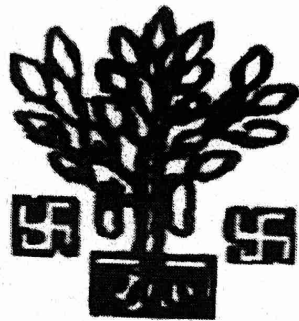


# **RURAL WORKS DEPARTMENT GOVT OF BIHAR**



Name of the Road :- BAIRGANIA TO JAMUA

BLOCK

BAIRGANIA

**FDR**

Rs. 826915.00

Year - 2019-20

NAME OF CIRCLE - R.W.D., WORKS CIRCLE, SITAMARHI

NAME OF DIVISION - R.W.D., (W) DIVISION, BELSAND

# प्रतिवेदन

पथ का नाम:- Bairgania to Jamma पथ

संलग्न प्राक्कलन 2020 के जुलाई माह में Bairgania प्रखंड  
में आई भीषण बाढ़ से क्षतिग्रस्त Bairgania to Jamma  
पथ में बाढ़ से क्षतिग्रस्त मरम्मत मद से यातायात चालू करने हेतु तैयार किया  
गया है।

जिसकी प्राक्कलित राशि Rs. 8,26,915.00 ( Eight lac twenty six  
thousand nine hundred fifteen ) है।

पथ के क्षतिग्रस्त भाग में आवश्यकता अनुसार Prick Bats, Rabbish भरकर यातायात चालू  
कामों का प्रावधान किया गया है।

प्राक्कलन वर्गमान अनुसूचित दर पर बनाया गया है।

Sagub

18.01.2021

ग्रामीण अभियंता  
ग्रामीणकार्यविभाग, बेलसंड

28/01/21

सहायक अभियंता  
ग्रामीणकार्यविभाग, बेलसंड

28/01/21

कार्यपालक अभियंता  
ग्रामीणकार्यविभाग, बेलसंड


## DETAILED ESTIMATE FOR F.D.R.

### General Abstract of Cost

Name of Road : BAIRGANIA TO JAMUA  
Length of Road : 10.5 Km  
Block : Bairgania  
DISTRICT : SITAMARHI

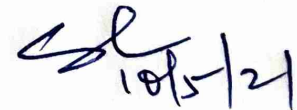
S.No.	Particulars	Total Cost (in Thousands)
1	Total Cost for Motorable Roads	731783.00
2	Labour cess @1%	7317.83
3	GST @12%	87813.96
	Total Cost of Road Repair	826914.79
	Say	826915.00

Jagdish  
18.01.2021  
JE

  
18.01.2021  
AE

  
28/1/21  
EE

Technically approved for Rs 8.269 lac (Eight lac twenty six thousand nine hundred) only

  
10/5/21

S. L.

RWD Sitamarhi

अनुमोदित, बिहार और मंत्रालय  
युनिट्स और 214 मंत्रालय  
17.02.2021 214 मंत्रालय  
09.05.2021 214 मंत्रालय



## Schedule of Quantity

Name of the Road :- BAIRGANIA TO JAMUA

Block BAIRGANIA

No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>OF ITEMS</b>					
1	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.	1582.81	Cum	401.00	634707.81
2	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.				
	80% of Brick bat Qty.	53.27	Cum	1546.00	82359.75
3	Single bamboo palasiding / walling of whole 2nd class bamboo (Jati or Bethua) 75mm dia and closely packed & driven including fitting fixing with half bamboo kamis horizontally in three rows with cane or tying with wire complete and struts 1.5 m apart longitudinally and providing brush wood as per drawing and technical specifications Clause 1302.5	28.00	m	172.62	4833.36
4	Providing Quarry Material Rabbish for filling the voids in bricks bats -----do----- all complete job as per specification and direction of E/I.				
	Taking 20% of Brick Bats Qty	13.32	Cum	742.00	9882.10

Total 731783.03

Say 731783.00

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18.01.2021

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28/1/21

EE

# Details of Measurement of ditches filled by brick bats, rabbish,Bamboo and Sand

Sr. No.	DESCRIPTION	UNIT	NOS.	LENGTH	BREATH	HEIGHT	QTY.	REMARKS
	<b>BAIRGANIA TO JAMUA</b>							
	<b>SAND</b>	m <sup>3</sup>	2	54.50	3.125	2.5	851.563	B=(1.25*2+2.5*1.5)/2
		m <sup>3</sup>	1	45.00	3.425	2.5	385.313	B=(1.55*2+2.5*1.5)/2
		m <sup>3</sup>	1	45.00	3.075	2.5	345.938	B=(1.2*2+2.5*1.5)/2
	<b>TOTAL</b>	<b>m<sup>3</sup></b>					<b>1582.813</b>	
	<b>BRICK BATS</b>	m <sup>3</sup>	2	54.50	1.65	0.21	37.769	
		m <sup>3</sup>	1	45.00	1.7	0.21	16.065	
		m <sup>3</sup>	1	45.00	1.35	0.21	12.758	
	<b>TOTAL</b>	<b>m<sup>3</sup></b>					<b>66.591</b>	
	<b>BAMBOO</b>							
	<b>At Corners</b>	m	4	7.00			28.00	
	<b>TOTAL</b>	<b>m</b>					<b>28.000</b>	

Saghib  
18.01.2021  
J.E

  
18-01-2021  
DE

- 1 1300 Single bamboo palasiding / walling of whole 2nd class bamboo (Jati or Bethua) 75mm dia and closely packed & driven including fitting fixing with half bamboo kamis horizontally in three rows with cane or tying with wire complete and struts 1.5 m apart longitudinally and providing brush wood as per drawing and technical specifications Clause 1302.5

A) Driven at least 600 mm below ground and 1200 mm above ground

Unit = Running metre

Taking Output = 3.00 metre

a) Materials

Materials					
1st Class Bamboo 65 mm to 75 mm dia, (1.2 m to 3.0 m)	nos.	9.00	15.00	135.00	
2nd Class Bamboo 65 mm to 75 mm dia, (1.2 m to 3.0 m)	nos.	1.50	20.00	30.00	
Binding Wire	kg	0.15	62.27	9.34	
Brush Wood (LS Rs.10.	LS			10.00	

b)

Labour

Mate	day	0.04	305.00	12.20	
Mazdoor (Unskilled)	day	1.00	287.00	287.00	

c)	Sundries (LS Rs.5.00)	LS		5.00	
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d)	Overhead charges 6% on (a+b+c)			29.31	
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e)	Contractor's profit @ 10% on (a+b+c+d)			0.00	
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Cost for 3 metre = a+b+c+d+e				517.85	
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Rate per metre = (a+b+c+d+e) / 3.00				172.62	
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Add Cess 1%				0.00	
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Finished Rate / m				172.62	
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Providing ,laying and spreading brick bat in ditches -----do-----do----- all complete job as per specification and direction of E/I.

Assuming =300 sqm

a)

Material

Brick bat	cum	360.00	1021.23	367642.80	
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b)

Labour for placing and spreading

Mazdoor ( skilled)	nos.	2.00	364.00	728.00	
Mazdoor ( Unskilled)	nos.	8.00	287.00	2296.00	
mate	nos.	0.40	305.00	122.00	

c)	Overhead charges 6% on (a+b)			22,247.33	
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d)	Contractor's profit @ 10% on (a+b+c)			0.00	
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Total				393,036.13	
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Rate per cum =

1,310.12

e) Conversion of Bricks Bat into Brick

Carriage

$$1.2/2.832*850/1000 = 0.360$$

Brick bat	cum	0.3602	654.91	235.88	
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Total				1546.00	
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Add Cess 1%				15.46	
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Add GST 12%				185.52	
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Finished Rate Per cum				1,746.98	
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Providing ,laying and placing empty cement bag filled with local sand including stitching with sutali etc. -----do-----do-----all complete job as per specification and direction of E/I.( Including Royalty and all Taxes)

Sagub  
18.01.2021



D M-159  
D 5.7.40.1

a)	<b>Material</b>				
	Cost of sand and empty cement bag	nos	1.00	7.46	7.46
b)	<b>Labour for carriage &amp; placing to work site</b>				
	Mazdoor ( Unskilled)	nos.	0.05	287.00	14.35
c)	<b>Overhead charges 6% on (a+b)</b>				1.31
d)	<b>Contractor's profit @ 10% on (a+b+c)</b>				0.00
	<b>Total</b>				23.12
	<b>Add Cess 1%</b>				0.00
	<b>Finished Rate</b>				23.12

# 1100 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row with old available pipe

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. ( With old available pipe)

Unit = m

Taking output = 7.5 m

(3 pipes of 2.5 m length each)

(B) 1000 mm dia

a)	<b>Labour</b>				
	Mate	day	0.09	305.00	27.45
	Mason (1st Class)	day	0.00	388.00	0.00
	Mazdoor (Unskilled)	day	2.00	287.00	574.00
b)	<b>Material</b>				
	Sand at site	cum	0.04	0.00	0.00
	Cement at site	t	0.03	0.00	0.00
	RCC pipe	m	7.50	2,744.50	20,583.75
c)	<b>Overheads @ 6% (a+b)</b>				1,271.11
d)	<b>Contractor's profit @ 10% (a+b+c)</b>				0.00
	Cost for 7.5 m = a+b+c+d				22,456.31
	Rate per m = (a+b+c+d)/7.5				2,994.17
e)	<b>Carriage</b>	m	1.00	164.52	164.52
	<b>Total</b>				3,158.69
	<b>Add Cess 1%</b>				0.00
	<b>FINISHED RATE /M</b>				3,158.69

Sand Filling in Foundation Trenches as per Drawing & Technical Specification.

a)	<b>Material</b>				
	fine sand (assuming 20% void)	Cum.	1.20	106.23	127.48
b)	<b>Labour</b>				
	Mate	day	0.01	305.00	3.05
	Mazdoor ( Unskilled)	day	0.30	287.00	86.10
c)	<b>Overhead charges 6% on (a+b)</b>				13.00
d)	<b>Contractor's profit @ 10% on (a+b+c)</b>				0.00
	<b>carriage</b>		1.20	142.81	171.38
	<b>Total</b>				401.00
	<b>Add Cess 1%</b>				0.00
	<b>Finished Rate/cum</b>				401.00

Providing Quarry Material Rabbish for filling the voids in bricks bats —do— all complete job as per specification and direction of E/I.

Sagun  
18.01.2021  
D.B

Assuming Rate per cum

a)	Material				
	Rabbish	cum	1.20	322.96	387.55
b)	Labour for placing and spreading				
	Mazdoor ( Unskilled)	nos.	0.30	287.00	86.10
	mate	nos.	0.01	305.00	3.05
c)	Overhead charges 6% on (a+b)				28.60
d)	Contractor's profit @ 10% on (a+b+c)				0.00
				Total	505.30
e)	Carriage				
	Rabbish	cum	1.20	197.24	236.69
	Total				742.00

Sagunb  
18.01.2021  
JRE



कार्यपालक अभियंता का कार्यालय  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, शिवहर

सं. 214 अमरपुर  
शिवहर

दिनांक- 12/02/2021

उपस्थित-

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल शिवहर।

सूचना में,

अधीक्षक अभियंता  
ग्रामीण कार्य विभाग  
कार्य अंचल सीतामढ़ी।

विषय:- कार्य प्रमंडल बेलसंड के अधीन वर्ष 2020 की भयंकर बाढ़ से क्षतिग्रस्त पथों में  
यातायात के पुनर्स्थापन हेतु तैयार किए गए प्रायकलन की जांच के संबंध में।

संदर्भ:- भवदीय पत्रांक-900 दिनांक-12.09.2020

सूचना में,

उपरोक्त विषय पर प्रासंगिक पत्र में दिए गए निर्देश के अनुपालन में कार्य प्रमंडल  
बेलसंड के अधीन वर्ष 2020 की भयंकर बाढ़ से क्षतिग्रस्त पथों में यातायात पुनर्स्थापन हेतु  
तैयार किए गए कार्य का स्थल निरीक्षण किया गया। इस पत्र के साथ सलग्न सूची के 52 पथों पर  
काल जीसीएसएन प्रायकलन तकनीकी अनुमोदन हेतु समर्पित किया जा रहा है।

अनु-पथों की सूची (कुल 52 पथ) सलग्न।

विभागाध्यक्ष



कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल शिवहर

कार्यपालक अभियंता का कार्यालय  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल बेलसंड

बाढ़ से क्षतिग्रस्त पथों का प्राक्कलन की सूची।

Sl No	Division	Block	Name of Road	Total Cost (In Lakh)
Sl No	Division	Block	Name of Road	Total Cost (In Lakh)
1	Belsand	Barganiya	Bairganiya To Jamua ✓	10.075
2	Belsand	Barganiya	T02 To Piprahi Sultan ✓	7.519
3	Belsand	Barganiya	Marpa Post Office To Mushari Harijan Tola ✓	0.855
			<b>Total</b>	<b>18.449</b>

  
19.9.21