

Date:  
1. Name of PIUs-

Inspection Report for Flood damage work  
E.E RWD Division, Muzhuvu

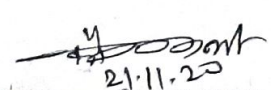
2. Name of Block/Road- Muzhuvu

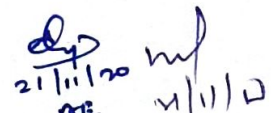
Estimate for Repair of Road Breaches (Damage by Flood)  
A. For Road For maintainable work in Terna Anna to Kesan Kudariy.

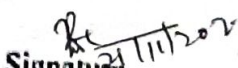
1. Damage Location/Chainage : Ch - 0.00 KM
2. Damage Length : - 125M
3. Nature of Damage : curin Road, due to flood & rain
4. Details of Restoration:
  - i Material being used in Restoration : - Bitum Bts
  - ii Equipment/Tools being used in Restoration works: - Tactor, Roller, Tolly & etc
  - iii Procedure taken up in Restoration works : - Bitum Dots
  - iv Restored Length : 125M

B. For Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage :
4. Details of Restoration:
  - i Material being used in Restoration :
  - ii Equipment/Tools being used in Restoration works:
  - iii Procedure taken up in Restoration works :
  - iv Restored Length :

  
21/11/20  
Signature of JE/AF/EE

  
21/11/20  
me

  
Signature

(Name of Inspector)



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## FDR

### PLAN HEAD FDR (2245) (2020-2021)



### ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY FLOOD) FOR MOTARABLE WORK IN TERIA ARNA TO KARAN KUDARIYA

|                            |    |          |    |
|----------------------------|----|----------|----|
| DISTRICT                   | :- | Saran    |    |
| DIVISION -                 | :- | Marhaura |    |
| BLOCK                      | :- | Mashrakh |    |
| TOTAL LENGTH OF ROAD       | :- | 2.974    | KM |
| TOTAL COST OF CONSTRUCTION | :- | 60.734   | ₹  |
| TOTAL COST OF PROJECT      | :- | 60.734   | ₹  |

# FDR

## GENERAL ABSTRACT OF COST

Block:- Mashrakh

District:- Saran

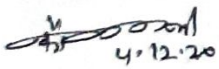
Length of Road:-

2.974 KM

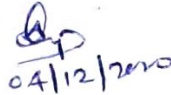
Name of Road:-

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Teria Arna To Karan Kudariya.

| SL. No. | Item of Work | Amount        |
|---------|--------------|---------------|
| A       | TOTAL COST   | : 60.734 Lacs |
|         | TOTAL        | : 60.734 Lacs |

  
4.12.20

Junior Engineer -

  
04/12/2020

Asstt. Engineer



Executive Engineer

Technically approved for Rs 6073400 = (Sixty one Lacs Seventy three thousand four hundred)

  
4-12-20  
अधीक्षक अभियंता  
ग्रामीण कार्य विभाग  
कार्य अंचल, छपरा

| Name Of Road :- |               | Estimate for Repair of Road Breaches (Damage By Flood) For<br>Motorable Work In Terla Arna To Karan Kudariya. |                                                                                                                                                                                                                                                                                               |  |      |     |        | Block :- | Mashrakdh | DISTRICT:- | Saran    | LENGTH :-          | 2.974 KM |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-----|--------|----------|-----------|------------|----------|--------------------|----------|
| Sl. No.         | SDB<br>SL. NO | MORD<br>Ref.No                                                                                                | Description                                                                                                                                                                                                                                                                                   |  | Unit | NOS | LENGTH | WIDTH    | HEIGHT    | QUANTITY   | RATE     | AMOUNT<br>(In Rs.) |          |
| 1               | 8.1.3.2       |                                                                                                               | BRICK BATS                                                                                                                                                                                                                                                                                    |  |      |     |        |          |           |            |          |                    |          |
|                 | (iii)         |                                                                                                               | Providing brick bats including spreading laying,Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete job as per approved design specification and direction of E/L including carriage cost of bricks. |  |      |     |        |          |           |            |          |                    |          |
|                 |               |                                                                                                               | Quantity As Per Annexure                                                                                                                                                                                                                                                                      |  | Cum  |     |        |          |           | 2,820.250  |          |                    |          |
|                 |               |                                                                                                               | Total Quantity=                                                                                                                                                                                                                                                                               |  |      |     |        |          |           | 2,820.25   | 2,153.51 | 60,73,423.00       |          |
|                 |               |                                                                                                               | TOTAL COST IN RS.=                                                                                                                                                                                                                                                                            |  |      |     |        |          |           |            |          | 60,73,423.00       |          |

JE 4.12.20 RWD

AE 01/12/20 RWD

EE 01/12/20 RWD

# ANNEXTURE-1

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For  
Motorable Work in Terla Arna To Karan Kudariya.

| Sl. No.          | Description | Nos. | LENGTH<br>(m) | WIDTH<br>(m)(Av.) | HEIGHT<br>(m)(Av.) | UNIT | Block:- Mashrakh |
|------------------|-------------|------|---------------|-------------------|--------------------|------|------------------|
| 1                | CH-0.00 km  | 1    | 100.00        | 6.00              | 4.05               | CUM  | QUANTITY         |
| 2                | CH-0.00 km  | 1    | 5.00          | 5.50              | 1.10               | CUM  | 2430.00 m3       |
| 3                | CH-0.00 km  | 1    | 20.00         | 6.00              | 3.00               | CUM  | 30.25 m3         |
| TOTAL QUANTITY = |             |      |               |                   |                    |      | 360.00 m3        |
|                  |             |      |               |                   |                    |      | 2820.25 m3       |

  
4.12.20  
JE  
RWD

  
04/12/2020  
AE  
RWD

  
SE  
RWD

## Brick Bats Pitching Manual Means

| Sl. No.               | DESCRIPTION                                                                                                                                                                                             | Unit | Quantity | Rate   | Amount in Rs  |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|--------|---------------|
| 6.6.1<br>WRD<br>Bihar | 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/L. |      |          |        |               |
|                       | Unit:-Per Cum                                                                                                                                                                                           |      |          |        |               |
|                       | Taking Output =2.832 Cum                                                                                                                                                                                |      |          |        |               |
|                       | Unskilled Mazdoor                                                                                                                                                                                       | Nos. | 3        | 287.00 | 861.00        |
|                       | Add 6% Overhead Charge                                                                                                                                                                                  |      |          |        | 51.66         |
|                       | Rate for 2.832 Cum                                                                                                                                                                                      |      |          |        | 912.66        |
|                       | <b>Rate Per Cum(Rs.)=</b>                                                                                                                                                                               |      |          |        | <b>322.27</b> |
|                       |                                                                                                                                                                                                         |      |          |        |               |
|                       |                                                                                                                                                                                                         |      |          |        |               |
| <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    | 549.10 | 366.25        |
|                       | Time Taken For empty return trip                                                                                                                                                                        | hour | 0.400    | 549.10 | 219.64        |
|                       | b) Overhead Charges @0.06 on (a)                                                                                                                                                                        |      |          |        | 35.15         |
|                       | Cost for 36 t km=(a+b+c)/36                                                                                                                                                                             |      |          |        | 621.04        |
|                       | <b>Say RS.-</b>                                                                                                                                                                                         |      |          |        | <b>17.25</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    | 549.10 | 457.40        |
|                       | Time Taken For empty return trip 0.50                                                                                                                                                                   | hour | 0.500    | 549.10 | 274.55        |
|                       | b) Overhead Charges @0.06 on (a)                                                                                                                                                                        |      |          |        | 43.92         |
|                       | Cost for 36 t km=(a+b+c)/840.34                                                                                                                                                                         |      |          |        | 775.87        |
|                       | Rate per t.km = (a+b+c)/3623.34                                                                                                                                                                         |      |          |        | 21.55         |
|                       | <b>Say RS.-</b>                                                                                                                                                                                         |      |          |        | <b>21.55</b>  |
|                       |                                                                                                                                                                                                         |      |          |        |               |
|                       |                                                                                                                                                                                                         |      |          |        |               |

| 1.1 RCD | Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum                                                   |         |       |         |         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------|---------|
|         | 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  | 305.00  | 9.15    |
|         | Mazdoor for loading and unloading                                                                                                   | Day     | 0.72  | 287.00  | 206.64  |
|         | b) Machinery                                                                                                                        |         |       |         |         |
|         | Tractor 3.60 tonnes capacity                                                                                                        | hour    | 0.10  | 549.10  | 54.91   |
|         | Front end loader 1 cum bucket capacity @ 25 cum/hour                                                                                | hour    | 0.08  | 1403.00 | 116.45  |
|         | c) Overhead charges @ 0.06 on (a+b)                                                                                                 |         |       |         | 23.23   |
|         | Cost for 2.25 cum = a+b+c+d                                                                                                         |         |       |         | 410.38  |
|         | <b>Cost for 2.25 cum = (a+b+c+d)/2.25</b>                                                                                           |         |       |         | 182.39  |
| Note-   | Unloading will be done manually.                                                                                                    |         |       |         |         |
| 1       | Suplying for Brick Bats (With OH )                                                                                                  | Per Cum |       | 1017.00 | 1017.00 |
| A       | Basic Rate of Brick Bats                                                                                                            |         | 0.06  |         | 61.02   |
|         | Add overhead Charges 6%                                                                                                             |         |       |         | 1078.02 |
|         | Total-                                                                                                                              |         |       |         |         |
|         | Surface Lead                                                                                                                        | km      | 7.00  |         |         |
|         | Unsurface Lead                                                                                                                      | km      | 1.00  |         |         |
|         | Factor(3.6/2.25)                                                                                                                    | cum     | 1.60  |         |         |
| B       | Carriage ( with OH )                                                                                                                |         |       |         | 410.07  |
|         | (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39                                                                                      |         |       |         |         |
| C       | Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)                                                        |         |       |         | 322.27  |
|         | Total (A+B+C)-                                                                                                                      |         |       |         | 1810.36 |
|         | Add 1% Labour Cess (A+B+C)                                                                                                          |         |       |         | 18.10   |
|         | Add 12% GST(A+B+C)                                                                                                                  |         |       |         | 217.24  |
|         | Add 10% cost of Material for seigniorage Fee                                                                                        |         | 1.00  | 107.80  | 107.80  |
|         | <b>Total Cost per Cum</b>                                                                                                           |         | Rs:-  |         | 2153.51 |