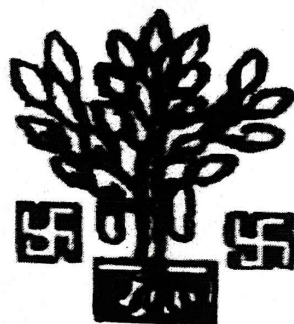


RURAL WORKS DEPARTMENT GOVT OF BIHAR



Name of the Road :-
THUMMA TO BELAHI
BLOCK : RUNNISAIDPUR

FDR

Rs. 1139920.00

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:- Thumma to Belahi पथ

संलग्न प्रावकलन 2020 के जुलाई माह में Runnibaidpur प्रखंड
में आई भीषण बाढ़ से क्षतिग्रस्त Thumma to Belahi
पथ में बाढ़ से क्षतिग्रस्त मरम्माति मद से यातायात चालू करने हेतु तैयार किया
गया है।

जिसकी प्रावकलित राशि Rs. 11,39,920.00 (Eleven lac thirty nine
thousand nine hundred twenty) है।

पथ के क्षतिग्रस्त भाग में आवश्यकता अनुसार Brick Bats, Rabbish भरकर यातायात चालू
कने का प्रबंधन किया गया है।

प्रावकलन वर्गमान अनुसूचित दर पर बनाया गया है।

Sagub
18.01.2021

मुख्य अभियंता
ग्रामीणकार्यविभाग, बेलसंड

18.01.2021

सहायक अभियंता
ग्रामीणकार्यविभाग, बेलसंड

18.01.21

कार्यपालक अभियंता
ग्रामीणकार्यविभाग, बेलसंड

DETAILED ESTIMATE FOR F.D.R.

General Abstract of Cost

Name of Road : THUMMA TO BELAHI

Length of Road : 3.50 Km

Block : Runnisaidpur

DISTRICT : SITAMARHI

S.No.	Particulars	Total Cost (in Thousands)
1	Total Cost for Motorable Roads	1008779.00
2	Labour cess @1%	10087.79
3	GST @12%	121053.48
	Total Cost of Road Repair	1139920.27
	Say	1139920.00

Sagunib

18.01.2021

JE

18.01.2021

AE

28/1/21

EE

Technically approved for B 11.399 lac (B eleven lac
thirty nine thousand nine hundred 9 only)

17/5/21

21.02.2021
17.02.2021
09.05.2021
21.02.2021

Schedule of Quantity

TO BELAHI

Block Runnisaidpur

S.No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
OF ITEMS					
1	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.	0.00	Cum	401.00	0.00
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.	582.60	Cum	1546.00	900705.78
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	0.00	m	172.62	0.00
4	Providing ,laying and placing empty cement bag filled with local sand including stiching with sutali etc. ----- do ----- do-----all complete job as per specification and direction of E/I.(Including Royalty and all Taxes)	0.00	no.	23.12	0.00
5	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row with old available pipe	0.00	m	3158.69	0.00
6	Providing Quarry Material Rabbish for filling the voids in bricks bats -----do----- all complete job as per specification and direction of E/I.				
	Taking 28% of Brick Bats Qty	145.65	Cum	742.00	108073.04

Total **1008778.83**

Say **1008779.00**

Sagub
18.01.2021

JE

Sagub
18.01.2021

AE

Sagub
28/1/21

EE

Details of Measurement of ditches filled by brick bats and rabbish

Sr. No.	DESCRIPTION	UNIT	NOS.	LENGTH	BREATH	HEIGHT	QTY.	REMARKS
	THUMMA TO BELAHI							
	1st Km	m ³	1	4.00	2.93	0.45	5.274	
	2nd Km	m ³	1	4.00	3.5	0.95	13.300	
		m ³	1	12.40	6.3	1.7	132.804	B=(4.6*2+1.7*2)/2
		m ³	1	7.70	4.00	0.44	13.552	
		m ³	1	5.60	3.5	1.55	30.380	
		m ³	1	16.00	3.8	1.2	72.960	
		m ³	1	30.00	5.9	1.3	230.100	B=(4.5*2+1.3*2)/2
		m ³	1	13.00	5.65	1.4	102.830	B=(4.15*2+1.4*2)/2
		m ³	1	3.70	3.65	1.5	20.258	
	3rd Km	m ³	1	5.00	3.5	0.65	11.375	
		m ³	1	9.30	5.25	1.8	87.885	B=(3.45*2+1.8*2)/2
		m ³	1	5	3.35	0.45	7.538	
	Total	m³					728.255	

Sagub
18.01.2021
J.E

[Signature]
18.01.2021
P.E

- 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
Sundries (LS Rs.5.00)	LS			5.00

c)

Overhead charges 6% on (a+b+c) 29.31

d)

e)

Contractor's profit @ 10% on (a+b+c+d) 0.00

Cost for 3 metre = a+b+c+d+e 517.85

Rate per metre = (a+b+c+d+e) / 3.00 172.62

Add Cess 1% 0.00

Finished Rate / m 172.62

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

d)

Contractor's profit @ 10% on (a+b+c) 0.00

Total

393,036.13

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

Add Cess 1%

15.46

Add GST 12%

185.52

Finished Rate Per cum

1,746.98

Providing ,laying and placing empty cement bag filled with local sand including stitching with sutall etc. -----do-----do-----all complete job as per specification and direction of E/I.(Including Royalty and all Taxes)

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18.01.2021

J.E

.D M-159
D 5.7.40.1

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

4 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)	Labour				
	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)	Material				
	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)	Overheads @ 6% (a+b)				1,271.11
d)	Contractor's profit @ 10% (a+b+c)				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) Carriage		m	1.00	164.52	164.52
	Total				3,158.69
	Add Cess 1%				0.00
	FINISHED RATE /M				3,158.69

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

1-159
7.40.1

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

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18.01.2021
J.E

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

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18.01.2021
J.E

कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग
कार्य प्रमंडल, शिवहर

क्रमांक- 214 अगस्त / शिवहर

दिनांक- 17/02/2021

उपक-

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल शिवहर।

सेवा में,

अधीक्षक अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल सीतामढ़ी।

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

संदर्भ- भवदीय प्रमांक-900 दिनांक-12.09.2020

सर्वप्रथम,

उपयुक्त विषयक प्रारम्भिक 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
किए गए कार्यों का स्थल निरीक्षण किया गया। इस पत्र के साथ सलग्न सूची के पथों का
स्थल जाँचोपसन्त प्रावकलन 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)
1	Belsand	Runnisaidpur	Thumma To Belahi ✓	12.26
2	Belsand	Runnisaidpur	Athari To Runni Via Kharka ✓	14.91
3	Belsand	Runnisaidpur	Prem Nagar To Hanuman Nagar ✓	4.72
4	Belsand	Runnisaidpur	NH-Gadha To Ptel Nagar ✓	10.13
5	Belsand	Runnisaidpur	Bagari To Thumma ✓	20.41
6	Belsand	Runnisaidpur	NH-77 Gadha To Dhanushi ✓	6.34
7	Belsand	Runnisaidpur	Thumma To Khopi ✓	6.21
8	Belsand	Runnisaidpur	Mahisar To Dilawarpur ✓	2.88
9	Belsand	Runnisaidpur	Thumma To Athari ✓	36.22
10	Belsand	Runnisaidpur	Balua To Bhulwariya ✓	3.24
11	Belsand	Runnisaidpur	Maharani Sthan To Bagmati Bandh ✓	11.59
12	Belsand	Runnisaidpur	Husainpur To Balan Tola ✓	0.84
13	Belsand	Runnisaidpur	Khanua Ghat To Morang ✓	3.52
14	Belsand	Runnisaidpur	Gidha To Phulwariya ✓	3.01
15	Belsand	Runnisaidpur	Vinod Paswan House To Dhobahiya Tola ✓	1.23
16	Belsand	Runnisaidpur	Ratan Jha To Bahram Nagar ✓	13.23
17	Belsand	Runnisaidpur	Runni To Raksiya Path ✓	1.12
18	Belsand	Runnisaidpur	Janar To Ramnagar ✓	6.99
			Total	158.85

(Signature)
12-9-21