

Inspection Report for flood damage work

E.B.R.W.D Division, Morhange.

Date:

1. Name of PIUs-

2. Name of Block/Road- Morhange

Estimate for Repair breaches (Damage by flood)  
A. For Road for notifiable work in Bangra middle school to  
panapur Gme Tak.

1. Damage Location/Chainage : 1.20 & 1.40 Km

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

: Bricks Bats  
: Tactor, Roller, golly  
: - Bricks Bats 2+  
: 120 m

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/AE/EE

21/11/20  
21/11/20

21/11/20  
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 BANGRA MIDDLE SCHOOL TO PANAPUR SIMA TAK.

|                            |    |          |     |
|----------------------------|----|----------|-----|
| DISTRICT                   | :- | Saran    |     |
| DIVISION                   | :- | Marhaura |     |
| BLOCK                      | :- | Mashrakh |     |
| TOTAL LENGTH OF ROAD       | :- | 3.000    | KM  |
| TOTAL COST OF CONSTRUCTION | :- | 24.582   | Lac |
| TOTAL COST OF PROJECT      | :- | 24.582   | Lac |

# FDR

## GENERAL ABSTRACT OF COST

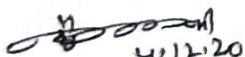
Block:- Mashrakh

District:- Saran

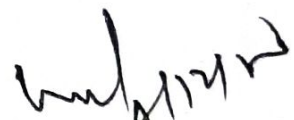
Length of Road:-- 3.000 KM

Name of Road:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Bangra Middle School To Panapur Sima Tak.

| SL. No. | Item of Work | Amount      |
|---------|--------------|-------------|
| A       | TOTAL COST : | 24.582 Lacs |
|         | TOTAL :      | 24.582 Lacs |

  
4/12/20  
Junior Engineer

  
04/12/2020  
Asstt. Engineer

  
Executive Engineer

Technically approved 24.58200 - a / quantity for 19 km of itity  
Engt of the two km may  
अधीक्षक SE 4-12-20  
RWD अभियंता  
ग्रामीण कार्य विभाग  
कार्य अंचल, छपरा



# ANNEXTURE-1

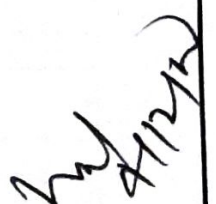
Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Bangra Middle School To Panapur Sima Tak.

Block:- Mashrakh

| Sl. No.          | Description | Nos. | LENGTH<br>(m) | WIDTH<br>(m) | HEIGHT<br>(m) | UNIT | QUANTITY   |
|------------------|-------------|------|---------------|--------------|---------------|------|------------|
| 1                | CH-1.200KM  | 1    | 95.00         | 6.00         | 1.20          | CUM  | 684.00 m3  |
| 2                | CH-1.400KM  | 1    | 25.00         | 6.00         | 3.05          | CUM  | 457.50 m3  |
| TOTAL QUANTITY = |             |      |               |              |               |      | 1141.50 m3 |

  
4.12.20  
4.12.20  
JE  
RWD

  
04/12/2020  
AE  
RWD

  
4/12/20  
EE  
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/I. |      |          |        |              |
|                       | Unit:-Per Cum                                                                                                                                                                                           |      |          |        |              |
|                       | Taking Output =2.832 Cum                                                                                                                                                                                |      |          |        |              |
|                       | Unskilled Mazdoor                                                                                                                                                                                       |      |          |        |              |
|                       | Add 6% Overhead Charge                                                                                                                                                                                  | Nos. | 3        | 287.00 | 861.00       |
|                       | Rate for 2.832 Cum                                                                                                                                                                                      |      |          |        | 51.66        |
|                       | <b>Rate Per Cum(Rs.)=</b>                                                                                                                                                                               |      |          |        | 912.66       |
|                       |                                                                                                                                                                                                         |      |          |        | 322.27       |
|                       |                                                                                                                                                                                                         |      |          |        |              |
| <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>                                                                                                                                                                                         |      |          |        | 17.25        |
|                       |                                                                                                                                                                                                         |      |          |        |              |
|                       | <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>                                                                                                                                                                                         |      |          |        | 21.55        |
|                       |                                                                                                                                                                                                         |      |          |        |              |
|                       |                                                                                                                                                                                                         |      |          |        |              |

| .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 )                                           |         |         |         |        |
| A                                                                                                                                   | Basic Rate of Brick Bats                                                     | Per Cum | 1017.00 | 1017.00 |        |
|                                                                                                                                     | Add overhead Charges 6%                                                      | 0.06    |         | 61.02   |        |
|                                                                                                                                     | Total-                                                                       |         |         | 1078.02 |        |
|                                                                                                                                     | 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 17.25) + (1.6 x 1 x 21.55) + 182.39                               |         |         |         | 410.07 |
| C                                                                                                                                   | Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH) |         |         |         |        |
|                                                                                                                                     | 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 |        |