

# **RURAL WORKS DEPARTMENT**



**GOVERNMENT OF BIHAR**

**CIRCLE – R.W.D Works Circle, Chapra**

**DIVISION – R.W.D Works Division, Marhaura**

**Name of Work -** Motrable of road from PMGSY path to Dabra Chapra  
Gandak Bandh

**Block -** Amnaur

**Estimated Cost –** <sup>Rs- 824422/-</sup> **Rs 915594.00**

2020-21

## Inspection Report For Flood Damage Work

Date:

1. Name of PIU - E.E.R.W.D.(W) Marhaura.
2. Name of Block/Road - Amnour - Motorable of Road from P4954 Path to Dabara Chhapra Gondale Bank.

### A. For Road

1. Damage Location/ Chainage :- 0.050
2. Damage Length :- 0.200
3. Nature of Damage :- Cutting due to flood.
4. Details of Restoration :-

- I. Materials being used in restoration : Brick bats, Local sand,
- II. Equipment/Tools being used in restoration works : Tractor, Roller, J.C.B, Trolley etc.
- III. Procedure taken up in Restoration works : Laying 'specially' Bricks labour etc.
- IV. Restored Length : 0.886 km.

### B. For Bridge

1. Damage Location/ Chainage :-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration :-
  - I. Materials being used in restoration :
  - II. Equipment/Tools being used in restoration works :
  - III. Procedure taken up in Restoration works :
  - IV. Restored Length :

  
Signature of AE/JE/EE  
Executive Engineer  
Rural Works Department  
Works Division, Marhaura

Signature

  
(Name of Inspector)

RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Motorable of Road from PMGSY Path to Dalan Chopra Ganga Bank

पथ की लम्बाई:- 0.475 Km.

पथ के क्षतिग्रस्त भाग की लम्बाई:- 0.200 Km.

प्रखंड:- जिला :- सारण

प्रमंडल:- ग्रामीण कार्य विभाग कार्य प्रमंडल, मढ़ौरा

अंचल:- ग्रामीण कार्य विभाग कार्य अंचल, छपरा

प्राक्कलित राशि:- 915594/- 824422/-

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों के मोटरबुल कार्य हेतु कुल रुपये 915594/- लाख मात्र के लिए तैयार किया गया है। विदित है की गत जून

महीने से सितम्बर अक्टूबर महीने तक लगातार अन्तराल पर जिला क्षेत्र अंतर्गत असामयिक रूप से पथ क्रस्ट काफी क्षतिग्रस्त हो गया जिससे पथों पर आवागमन बुरी प्रभावित हो गया। ऐसी परिस्थिति में पथों पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियों से प्राप्त आदेश एवं इस संबंध में विभाग से निर्गत दिशा निर्देश के अलोक में तत्काल प्रभाव से प्रभावित पथों में कटाव/क्षतिग्रस्त भाग में अवश्यकतानुसार Brick Bats भरकर चलने लायक बनाया गया है।

इस प्रकार कटाव/क्षतिग्रस्त भाग में अवश्यकतानुसार Brick Bats इत्यादि मर्दों का प्रावधान करते हुए प्राक्कलन कुल रुपये 915594/- लाख का तैयार किया गया है जो कार्य हित में आवश्यक एवं जनपयोगी है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है, जिस पर स्वीकृति अपेक्षित है।

6/11/21

कनीय अभियंता

6.11.21

सहायक अभियंता

6/11

कार्यपालक अभियंता

## ABSTRACT OF COST

### Name of Work -

Motrabale of road from PMGSY path to Dabra Chapra Gandak Bandh

### Block -Amnaur

| S.No | Particulars            | Amount (In Rs.)       |
|------|------------------------|-----------------------|
| 1    | Cost of Motrabale Work | 915594.00 — 824,422/- |
|      | Total Cost             | 915594.00 — 824,422/- |

  
J.E.

RWD

Amnaur



A.E.

RWD

Amnaur



E.E.

RWD

Marhaura

T/S. for Rs. 8,24,422/-  
(Rupees Eight Lakhs twenty four thousand  
four hundred twenty two) only.

  
15/01/22

Superintending Engineer  
Rural (Works) Deptt.  
Works Circle, Chapra

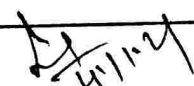
## Detailed Estimate

**e Of Road: Motrable of Road From PMGSY Path to Dabra Chapra Gandak Bandh**

| A.No. | Item                                                                                                             | No    | Length | Width | Avg.H/D                            | Qty                                    | Unit | Rate      | Amount                   |
|-------|------------------------------------------------------------------------------------------------------------------|-------|--------|-------|------------------------------------|----------------------------------------|------|-----------|--------------------------|
| 1     | Providing laying and spreading brick bats in road ditches all complete as per approved design, specification and | 1     | 105    | 1.1   | 1.1                                | 127.05                                 |      |           |                          |
|       |                                                                                                                  | 1     | 95     | 1     | <del>1.05</del><br><del>1.35</del> | <del>128.25</del><br><del>128.25</del> |      |           |                          |
|       |                                                                                                                  | 1     | 106    | 1.05  | <del>1.10</del><br><del>1.2</del>  | <del>133.56</del><br><del>133.56</del> |      |           |                          |
|       |                                                                                                                  | Total |        |       |                                    | <del>388.86</del><br>349.23            | Cum  | 2300.58   | 803432/-<br>894603.54.00 |
| 2     | Filling and spreading local sand over brick bats as per drawing and technical specification Clause 303.5.9       | 1     | 105    | 1.1   | 0.10                               | 11.55                                  |      |           |                          |
|       |                                                                                                                  | 1     | 95     | 1     | 0.10                               | 9.50                                   |      |           |                          |
|       |                                                                                                                  | 1     | 106    | 1.05  | 0.10                               | 11.13                                  |      |           |                          |
|       |                                                                                                                  | Total |        |       |                                    | 32.18                                  | Cum  | 652.27    | 20990.00                 |
| TOTAL |                                                                                                                  |       |        |       |                                    |                                        |      | 915594.00 |                          |

R- 8 244 22/-

  
RWD  
Amnaur

  
A.E  
RWD  
Amnaur

  
E.E  
RWD  
Marhaura

## Brick Bats Pitching Manual Means

| Sl. No.    | DESCRIPTION                                                                                                                                                                                             | Unit | Quantity | Rate   | Amount in Rs |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------|--------------|
|            | Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete as per approved design specification and direction of E/I. |      |          |        |              |
|            | Unit:-Per Cum                                                                                                                                                                                           |      |          |        |              |
|            | Taking Output =2.832 Cum                                                                                                                                                                                |      |          |        |              |
|            | Unskilled Mazdoor                                                                                                                                                                                       | Nos. | 3        | 304.00 | 912.00       |
|            | Add 6% Overhead Charge                                                                                                                                                                                  |      |          |        | 54.72        |
|            | Rate for 2.832 Cum                                                                                                                                                                                      |      |          |        | 966.72       |
|            | <b>Rate Per Cum(Rs.)=</b>                                                                                                                                                                               |      |          |        | 341.36       |
|            |                                                                                                                                                                                                         |      |          |        |              |
|            |                                                                                                                                                                                                         |      |          |        |              |
| <b>RCD</b> | <b>Cost of haulage Excluding Loading and Unloading</b>                                                                                                                                                  |      |          |        |              |
|            | Haulage of Materials 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                                                                                                                                                |      |          |        |              |
|            | <b>(i) Surface Road</b>                                                                                                                                                                                 |      |          |        |              |
|            | Speed With load :15 km / hour.                                                                                                                                                                          |      |          |        |              |
|            | a)Machinery.                                                                                                                                                                                            |      |          |        |              |
|            | Tractor 3.6 tonnes Capacity                                                                                                                                                                             |      |          |        |              |
|            | Time Taken For onward haulage with load                                                                                                                                                                 | hour | 0.667    | 652.00 | 434.88       |
|            | Time Taken For empty return trip                                                                                                                                                                        | hour | 0.400    | 652.00 | 260.80       |
|            | b) Overhead Charges @0.06 on (a)                                                                                                                                                                        |      |          |        | 41.74        |
|            | Cost for 36 t km=(a+b+c)/36                                                                                                                                                                             |      |          |        | 737.43       |
|            | <b>Say RS.-</b>                                                                                                                                                                                         |      |          |        | <b>20.48</b> |
|            |                                                                                                                                                                                                         |      |          |        |              |
|            | <b>ii) Unsurface Gravel Road</b>                                                                                                                                                                        |      |          |        |              |
|            | 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    | 652.00 | 543.12       |
|            | Time Taken For empty return trip 0.50                                                                                                                                                                   | hour | 0.500    | 652.00 | 326.00       |
|            | b) Overhead Charges @0.06 on (a)                                                                                                                                                                        |      |          |        | 52.15        |
|            | Cost for 36 t km=(a+b+c)/840.34                                                                                                                                                                         |      |          |        | 921.26       |
|            | Rate per t.km = (a+b+c)/3623.34                                                                                                                                                                         |      |          |        | 25.59        |
|            | <b>Say RS.-</b>                                                                                                                                                                                         |      |          |        | <b>25.59</b> |
|            |                                                                                                                                                                                                         |      |          |        |              |
|            |                                                                                                                                                                                                         |      |          |        |              |

|                |                                                                                                                                     |         |       |        |         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------|---------|
| <b>1.1 RCD</b> | <b>Loading and Unloading of Stone Boulder / Stoneaggregate / sand / kanker / Moorum</b>                                             |         |       |        |         |
|                | Placing Tractor at loading point, loading with frontloader, dumping, turnig for return trip, excluding for haulage and return trip. |         |       |        |         |
|                | Unit = cum                                                                                                                          |         |       |        |         |
|                | Taking output = 2.25 cum                                                                                                            |         |       |        |         |
|                | Time required for                                                                                                                   |         |       |        |         |
|                | i) Positioning of Tracter at loading Point                                                                                          |         | 1 Min |        |         |
|                | ii) Loading by front end loader 1cum bucket @ capacity 25 cum per hour                                                              |         | 5 Min |        |         |
|                | iii) Maneuvering, reverse, dumping and turnig for return                                                                            |         | 0 Min |        |         |
|                | iv) Wating time, unforeseen Contingencies etc.                                                                                      |         | 0 Min |        |         |
|                | Total                                                                                                                               |         | 6 Min |        |         |
|                | a) Labour                                                                                                                           |         |       |        |         |
|                | Mate                                                                                                                                | Day     | 0.03  | 316.00 | 9.48    |
|                | Mazdoor for loading and unloading                                                                                                   | Day     | 0.72  | 304.00 | 218.88  |
|                | b) Machinery                                                                                                                        |         |       |        |         |
|                | Tractor 3.60 tonnes capacity                                                                                                        | hour    | 0.10  | 652.00 | 65.20   |
|                | Front end loader 1 cum bucket capacity @ 25 cum/hour                                                                                | hour    | 0.08  | #####  | 265.68  |
|                | c) Overhead charges @ 0.06 on (a+b)                                                                                                 |         |       |        | 33.55   |
|                | Cost for 2.25 cum = a+b+c+d                                                                                                         |         |       |        | 592.80  |
|                | <b>Cost for 2.25 cum = (a+b+c+d)/2.25</b>                                                                                           |         |       |        | 263.47  |
| Note-          | Unloading will be done manually.                                                                                                    |         |       |        |         |
| 1              | Suplying for Brick Bats (With OH )                                                                                                  |         |       |        |         |
| A              | Basic Rate of Brick Bats                                                                                                            | Per Cum | ##### |        | 1006.00 |
|                | Add overhead Charges 6%                                                                                                             |         | 0.06  |        | 60.36   |
|                | Total-                                                                                                                              |         |       |        | 1066.36 |
|                | Surface Lead                                                                                                                        | km      | 7.00  |        |         |
|                | Unsurface Lead                                                                                                                      | km      | 1.00  |        |         |
|                | Factor(3.6/2.25)                                                                                                                    | cum     | 1.60  |        |         |
| B              | Carriage ( with OH )                                                                                                                |         |       |        |         |
|                | (1.6 x 7 x 20.48) + (1.6 x 1 x 25.59) + 263.47                                                                                      |         |       |        | 533.83  |
| C              | Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)                                                        |         |       |        |         |
|                | Total (A+B+C)-                                                                                                                      |         |       |        | 1941.55 |
|                | Add 1% Labour Cess (A+B+C)                                                                                                          |         |       |        | 19.42   |
|                | Add 12% GST(A+B+C)                                                                                                                  |         |       |        | 232.99  |
|                | Add 10% cost of Material for seigniorage Fee                                                                                        |         | 1.00  | 106.64 | 106.64  |
|                | <b>Total Cost per Cum</b>                                                                                                           |         | Rs:-  |        | 2300.58 |

## 11

**in Total**

Rs. 185 01

0 25/11/21

4.11.24

8.19

# Schedule XLV-Form No. 134

Motor Vehicle Work in P.H.S. & Pat. to Depts. Chaparral

Gordale Bendk.

DIVISION

Answer:

SUB-DIVISION

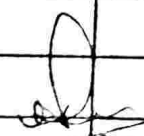
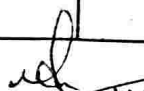
MEASUREMENT BOOK

(These four lines should be repeated at the commencement of the measurements relating to each work.)

| Particulars                             | Details of actual measurement |    |    |    | Contents of area |
|-----------------------------------------|-------------------------------|----|----|----|------------------|
|                                         | No.                           | L. | B. | D. |                  |
| First & Final Bill                      |                               |    |    |    |                  |
| Name of work - Maintenance of Road from |                               |    |    |    |                  |
| P. 1657 Path to Dubai Chapara           |                               |    |    |    |                  |
| Gondak Bareth -                         |                               |    |    |    |                  |
| Name of Agency - Sri Braikuntha Nath    |                               |    |    |    |                  |
| Mishra -                                |                               |    |    |    |                  |
| Authority - E. E. R. W. D. (W) Muzam    |                               |    |    |    |                  |
| Letter No.                      date.   |                               |    |    |    |                  |
|                                         |                               |    |    |    |                  |
|                                         |                               |    |    |    |                  |
|                                         |                               |    |    |    |                  |
|                                         |                               |    |    |    |                  |

[illegible]

| Particulars                                | Details of actual measurement |     |       |        | Contents of area |
|--------------------------------------------|-------------------------------|-----|-------|--------|------------------|
|                                            | No.                           | L.  | B.    | D.     |                  |
| <u>Item of 1st lot</u>                     |                               |     |       |        |                  |
| J. No. 1: Boundary of existing area        |                               |     |       |        |                  |
| Specimen (brick bats)                      |                               |     |       |        |                  |
| in small ditch on left                     |                               |     |       |        |                  |
| Composite table                            |                               |     |       |        |                  |
|                                            | 3x                            | 30x | 1.10x | 1.10 = | 108.90           |
|                                            | 1x                            | 15x | 1.10x | 1.10 = | 18.15            |
|                                            | 3x                            | 30x | 1.00x | 1.05 = | 94.50            |
|                                            | 1x                            | 5x  | 1.4x  | 1.05 = | 5.25             |
|                                            | 3x                            | 30x | 1.05x | 1.10 = | 103.95           |
|                                            | 1x                            | 16x | 1.05x | 1.09 = | 18.312           |
|                                            |                               |     |       |        | 349.0629         |
| <u>J. No. 2: Boundary of existing area</u> |                               |     |       |        |                  |
| Local small area on right                  |                               |     |       |        |                  |
| bats as per drawing                        |                               |     |       |        |                  |

|                                                                                                                                                                                                                                                                                                                  |    |     |       |        |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|-------|--------|---------|
|                                                                                                                                                                                                                                                                                                                  | 3x | 30x | 1.09x | 0.10 = | 9.81    |
|                                                                                                                                                                                                                                                                                                                  | 1x | 15x | 1.08x | 0.10 = | 1.62    |
|                                                                                                                                                                                                                                                                                                                  | 3x | 30x | 1.00x | 0.10 = | 9.00    |
|                                                                                                                                                                                                                                                                                                                  | 1x | 5x  | 1.00x | 0.10 = | 0.50    |
|                                                                                                                                                                                                                                                                                                                  | 3x | 30x | 1.05x | 0.10 = | 9.45    |
|                                                                                                                                                                                                                                                                                                                  | 1x | 16x | 1.05x | 0.10 = | 1.68    |
|                                                                                                                                                                                                                                                                                                                  |    |     |       |        | 32.0643 |
| <div style="display: flex; justify-content: space-between;"> <div> <br/> 16/11/21<br/> J.E. Arman </div> <div> <br/> 17/10/ </div> </div> |    |     |       |        |         |
| (1) Boundary of bats — 349.0629                                                                                                                                                                                                                                                                                  |    |     |       |        |         |
| (2) Local small area — 32.0643                                                                                                                                                                                                                                                                                   |    |     |       |        |         |
| <div style="display: flex; justify-content: space-between;"> <div> <br/> 16/11/21<br/> J.E. Arman </div> <div>  </div> </div>             |    |     |       |        |         |

Continuation

