6.3 Lacs	
4			L036 To Ganga Prasad		Complete	No	4.71	57M	2.12 Lacs	
5			RWD Road Makandpur More To Bhauri Rasulpur		Complete	No	1.909	30M	1.90 Lacs	
6			NH-80 Near Champannala To Raghopur		Ongoing	Yes	3.9	403.5M	4.59 Lacs	

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RWD (Works) Division
Bhagalpur
Sub Division Nathnagar

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RWD (Works) Division
Bhagalpur
Sub Division Nathnagar

Executive Engineer
RWD (Works) Division
Bhagalpur

Inspection Report For Flood Damage Work

Date:- 5/12/2021

Name of PIUs - Executive Engineer R.W.D Bhagalpur
Name of Block/ Road Nalkhijapur/ NH80 - near Champoonallah
Raghopur

A. For Road

1. Damage Location/Chainage 0 to 2 km
2. Damage length 0 to 2 km
3. Nature of Damage - Grade 3 & 13T
4. Detail of Restoration Works

- (i) Material being used in Restoration Works: GSB
- (ii) Equipment's/ Tools Being used in Restoration Works: Roller, tractor & Mammally main Power.
- (iii) Procedure Taken up in Restoration Works: Mammally main Power.
- (iv) Restored Length: 403.50 m.

B. 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:

NZ

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.

(Motorable work found Satisfactory)

Signature of JE/AE/EE

Signature

(Name of Inspector)

AMBSIONA PRPSM