

27/10/22

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

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

Mobile No. 8986915214

पत्रांक १२३/संग्रह/भागलपुर

दिनांक 27-12-2021

प्रेषक,

अधीक्षण अभियन्ता,
ग्रामीण कार्य विभाग
कार्य अंचल, भागलपुर।

सेवा में,

नोडल पदाधिकारी,

FDR

ग्रामीण कार्य विभाग,
बिहार, पटना।

बाढ़ / अतिवृष्टि से क्षतिग्रस्त पथों की आपातकालीन मरम्मति कार्य (मोटररेबुल) के प्रावक्कलन 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

प्रसंग :-

महाशय,

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

प्रखण्ड	पथ का नाम	M/s Actual	पथ की लम्बाई (किमी०मे)	तकनीकी स्वीकृति की राशि (लाख मे)
1. Nathnagar	NH-80 To Bhuwalpur	114	1.570	2.286
2. Nathnagar	REO Road Haridaspur To Didarpur	113	4.000	1.499
3. Nathnagar	REO Road To Raghpur	112	5.166	6.133
4. Nathnagar	L036 To Ganga Prasad	111	4.710	2.125
5. Nathnagar	RWD Road Makandpur More /to Bharat Rasalpur	115	1.909	1.904
6. Nathnagar	NH-80 Near Champanala To Raghpur	116	3.900	4.593

अनु०-यथोक्त

विश्वासभाजन

अधीक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, भागलपुर
भा०१४८८



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 :	REO ROAD to RAGHOPUR		
Total Length of road	:	5.166 Km	
Total cost of Motorable work	:	5.17	Lacs
GST @12%	:	0.62	Lacs
Labour Cess @ 1%	:	0.05	Lacs
Seigniorage Fee @10%	:	0.30	Lacs
Total cost	:	6.13	Lacs

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 13 Bhopalpur
Nathnagar / R.E.O. Road to Raigarhpur

A. For Road

1. Damage Location/Chainage - 1 Km & 3rd Km

2. Damage length 143.00 m

3. Nature of Damage Batches, B Grade-3 & BT

4. Detail of Restoration Works

(i) Material being used in Restoration Works: bricks, bit, Hume pipe
(ii) Equipment's/ Tools Being used in Restoration Works: JCV, tractor, man
(iii) Procedure Taken up in Restoration Works: Manually power
(iv) Restored Length: 143.00 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:

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

W/M
5/12/21
Signature
(Name of Inspector)
Rakesh Singh (P.P.M.S.A)

प्रतिवेदन

योजना का नाम – "REO ROAD to RAGHOPUR" पथ में बाढ़ से क्षतिग्रस्त भाग का मोटरेबुल कार्य।

पथ की लम्बाई – 5.166 किमी।

प्राक्कलित राशि – रु० 6.13263 लाख

वर्ष 2021 में गंगा नदी में आयी भयंकर बाढ़ से ग्रामीण कार्य विभाग, कार्य प्रमण्डल, कहलगाँव अन्तर्गत पीरपेंती/कहलगाँव/सबौर एवं सन्हीला प्रखण्ड के लगभग 89 पथ /पुल बाढ़ से प्रभावित हुये हैं। इनमें कुछ पथों में कटाव/गड़दे 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 GSP 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 : REO ROAD to RAGHOPUR

District : BHAGALPUR

Length of Road : 5.166 Km

Block : NATHNAGAR

Sl. No	Particulars	Details	Total Cost (in Rs.)
A	Cost of Road Motorable work	: 5.17	5,16,584.00
B	GST @12%	:	61,960.08
C	Labour Cess @ 1%	:	5,165.84
D	Seigniorage Fee @10%	:	29,523.58
	Total Cost of Restoration work	:	6,13,263.48
		TOTAL COST	6,13,263.48

J. E.

A. E.

E. 8

Technically Sanctioned for Rs 6,13,200/- (Rupees Six lacs thirteen thousand three hundred only).

Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur

ESTIMATE FOR REINFORCED CONCRETE WORKS

S. No.	SOP Number	Description	Basis of Estimate		Standard Description		Length (m)	Width (m)	Area (m ²)	Rate	Amount (in Rs.)
			As Per	Length (m)	Width (m)	Depth (m)					
1	4.5	Providing floor slab including spreading beams, plain beams and supporting wall 5' high for rooms no. 10, 11 and 12 including cost of light weight tongue and groove, plaster, paint, supplies etc. all complete job as per specification and drawing of 12' x 12' x 12' including carriage and delivery.									
		As per drawing "Floor slab 1"					200.00				
							200.00	1.00	200.00	45/- per m ²	900.00
2	4.6	Providing and laying Reinforced Cement Concrete Pipe 800 mm per drawing in drawing plan. Providing and laying Reinforced cement concrete pipe 800 mm for columns or for base bedding of greater thickness in single row including fixing collar and vent pipe 12' x 12' x 12' x 12' including foundation, protection, mortar, bedding, concrete and necessary works in base work and drawing "Column 12".									
		As per drawing "Reinforced Pipe"	2	2.00			7.00				
							7.00	100/- per m ²	70.00		
										Total Drawn =	900.00

✓/11/2021
EE

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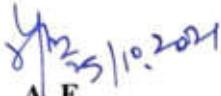
REO ROAD to RAGHOPURAnnexure-ABrick Bat

Chainage	No.	Length (in m)	Width (in m)		Depth (in m)	Qty (in Cum)	Remarks
	1 x	20.00	x	3.75	x	0.40	= 30.00
	1 x	8.00	x	5.00	+ 3.75	x 1.00	= 35.00
					2.0		
	1 x	7.00	x	3.75	x	0.40	= 10.50
	1 x	5.00	x	3.00	x	0.30	= 4.50
	1 x	75.00	x	3.75	x	0.40	= 112.50
	1 x	5.00	x	3.75	x	0.30	= 5.63
	1 x	15.00	x	3.75	x	0.30	= 16.88
	3 x	2.00	x	2.00	x	0.30	= 3.60
	1 x	60.00	x	3.75	x	0.30	= 67.50
					Total	= 286.10	Cum
<u>Less</u>	1 x	3.14 x		<u>(1.150)²</u>	x	5.00 =	5.19 Cum
				2.0		Total	= 280.91 Cum

J. E.



A. E.



E. E.

Carriage Cost of Material via Road.

RWD, works Division, Bhagalpur

Name of Road : RWD ROAD to RAGHOUR

Block : NATIONNAGAR											
1	Stone Metal Gr-ll/Via Road	Cum	Mirra Checki	8.00	x 7.47	x 83 Km	= Rs 1080.63	8.00	x 18.09	x 0 Km	= Rs 0.00
2	Stone Metal Gr-lll / GSS Via Road	Cum	Mirra Checki	4.50				4.50			183.62
3	Stone Aggregate / Chips Via Road	Cum	Mirra Checki	8.00	x 7.47	x 83 Km	= Rs 994.00	8.00	x 18.09	x 0 Km	= Rs 0.00
4	Stone Blocker /Via Road	Cum	Mirra Checki	4.50	x 7.47	x 83 Km	= Rs 1033.85	8.00	x 18.09	x 0 Km	= Rs 0.00
5	Coarse Sand/Via Road	Cum	Hauzara	8.00	x 7.47	x 36 Km	= Rs 431.13	8.00	x 18.09	x 0 Km	= Rs 0.00
	Mudman/Via Road	Cum	Mirra Checki	8.00	x 7.47	x 83 Km	= Rs 826.68	8.00	x 18.09	x 0 Km	= Rs 0.00
	Bitumen Barmac/Via Road	MT	Bansuri	8.00	x 7.47	x 125 Km	= Rs 933.75	8.00	x 18.09	x 0 Km	= Rs 0.00
	Bitumen Emulsion/Via Road	MT	Fatoba	8.00	x 7.47	x 212 Km	= Rs 1583.64	8.00	x 18.09	x 0 Km	= Rs 0.00
9	Local Sand	Cum	Local	4.50	x 7.47	x 2 Km	= Rs 23.85	8.00	x 18.09	x 1 Km	= Rs 24.00
10	Brick	1000 Nos	Local	8.00	x 7.47	x 7 Km	= Rs 208.16	8.00	x 18.09	x 1 Km	= Rs 22.36
11	Cement	MT	Local	8.00	x 7.47	x 7 Km	= Rs 532.29	8.00	x 18.09	x 0 Km	= Rs 0.00
12	Steel	MT	Local	8.00	x 7.47	x 7 Km	= Rs 52.29	8.00	x 18.09	x 0 Km	= Rs 0.00
13	Home Pipe (1000 mm)	M	Goshma	10.00	x 7.47	x 68 Km	= Rs 4063.37	10.00	x 18.09	x 0 Km	= Rs 0.00
14	Home Pipe (600 mm)	M	Goshma	8.00	x 7.47	x 68 Km	= Rs 162.55	8.00	x 18.09	x 0 Km	= Rs 0.00
15	Home Pipe (300 mm)	M	Goshma	8.00	x 7.47	x 68 Km	= Rs 67.73	8.00	x 18.02	x 0 Km	= Rs 0.00
16	Bamboo	Nm	Kurwala	8.00	x 7.47	x 42 Km	= Rs 313.74	8.00	x 18.02	x 0 Km	= Rs 0.00
17	Brick bats	Cum	Local	8.00	x 7.47	x 7 Km	= Rs 204.16	2.00	x 18.09	x 1 Km	= Rs 72.36
18	Kits & Rubbish	Cum	Local	8.00	x 7.47	x 7 Km	= Rs 204.16	8.00	x 18.09	x 1 Km	= Rs 72.36
				2.00				2.00			104.00
											137.36
											0.00
											308.40

12/10/2021

W.M.C.

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

Sl. No.	Material	Unit	Basic Rate	I. Material		Total	GST 12% & I.T. 1%	Grand total
				Carriage	SF 10%			
1	1 empty Cement Bags	Each	2.92	0.16	0.00	3.18	0.43	4.18
2	Bamboos							
	(i) 7.5 mm Dia 6m to 8m long	Each	141.5	2.26	0.00	21.56	165.32	21.47
	(ii) 100 mm Dia 6m to 8m long	Each	151.5	2.26	0.00	21.66	176.22	22.51
3	Brickbats	Cum	1051	475.10	105.10	244.68	1875.88	241.26
4	Local Sand	Cum	141.85	157.80	14.19	47.69	360.28	44.72
5	Kiln Rubbush	Cum	1648	386.46	164.80	329.98	2529.66	323.72
6	Hume Pipe (NP3)							
	600mm Dia	Meter	1582.72	194.92	0.00	266.66	2044.37	261.77
7	Hume Pipe (NP3)							
	1000mm Dia	Meter	2744.5	482.10	0.00	483.99	3710.59	482.38
8	Boulders	Cum	355.68	1226.97	35.57	237.66	1855.62	241.23
9	Granular Sub base Material							
	Grading-II							
	(i) 26.50 mm to 9.50 mm	Cum	604.91	1274.25	60.49	281.87	2221.51	292.31
	(ii) 9.50 mm to 4.75 mm	Cum	582.8	1274.25	58.28	278.56	2193.89	285.21
	(iii) 4.50 mm below	Cum	514.58	1274.25	51.46	268.32	2168.61	274.12
10	Stone Metal Aggregates Gr-II	Cum	480.64	1274.25	48.06	263.21	2066.19	263.16
11	Stone Metal Aggregates Gr-III	Cum	511.44	1187.62	51.14	254.86	2065.16	263.16
12	Screening Material Type-B	Cum	397.73	931.56	39.77	199.39	1568.46	203.90

	Type	Unit	Basic Rate	II. LABOUR		Total	GST 12%	Grand total
				Overhead & CP 15%	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	58.96	512.06	
6	Bhasti	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	58.96	512.06	
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	254.93	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 dampening, turning for return trip excluding time for haulage and return trip				
	Unit - cum				
	Taking output = 2.832 cum				
a)	Labour				
	Maandoor (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

 29/10/21
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 29/10/21

SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row				
	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
B.	1000 MM DIA (Single Row)				
a)	Material				
	RCC NP3 pipe including collar	m	7.50	2755.50	20666.25
b)	Labour				
	Mate	day	0.09	304.00	27.36
	Mason (1st class)	day	0.25	351.00	87.75
	Mazdoor (Unskilled)	day	2.00	292.00	584.00
	Cost for 7.5m = (a+b+c)				21365.36
	A) Basic Cost per m = (a+b)/7.5	m			2848.71
	CARRIAGE COST				
	NP3 Pipe	m	7.5	482.06	3615.45
	Carriage cost of 7.5 m				3615.45
	B) Carriage cost per m	m			482.06
	Rate per m = (A+B)	m			3,330.77
	Total per m	m			3330.77

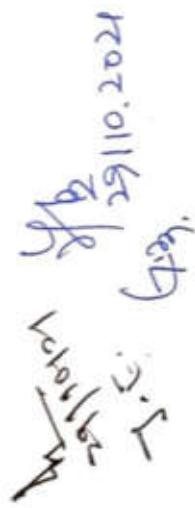
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Material Statement and S.V. Calculation

REO Road Hardaspur to Didaspur

Sl. No.	Description of Work	material Details	unit	Per Unit Qty	Consumed Qty	Rate of material	Total Rate	Total amount	10% S.V. amount
1	Brick bats	Brick bats	Cum	2.83		105.00	2976.43		
		Cost of 2.832 Cum = A					2976.43		
		Rate per Cum = (A/2.832)			286.91		1051.00	2952.15	295.21
								Total Rs.	29523.56


 4/2
 29/10/2021
 (7.37)


 29/10/2021

Name of work - 1

Location of work -

Agency by which work is executed -

Date of measurement.

No. and date of agreement

(These four lines should be repeated and the commencement of the measurement relating to each work.)

Particulars	Details of actual measurement				Contents or area
	No.	L.	B.	D.	

C.H. - 3054

N/10 - Repair of Road from
R.E.O. Road to Raghpur

Agency -

Supplier -

Date of Measurement -

① providing Bricks bates
including spreading laying
& Handpacking

$$1 \times 20.0 \times 3.75 \times 0.40 = 30.00 \text{ m}^3$$

$$1 \times 8.0 \times \frac{3.0 + 3.75}{2} \times 1.0 = 35.00 \text{ ..}$$

$$1 \times 7.0 \times 3.75 \times 0.400 = 10.50 \text{ ..}$$

$$1 \times 5.0 \times 3.00 \times 0.30 = 4.50 \text{ ..}$$

$$5 \times 15.0 \times 3.75 \times 0.40 = 112.50 \text{ ..}$$

$$1 \times 5.0 \times 3.75 \times 0.30 = 5.63 \text{ ..}$$

$$1 \times 15.0 \times 3.75 \times 0.30 = 16.88 \text{ ..}$$

$$3 \times 2.0 \times 2.0 \times 0.20 = 3.60 \text{ ..}$$

$$4 \times 30.0 \times 3.75 \times 0.30 = 67.50 \text{ ..}$$

$$286.10 \text{ m}^3$$

less (pipe) $1 \times 3.14 \times \left(\frac{1150}{2}\right)^2 \times 50 = 15.19 \text{ ..}$

Sch. XLV-Form No. 134

2

Sch. XLV-Form No. 134

(Continuation)

41. ~~as a~~ ~~new~~

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			NH-80 To Bhuwalpur		Complete	No	1.57	300M	2.29 Lacs	
2			REO Road Hiridaspur To Didampur		Complete	Yes	4	300M	1.5 Lacs	
3			REO Road To Raghpur		Complete	No	5.166	143M	6.3 Lacs	
4			L036 To Ganga Prasad	FDR	Complete	No	4.71	57M	2.12 Lacs	
5			RWD Road Makandpur More To Bharat Resalpur		Complete	No	1.909	30M	1.90 Lacs	
6			NH-80 Near Champapanala To Raghpur		Ongoing	Yes	3.9	403.5M	4.59 Lacs	

✓✓✓✓✓
Y/12-21
A.E
RWD (Works) Division
Bhagalpur
Sub Division Nathnagar

✓✓✓✓✓
J.E
RWD (Works) Division
Bhagalpur
Sub Division Nathnagar

Executive Engineer
RWD (Works) Division
Bhagalpur

Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : REO Road to RAGHOPUR Length (Km) : 5.166



✓
29/10/2021
J.C.

Y/b2
29/10/2021
6/2

Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : REO Road to RAGHOPUR Length (Km) : 5.166



27/10/21
T.C.

Ym
28/10/2021
4:30

✓/2021
11/10/21

Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : REO Road to RAGHOPUR Length (Km) : 5.166



29/10/21
11.0

29/10/21
6.3
29/10/21

29/10/21

Rural Works Department, Works Division, Bhagalpur

Photographs of Flood affected Road

Name of Road : REO Road to RAGHOPUR Length (Km) : 5.166



29/10/21
T.C.

✓/10/21