

# RURAL WORKS DEPARTMENT



## Government of Bihar

### Under FDR HEAD

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

Rural Works Department ----- Rural Works sub Division Suppi

Name of Work----- Detail Estimate For Restoration of Ramchandra  
Majhi house to Sasaula kalan to Sobha Gachhi  
Path Road

Estimated Cost----- Rs 279117.00

# प्रतिवेदन

पथ का नाम:-.....पथ  
संलग्न प्राक्कलन 2020 के जुलाई माह में सुष्मी प्रखंड में आई  
भीषण बाढ़ से क्षतिग्रस्त रामचन्द्र गांकी घर से ससौला ब्ला  
के शीमा जादवी पथ में बाढ़ से क्षतिग्रस्त मरम्मति मद से यातायात चालू  
करने हेतु तैयार किया गया है,

जिसकी प्राक्कलित राशि Rs. 2.79 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

*28/1/21*

कनीय अभियंता  
ग्रामीण कार्य विभाग, बेलसंड

सहायक अभियंता  
ग्रामीण कार्य विभाग, बेलसंड

कार्यपालक अभियंता  
ग्रामीण कार्य विभाग, बेलसंड

# Detail Estimate For Restoration of Ramchandra Majhi house to Sasaula kalan to Sobha Gachhi Path Road

| Name Of work                                 | NO  | Length  | Breadth  | Depth  | Total Length |         | 1.00KM    |
|----------------------------------------------|-----|---------|----------|--------|--------------|---------|-----------|
|                                              |     | in M    | in M     | in M   | Quantity     | Unit    | Rate      |
| bricks bats including spreading              |     |         |          |        |              |         |           |
| laying and compacting with C.I               |     |         |          |        |              |         |           |
| hammer in layers not exceeding 75 mm         |     |         |          |        |              |         |           |
| thick including cost of light barrier,danger |     |         |          |        |              |         |           |
| signals, chowkidar tax royalty etc all       |     |         |          |        |              |         |           |
| complete job as per specification and        |     |         |          |        |              |         |           |
| direction of E/I including carriage cost of  |     |         |          |        |              |         |           |
| CH- 1000 m                                   | 1 x | 9.00 x  | 3.75 x   | 0.60 = | 20.25        | M3      |           |
|                                              | 1 x | 3.80 x  | 3.40 x   | 0.30 = | 3.88         | M3      |           |
|                                              | 1 x | 6.00 x  | 4.20 x   | 0.30 = | 7.56         | M3      |           |
|                                              | 1 x | 5.00 x  | 2.70 x   | 0.40 = | 5.40         | M3      |           |
|                                              | 1 x | 30.00 x | 1.00 x   | 0.50 = | 15.00        | M3      |           |
|                                              | 1 x | 21.00 x | 1.00 x   | 0.60 = | 12.60        | M3      |           |
|                                              | 1 x | 5.00 x  | 1.00 x   | 0.60 = | 3.00         | M3      |           |
|                                              | 1 x | 26.00 x | 3.70 x   | 1.15 = | 110.63       | M3      |           |
|                                              |     |         | TOTAL    | =      | 178.32       | M3      |           |
| Bricks Bats Quantity                         |     | 80% x   | 178.32 = | 142.65 | M3           | 1747.00 | 249214.92 |

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

28% Of items no. 1

20% x 178.32 = 35.66 M3 838.46 29902.11  
TOTAL Rs 279117.03  
Say Rs 279117.00

J.E  
RWD Belsand

*Sharma*  
21/01/21  
A.E  
RWD Belsand

*28/3/21*  
E.E  
RWD Belsand

Technically approved for Rs 2.791 lac (Rs two lac  
Seventy nine thousand one hundred) only.

आमंत्रित करीब 17-02-2021  
आमंत्रित करीब 09-05-2021  
आमंत्रित करीब 09-05-2021

*S.E*  
RWD Sitamashu

### Analysis of Rates(FORMAT F8)

| SI.No | SDB. SI. No              | MORD Ref No | DESCRIPTION                                                                                                                                                                                                                                                                                            | Unit | Quantity | Rate   | Amount in Rs |
|-------|--------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------|--------------|
| 1     | 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 complete job as per specification and 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)

| SI.No | SDB. SI. No              | MORD Ref | DESCRIPTION                                                                                                                                                                                                                                                    | Unit | Quantity | Rate   | Amount in Rs |
|-------|--------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------|--------------|
| 1     | 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 complete 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                                                                                                                                                                                                                    |      |          |        | 570.89       |

21.1.21  
SE

Sreemath  
21/01/21  
AZ

## Carraige Analysis of Bricks

1

### (A) 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 |

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

### (B) 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

### (A) 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 |

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

### (B) 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 |

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

*Spk*  
21.1.21  
JE

*Skumar*  
21/01/21  
AL

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 प्राथमिकता की जाँच 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  
आवृत्ति जाँचोपरान्त प्राथमिकता 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

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

| SI NO | Division | Block | Name of Road                                                  | Total cost in Lakh |
|-------|----------|-------|---------------------------------------------------------------|--------------------|
| 1     | Belsand  | Suppi | PWD Dom ke ghar se Shekh Ijahar ke Ghar Tak                   | 10.338             |
| 2     | Belsand  | Suppi | Bokatta To Chhaurahiya                                        | 2.396              |
| 3     | Belsand  | Suppi | PWD road to Kansara South Tola Road                           | 8.946              |
| 4     | Belsand  | Suppi | Chakki Tola se PWD Road Rameshwar Singh Darwaja Tak Road      | 4.560              |
| 5     | Belsand  | Suppi | Marar To Guleria Road                                         | 4.765              |
| 6     | Belsand  | Suppi | Ramchandra Majhi House To Sasaula Kalan To Shobha Gachhi Road | 3.085              |
| 7     | Belsand  | Suppi | Riga Sasaula Sheohar Path To Naya Tola Road                   | 6.756              |
|       |          |       | <b>Total</b>                                                  | <b>40.846</b>      |

*[Signature]*  
15.2.21