



# ग्रामीण कार्य विभाग

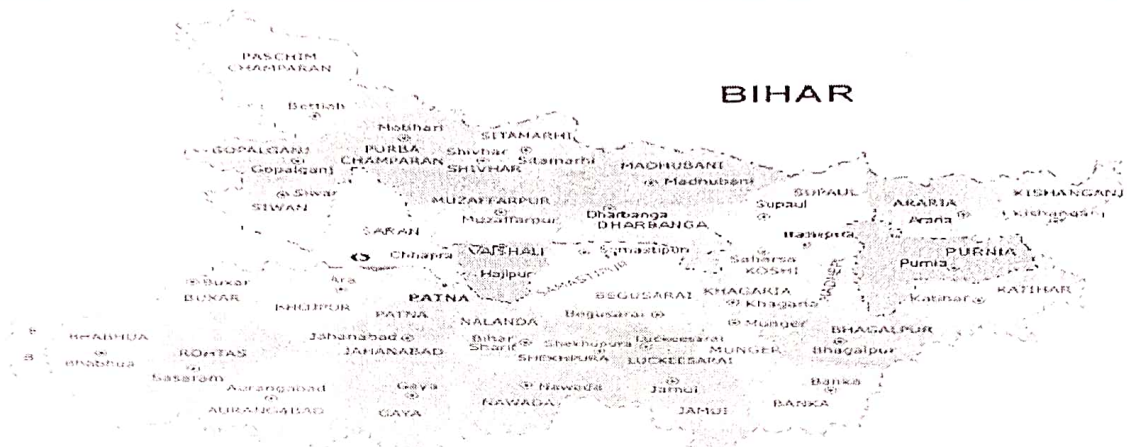
Rural Works Department, Govt of Bihar

## BIHAR RURAL ROADS PROJECT

Govt. of Bihar

### FDR(Motorable)

Estimate for Motorable of Road from Hilsa Reribans Bigha Road To Chamar Bigha in Nalanda District.



Name of the Road :-

Hilsa Reribans Bigha Road To Chamar Bigha

|                            |   |              |     |
|----------------------------|---|--------------|-----|
| DISTRICT                   | : | NALANDA      |     |
| DIVISION                   | : | HILSA        |     |
| BLOCK                      | : | HILSA        |     |
| TOTAL COST OF CONSTRUCTION | : | 7.861        | Lac |
| TOTAL COST OF PROJECT      | : | <u>7.861</u> | Lac |

SUBMITTED BY  
RURAL WORKS DEPARTMENT  
WORKS DIVISION-HILSA

6.238 Lac

Kant  
25/10/21  
J-12

27/11/21  
A-6

# INSPECTION REPORT FOR FLOOD DAMAGE WORK

1. Name of PIUS :- R.W.D HILSA (E.E)
2. Name of Block/Road :- HILSA

A. For Road : HILSA Rehibans Bigha Road To Chamas Bigha

1. Damage Location/Change :-
2. Damage Length :- 144.10 m
3. Nature of Damage :-
4. Details of Restoration Works :-

- i. Material Being used in Restoration works :- Brick bats
- ii. Equipment's / Tools being used in Restoration works :- Tractor, polly, T.C.D Polhu
- iii. Procedure taken up in restoration works :- Mechanically and manually
- iv. Restored Length :- 144.10 m

B. For Bridge :

1. Damage Location / Chainage :- H.A
2. Damage Length :-
3. Nature of Damage :-
4. Details 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/Bridge : H.A

- i. Name of Road :-
- ii. Location Chainage :-
- iii. Type of CD work/Length required :-

- 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

Ram on  
09.12.2021  
JE

AE

EE

Pratik  
09/12/21  
Executive Engineer  
Rural Works Department  
Works Division, Rajgir

The work is satisfactory.

## SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Hilsa Reribans Bigha Road To Chamar Bigha

DISTRICT NALANDA

BLOCK HILSA

DIVISION HILSA

| Sl. No. | DESCRIPTION                     | AMOUNT (LAKHS)        |
|---------|---------------------------------|-----------------------|
| 1       | BRICK BATS                      | 673823~<br>786128.000 |
|         | Total                           | 786128.000            |
|         | TOTAL COST IN LACS =            | 7.861                 |
|         | TOTAL COST OF PROJECT IN LACS = | 7.861                 |

*Ram S.*  
25/10/2011  
JE  
RWD

*P. S.*  
27/10/21  
AE  
RWD

*P.*  
27/10  
EE  
RWD

Technically approved for Rs.....  
(Rupees.....)  
Condition and direction laid down in attached  
technical notes with DPR is be followed Strictly

S. E.  
RWD  
Work Circle Nalanda

Technically Sanctioned for Rs.....6,93,800=00  
(Rupees.....Six.....Lacs.....Twenty.....Three.....  
.....Thousand.....Eight.....Hundred.....only.....  
Condition and attached  
technical notes

~~Amur~~  
24/12/2021

RWD

Work Circle Nalanda

~~22/12/2021~~

# Estimate for Motorable of Road from Hilsa Reribans Bigha Road To Chamar Bigha in Nalanda District.

Name of Road Hilsa Reribans Bigha Road To Chamar Bigha

| Sl. No. | Description                                                                                                                                                     | Unit | NOS | LENGTH | WIDTH | HEIGHT | QUANTITY                      | RATE     | AMOUNT<br>(in Rs.)                    |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--------|-------|--------|-------------------------------|----------|---------------------------------------|
|         | SUB HEAD : EARTHWORK, BRICKS BATS, SAND FILLING                                                                                                                 |      |     |        |       |        |                               |          |                                       |
| 1       | Construction of Bricks Bats<br>Supplying Brick bats with carriage at site including labour cess, GST and seigniorance fee<br>(excluding over head and CP)       | cum  |     |        |       |        | 318.805<br><del>371.940</del> | 1,201.00 | 3,82,885.50<br><del>4,46,700.00</del> |
| 2       | Carriage for Brick bats including labour cess & GST (excluding over head and CP)                                                                                | No   |     |        |       |        | 318.805<br><del>371.940</del> | 564.910  | 180,076.50<br><del>2,10,112.00</del>  |
| 3       | Supplying unskilled labour for Brick bats and laying 600 mm dia for spreading and levelling brick bats including labour cess & GST (excluding over head and CP) | No   |     |        |       |        | 337.933<br><del>394.256</del> | 328.00   | 110,842.50<br><del>1,29,316.00</del>  |
|         |                                                                                                                                                                 |      |     |        |       |        |                               |          | <del>7,36,120.00</del>                |
|         |                                                                                                                                                                 |      |     |        |       |        |                               |          | 6,75,823.50                           |

*[Signature]*  
JE  
25/10/21

*[Signature]*  
27/10/21

*[Signature]*  
27/10

RWD

AE

EE

RWD

Name of Road Hilsa Reribans Bigha Road To Chamar Bigha  
Block HILSA  
District NALANDA

### Calculation of Brick Bats

| Sl.No | Lenth (m) | Width(m) | Thickness (m) | Qty. (Cum)             |
|-------|-----------|----------|---------------|------------------------|
| 1     | 52.00 ✓   | 1.950 ✓  | 1.300 ✓       | 131.820 ✓              |
| 2     | 53.00 ✓   | 1.825 ✓  | 1.700 ✓       | 164.430 ✓              |
| 3     | 23.60 ✓   | 1.500 ✓  | 1.350 ✓       | 47.790 ✓               |
| 4     | 15.50 ✓   | 1.500 ✓  | 1.200 ✓       | 27.900 ✓               |
|       |           |          | Total         | 371.940 m <sup>3</sup> |

Ram  
25/10/2017  
J.F.

Ril  
27/10/21  
A.E.

P  
27/10  
E.E.

Ram  
09/11/21

T.E.

R.W.D.

Rajis.

quantity after deduction of voids  $371.940 \text{ m}^3 \times \frac{12}{14} = 318.808 \text{ m}^3$

Ril  
9/10/21  
A.E.

Ram  
09.12.2017  
J.F.

**Block :- HILSA**

| District:- NALANDA |                  |      |              |                            |   |       |   |         |        |           |      |   |       |   | BLOCK - THUGA |   |          |        |                          |                            |       |  |  |  |
|--------------------|------------------|------|--------------|----------------------------|---|-------|---|---------|--------|-----------|------|---|-------|---|---------------|---|----------|--------|--------------------------|----------------------------|-------|--|--|--|
| Sl No              | Item with Source | Unit | Source Up to | Carriage Cost & Lead in Km |   |       |   |         |        |           |      |   |       |   |               |   |          |        | Loading & Unloading Cost | Carriage Cost by Rail Head | Total |  |  |  |
|                    |                  |      |              | Pucka / Surface            |   |       |   |         | Katcha |           |      |   |       |   |               |   |          |        |                          |                            |       |  |  |  |
| 1                  | Brick bat        | Cum  | Local        | 3.60                       | x | 22.24 | x | 7.00 Km | =      | Rs 249.09 | 3.60 | x | 27.78 | x | 1.00 Km       | = | Rs 44.46 | 206.37 | 0.00                     | Rs. 499.92                 |       |  |  |  |
|                    |                  |      |              | 2.25                       |   |       |   |         |        | 2.25      |      |   |       |   |               |   |          |        |                          |                            |       |  |  |  |

## Carriage Including GST and Labour Cess For Brick Bats

**Rs. 564.91**

Ran C  
25-10-2021  
RWD

27/10  
EE  
RWD

| SDB Sl. No. | MOR D Ref No. | DESCRIPTION                                                                       | Unit | Quantity | Rate   | Amount (In Rs) |
|-------------|---------------|-----------------------------------------------------------------------------------|------|----------|--------|----------------|
| 1.1 RCD     |               | Loading and Unloading of brick bats with tractor                                  |      |          |        |                |
|             |               | Unit=cum                                                                          |      |          |        |                |
|             |               | Taking output= 2.25 cum                                                           |      |          |        |                |
|             |               | Time required for                                                                 |      |          |        |                |
|             |               | i) Positioning of tipper at loading point                                         |      | 1 MIN    |        |                |
|             |               | ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour           |      | 5 Min    |        |                |
|             |               | iii) Maneuvering, reversing, dumping and turning for return                       |      | 0 Min    |        |                |
|             |               | iv) Waiting time, unforeseen contingencies etc                                    |      | 6 Min    |        |                |
|             |               | Total                                                                             |      |          |        |                |
|             |               | a) Labour                                                                         |      |          |        |                |
|             |               | Mate                                                                              | day  | 0.03     | 415    | 12 450         |
|             |               | Mazoor for loading and unloading                                                  | day  | 0.72     | 328    | 236 160        |
|             |               | b) Machinery                                                                      |      |          |        |                |
|             |               | Tractor 3.60 tonne capacity                                                       | hour | 0.1      | 525    | 52 500         |
|             |               | Front end loader 1 cum bucket capacity @25 cum/hour                               | hour | 0.083    | 1650   | 136 950        |
|             |               | c) Overhead charges @ 0.06 on (a+b)                                               |      |          |        | 26 284         |
|             |               | d) contractor profit @ 0.00 on (a+b+c)                                            |      |          |        | 0 000          |
|             |               | Cost for 2.25 cum= (a+b+c+d)                                                      |      |          |        | 464 344        |
|             |               | Rate per cum= (a+b+c+d)/2.25                                                      |      |          |        | 206 375        |
|             | Note          | Unloading will be done manually                                                   |      |          |        |                |
| 1.4 RCD     |               | Cost of Haulage Excluding Loading and Unloading                                   |      |          |        |                |
|             |               | Haulage of material by Tractor excluding cost of loading, unloading and stacking. |      |          |        |                |
|             |               | Unit= t.km                                                                        |      |          |        |                |
|             |               | Taking output 3.60 tonnes load and lead 10 km= 36.0 t.km                          |      |          |        |                |
|             | i)            | Surface Road                                                                      |      |          |        |                |
|             |               | Speed with load : 15 km/hour                                                      |      |          |        |                |
|             |               | Speed while Returning empty : 25 km/ hour                                         |      |          |        |                |
|             |               | a) Machinery                                                                      |      |          |        |                |
|             |               | Tractor 3.6 tonne capacity                                                        |      |          |        |                |
|             |               | Time taken for onward haulage with load                                           | hour | 0.667    | 707.90 | 472 169        |
|             |               | Time taken for empty return trip                                                  | hour | 0.4      | 707.90 | 283 160        |
|             |               | Total                                                                             |      |          |        | 755 329        |
|             |               | b) Add overhead charges @0.06                                                     |      |          |        | 45 320         |
|             |               | c) Add contractor profit @0.0                                                     |      |          |        | 0 000          |
|             |               | cost for 36 t.km = a+b+c                                                          |      |          |        | 800 649        |
|             |               | Rate per t.km = (a+b+c)/36                                                        |      |          |        | 22 240         |
|             | ii)           | Unsurface Graveled Road/ Katcha                                                   |      |          |        |                |
|             |               | Speed with load : 12 km/ hour                                                     |      |          |        |                |
|             |               | Speed for empty return trip: 20 km/ hour                                          |      |          |        |                |
|             |               | a) Machinery                                                                      |      |          |        |                |
|             |               | Tractor 3.6 tonnes capacity                                                       |      |          |        |                |
|             |               | Time taken for onward haulage with load                                           | hour | 0.833    | 707.90 | 589 681        |
|             |               | Time taken for empty return trip                                                  | hour | 0.5      | 707.90 | 353 950        |
|             |               | Total                                                                             |      |          |        | 943 631        |
|             |               | b) Add overhead charges @0.06                                                     |      |          |        | 56 618         |
|             |               | c) Add contractor profit @0.0                                                     |      |          |        | 0 000          |
|             |               | Cost for 36 t.km = a+b+c                                                          |      |          |        | 1000 249       |
|             |               | Rate per t.km = (a+b+c)/36                                                        |      |          |        | 27 785         |