

# RURAL WORKS DEPARTMENT



## Government of Bihar

Under FDR HEAD

Rural Works Department ----- Rural Works Division Belsand

Rural Works Department ----- Rural Works sub Division Belsand

Name of Work----- Detail Estimate For Restoration of Belsand To  
Rupouli Road

Estimated Cost----- Rs 743456.00

# प्रतिवेदन

पथ का नाम:-..... पथ  
संलग्न प्राक्कलन 2020 के जुलाई माह में बेलसंड प्रखंड में आई  
भीषण बाढ़ से क्षतिग्रस्त बेलसंड से रुपौली  
..... पथ में बाढ़ से क्षतिग्रस्त मरम्मत मद से यातायात चालू  
करने हेतु तैयार किया गया है,  
जिसकी प्राक्कलित राशि Rs. 7.434 लाख ( ..... )  
..... है।

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

प्राक्कलन वर्तमान अनुसूचित दर पर बनाया गया है।

*Skeema*  
21/01/21

उपस्थित अभियंता  
ग्रामीण कार्य विभाग, बेलसंड

सहायक अभियंता  
ग्रामीण कार्य विभाग, बेलसंड

*21/01/21*

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग, बेलसंड

# Detail Estimate For Restoration of Belsand To Rupouli Road

Total Length 2.10 KM

| Name Of work                                                                                                                                                                                                                                                                                                           | NO  | Length<br>in M | Breadth<br>in M | Depth<br>in M | Quantity | Unit | Rate    | Amount in RS |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|-----------------|---------------|----------|------|---------|--------------|
| providing bricks bats including spreading<br>laying and packing and compacting with C.I<br>hammer in layers not exceeding 75 mm<br>tick including cost of light barrier,danger<br>signals,chowkidar tax royalty etc all<br>omplete job as per specification and<br>rection of E/I including carriage cost of<br>bricks |     |                |                 |               |          |      |         |              |
| 4-00 mTo 2100 m                                                                                                                                                                                                                                                                                                        | 1 x | 4.50           | 2.50 x          | 0.45 =        | 5.06     | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 4.00 x         | 1.50 x          | 0.40 =        | 2.40     | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 5.00 x         | 2.50 x          | 0.30 =        | 3.75     | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 4.00 x         | 1.00 x          | 0.15 =        | 0.60     | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 23.50 x        | 4.00 x          | 1.00 =        | 94.00    | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 21.50 x        | 4.00 x          | 1.15 =        | 98.90    | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 9.00 x         | 4.00 x          | 0.30 =        | 10.80    | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 18.00 x        | 5.00 x          | 1.05 =        | 94.50    | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 5.00 x         | 4.00 x          | 0.30 =        | 6.00     | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 25.00 x        | 4.50 x          | 1.00 =        | 112.50   | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 10.00 x        | 3.50 x          | 1.25 =        | 43.75    | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        | 1 x | 3.00 x         | 1.00 x          | 0.90 =        | 2.70     | M3   |         |              |
|                                                                                                                                                                                                                                                                                                                        |     |                | TOTAL           | =             | 474.96   | M3   |         |              |
| Bricks Bats Quntity                                                                                                                                                                                                                                                                                                    |     |                | 80% x           | 474.96 =      | 379.97   | M3   | 1747.00 | 663808.86    |

providing Rabbishs including spreading  
laying and packing and compacting with C.I  
hammer in layers not exceeding 75 mm  
tick including cost of light barrier,danger  
signals,chowkidar tax royalty etc all  
omplete job as per specification and  
rection of E/I

8% Of items no 1

20% x 474.96 = 94.99 M3 838.46 79647.26  
TOTAL Rs 743456.13  
Say Rs 743456.00

J.E  
RWD Belsand

Skeema  
21/01/21  
A.E  
RWD ,Belsand

21/1/21  
E.E  
RWD Belsand

Technically approved for Rs 7.434 Lac (Rs seven lac forty three thousand four hundred) only.

आमंत्रित करीब 214 मीटर  
17.02.2021  
09.08.2021

S.E  
RWD Sitamarh

## Analysis of Rates(FORMAT F8)

| SDB. Sl. No              | MORD Ref No | DESCRIPTION                                         | Unit | Quantity | Rate   | Amount in Rs |
|--------------------------|-------------|-----------------------------------------------------|------|----------|--------|--------------|
| OLD SOR<br>8.1.3.2.(iii) |             | Providing bricks bats including spreading laying    |      |          |        |              |
|                          |             | hand packing and compacting with C.I hammer         |      |          |        |              |
|                          |             | in layers not exceeding 75 mm thick including       |      |          |        |              |
|                          |             | cost of light barrier, danger signals, chowkidar,   |      |          |        |              |
|                          |             | taxes roylity etc all complite job as per           |      |          |        |              |
|                          |             | specificatioand direction of E/I including carriage |      |          |        |              |
|                          |             | of bricks                                           |      |          |        |              |
|                          |             | Unit =cum                                           |      |          |        |              |
|                          |             | Assuming =300 cqm                                   |      |          |        |              |
|                          | (a)         | Cost of bricks bats                                 | cum  | 360      | 1021.2 | 367642.80    |
|                          |             | Local sand                                          | cum  | 0.623    | 0      | 0.00         |
|                          |             | Loabour (unskilled)                                 | nos  | 8.00     | 287    | 2296.00      |
|                          |             | Loabour (skilled)                                   | nos  | 2.00     | 364    | 728.00       |
|                          |             | Mate                                                | nos  | 0.40     | 305    | 122.00       |
|                          |             | Over head @6% on (a)                                |      |          |        | 22247.33     |
|                          |             | C.Profit @ 10% on (a)                               |      |          |        | 0.00         |
|                          | (b)         | cost for 2.832 cum = a+b                            |      |          |        | 393036.13    |
|                          |             | Rate Per cum =(a+b)/300                             | cum  |          |        | 1310.12      |
|                          |             | CARRIGE                                             |      |          |        |              |
|                          |             | Carrige of bricks (1cum bats=300 nos bricks )       | nos  | 0.3602   | 654.91 | 235.90       |
|                          |             | Rate Per cum with carriage                          |      |          |        | 1546.02      |
|                          |             | Total cost including 1% labour cess&12% GST         | cum  |          |        | 1747.00      |

## Analysis of Rates(FORMAT F8)

| SDB. Sl. No              | MORD Ref | DESCRIPTION                                                           | Unit | Quantity | Rate   | Amount in Rs |
|--------------------------|----------|-----------------------------------------------------------------------|------|----------|--------|--------------|
| OLD SOR<br>8.1.3.2.(iii) |          | Providing Rabbish including spreading laying                          |      |          |        |              |
|                          |          | hand packing and compacting with C.I hammer                           |      |          |        |              |
|                          |          | in layers note xceeding 75 mm thick including                         |      |          |        |              |
|                          |          | cost of light barrier, danger signals, chowkidar,                     |      |          |        |              |
|                          |          | taxes roylity etc all complite job as per specification with carriage |      |          |        |              |
|                          |          | Unit =cum                                                             |      |          |        |              |
|                          |          | Assuming =1 cum                                                       |      |          |        |              |
|                          | (a)      | Cost of bricks                                                        | cum  | 2.832    | 0      | 0.00         |
|                          |          | Rabbish                                                               | cum  | 1.2      | 322.96 | 387.55       |
|                          |          | Loabour                                                               |      |          |        |              |
|                          |          | Loabour (unskilled)                                                   | nos  | 0.3      | 287    | 86.10        |
|                          |          | Mate                                                                  | nos  | 0.01     | 305    | 3.05         |
|                          |          | Over head @6% on (a)                                                  |      |          |        | 28.60        |
|                          |          | C.Profit @ 10% on (a)                                                 |      |          |        | 0.00         |
|                          | (b)      | cost for 1 cum = a+b                                                  |      |          |        | 505.30       |
|                          |          | CARRIGE                                                               |      |          |        |              |
|                          |          | Carrige of bricks (1cum bats=300 nos bricks )                         | nos  | 0        | 0      | 0.00         |
|                          |          | Rabbish                                                               | cum  | 1.2      | 0.00   | 0.00         |
|                          |          | Rate Per cum with carriage                                            |      |          |        | 505.30       |
|                          |          | Total cost including 1% labour cess&12% GST                           |      |          |        | 570.99       |

*Spk*  
1.121

*Skumar*  
21/01/21

## Carraige Analysis of Bricks

1

Loading and unloading of bricks

(a) Labour

|         |        |          |        |
|---------|--------|----------|--------|
| Mate    | 0.02 x | 284.00 = | 5.68   |
| Mazdoor | 0.50 x | 268.00 = | 134.00 |

|                     |        |          |        |
|---------------------|--------|----------|--------|
| (b) Machinery Truck | 0.66 x | 929.00 = | 613.14 |
| Total               |        |          | 752.82 |

$$\text{Rate for 1000 nos bricks} = 752.82 / 2 = 376.41 \times 1.06 = 398.99$$

Carriage of bricks 1Km kachha and 7 km pucca

|                       |     |     |         |     |        |
|-----------------------|-----|-----|---------|-----|--------|
| For 1km               | 8 / | 2 x | 16.45 x | 1 = | 65.80  |
| For 7 km              | 8 / | 2 x | 6.79 x  | 7 = | 190.12 |
| loading and unloading |     |     |         |     | 398.99 |

$$\text{Rate per thousand bricks} = 654.91$$

2

## Carraige Analysis of Rabbish

Loading and unloading of bricks

(a) Labour

|         |         |          |        |
|---------|---------|----------|--------|
| Mate    | 0.015 x | 284.00 = | 4.26   |
| Mazdoor | 0.375 x | 268.00 = | 100.50 |

|                     |         |          |        |
|---------------------|---------|----------|--------|
| (b) Machinery Truck | 0.416 x | 929.00 = | 386.46 |
| Total               |         |          | 491.22 |

$$\text{Rate for 1 m3 Rabbish} = 491.22 / 5.5 = 89.31 \times 1.06 = 94.67$$

Carriage of bricks 1Km kachha and 7 km pucca

|                       |     |        |         |     |       |
|-----------------------|-----|--------|---------|-----|-------|
| For 1km               | 8 / | 4.99 x | 16.45 x | 1 = | 26.37 |
| For 7 km              | 8 / | 4.99 x | 6.79 x  | 7 = | 76.20 |
| loading and unloading |     |        |         |     | 94.67 |

$$\text{Rate per Cube Metre Rabbish} = 197.25$$

25/11/21  
JE

Shreemati  
21/01/21  
AL

कार्यपालक अभियंता का कार्यालय  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, शिवहर

क्रमांक- 214/अनु०/शिवहर

दिनांक- 17/02/2021

उपयुक्त-

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल शिवहर।

सदर 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:- मसौदा पत्रांक-900 दिनांक-12.09.2020

प्रति शय

उपयुक्त विषयक 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  
जारी किए गए कार्यों का स्थल निरीक्षण किया गया। इस पत्र के साथ सलग्न सूची के पथों का  
स्थल जांचोपरान्त प्रावकलन तकनीकी अनुमोदन हेतु समर्पित किया जा रहा है।

अनु०-पथों की सूची (कुल 52 पथ) सलग्न।

विश्वरसभाजन



कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, शिवहर

**ग्रामीण कार्य प्रमंडल बेलसंड के अन्तर्गत वर्ष-2020 के बाद से  
क्षतिग्रस्त पथों के प्राक्कलन की सूची।**

| Sl NO | Division | Block   | Name of Road                                                                                          | Total cost in Lakh |
|-------|----------|---------|-------------------------------------------------------------------------------------------------------|--------------------|
| 1     | Belsand  | Belsand | Belsand D Ghat To Jainagar Tola Road                                                                  | 9.248              |
| 2     | Belsand  | Belsand | Pachnour To Moula nagar                                                                               | 5.969              |
| 3     | Belsand  | Belsand | Belsand Khurd To Hanuman Nagar                                                                        | 2.211              |
| 4     | Belsand  | Belsand | Daya Nagar School Bara Pool To Ganeshp                                                                | 3.949              |
| 5     | Belsand  | Belsand | Gothwara To Sirsia Road                                                                               | 11.514             |
| 6     | Belsand  | Belsand | hasaur To Dariyapur Road                                                                              | 31.689             |
| 7     | Belsand  | Belsand | Mahadeo Math To Bhorha Road                                                                           | 4.380              |
| 8     | Belsand  | Belsand | Lohasi To Bhagwati Asthan Road                                                                        | 9.190              |
| 9     | Belsand  | Belsand | Gram Sauli me Baikunth Singh Ke Ghar Se Sundarpur Ghat Tak Road                                       | 7.499              |
| 10    | Belsand  | Belsand | Marar PWD To Marar Village Road                                                                       | 13.497             |
| 11    | Belsand  | Belsand | Belsand To Rupouli Road                                                                               | 8.099              |
| 12    | Belsand  | Belsand | Pachnour To Nanaura Road                                                                              | 5.103              |
| 13    | Belsand  | Belsand | Patahi KE baidnath Mandal Hari Babu Ke Pass Sarak se Brahman Asthan Hote Huye Asharti master Road Tak | 0.327              |
|       |          |         | <b>TOTAL</b>                                                                                          | <b>112.675</b>     |

  
15.2.