

# Inspection Report For Flood Damage Works

Date :-

1. Name of PIUs – Executive Engineer, R.W.D. (W.D.) Motihari
2. Name of Block - Ghorasahan
3. Name of Road – Jamuniya - Kewaiya

## (A) For Road

1. Damage Location/ Chainage :-
2. Damage Length :- 113 M
3. Nature of Damage :- Flood & Heavy Rain
4. Details of Restoration Works.
  - (i) Material being used in Restoration Works :- Bricks Bats
  - (ii) Equipments/Tools being used in Restoration Works :-
  - (iii) Procedure taken up in Restoration Works :-
  - (iv) Restored Length :- 113 M

*Satisfactory*

*kmals*  
*25.2.22*  
*3 B*

*25/2/22*  
*Motihari*

*25/2/22*  
Signature of Inspecting Officer  
(Executive Engineer)  
R.W.D., (W.D.) Motihari



# ग्रामीण कार्य विभाग

Rural Works Department, Govt. of Bihar

PLAN HEAD-FDR

YEAR 2021-2022

**DISTRICT;-EAST CHAMPARAN**

**BLOCK;-GHORASAHAN**

Estimate for Repair of Road breaches (Damaged by Flood)  
For Motorability in **JAMUNIYA -KEWAIYA**

ESTIMATED COST;-Rs. **513000.00** — 582700.00

LENGTH:                      KM

Submitted by:

Executive Engineer

**RWD WORKS DIVISION**

**DHAKA**

F.D.R (2021-22)

तकनीकी प्रतिवेदन

पथ का नाम :- जमुनिया - 2084

प्रस्ताव का नाम :- 6/51600

शीर्ष :- MR 3054

प्राक्कलित राशि :- 513000 482700.00

अनुसंधान अवधि :- 31/3/2021

प्रस्तुत प्राक्कलन जमुनिया - 2084

में अतिवृष्टि बाढ़ से क्षतिग्रस्त पथांशों यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि 513000 रु० है। प्रस्तुत प्राक्कलन सचिव, ग्रामीण कार्य विभाग, पटना के पत्रांक-1937 दिनांक-07.07.2021 के निर्देशानुसार तैयार किया गया है पथ में अतिवृष्टि/बाढ़ के कारण क्षतिग्रस्त पथांशों में Back bal से भरने का प्रावधान किया गया है।

प्राक्कलन में दिये गये दर वर्तमान अनुसूचित दर के अनुरूप है।

Keshu  
ग्रामीण

सहायक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रशाखा 6/51600

सिंह  
20/11/21

सहायक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य अवर प्रमंडल 6/51600

सिंह  
21/11/21  
कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल 6/51600

Name of work :- Estimate for Repair of Road breaches (Damaged by Flood) for Motorability in  
JAMUNIYA -KEWAIYA

HEAD:- FDR Length:- km

| Sl No                  | Name of Item                                                                                                                                                                                                          | Unit | QTY    | Rata               | Amount                |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|--------------------|-----------------------|
|                        |                                                                                                                                                                                                                       |      | M3     | Rs                 | Rs                    |
| 1.                     | Labour for laying dry graded jhama khoa<br>Or stone filter under Brick Pitching in<br>Slope or apron including light ramming<br>Etc. all complete as per approved design.<br>Specification and direction of ..... E/I | M3   | 248.95 | 1938.87<br>2060.40 | 482687.0<br>512937.00 |
| 2.                     | Providing and laying RCC NP3 for culaverts<br>On first class bedding of granular material<br>In single/dubal row including fixing collar with<br>CM 1:2 but excluding excavation ..... E/I                            | M    |        |                    |                       |
| 3.                     | Sand filling with Appoved Materials Seposited<br>at site from road way cutting and excavation<br>from drain and foundation of other strecture<br>graded and compected as per Technical<br>specification ..... E/I     | Bag  |        |                    |                       |
| Total(in Rs 512937.00  |                                                                                                                                                                                                                       |      |        |                    | 482687.0              |
| Say Total Rs 513000.00 |                                                                                                                                                                                                                       |      |        |                    | Rs 482700.0           |

C.O.

*J. E.*  
20/11/2021  
J.E

*A. E.*  
20/11/21  
A.E

*E. E.*  
21/11/21  
E.E

Post facto V.A.T.S is accorded for Rs. 4,82,700.00  
( ) crore Four Eighty two  
Seven hundred ( ) paise

  
S.E. (RHD)  
WORKS Circle  
Mumbai

purnName of Work:- Estimate for Repair of Road breaches (Damaged by Flood)for

JAMUNIYA - KEWAIYA

Appendix -1

Measurement for surfacing the Breach with.....Filling

| Sl.No | Chainage Km | Length(m) | Avg.Width (M) | Avg.Depth (M) | Quantity(cum) |
|-------|-------------|-----------|---------------|---------------|---------------|
|       |             | 10.80     | 3.20          | 0.600         | 20.73         |
|       |             | 22.40     | 3.75+4.25/2   | 0.500         | 44.80         |
|       |             | 8.60      | 3.00          | 0.700         | 18.06         |
| 0     |             | 34.30     | 3.75+4.25/2   | 0.600         | 82.32         |
|       |             | 4.10      | 1.90          | 0.800         | 6.08          |
|       |             | 9.50      | 2.10          | 0.700         | 13.96         |
|       |             | 15.20     | 3.75+4.75/2   | 0.900         | 54.72         |
|       |             | 3.00      | 1.60          | 0.600         | 2.88          |
|       |             | 5.00      | 2.70          | 0.400         | 5.40          |

Total QTY:- 248.95

T  
Kewaiya  
20/11/21  
J.E

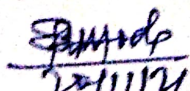
Samir  
20/11/21  
A.E

Samir  
21/11/21  
E.E

# BRICK BATTS PITCHING MANUAL MEANS

| 6.6.1<br>WRD<br>Bihar | Labour for laying dry graded dhama Khoa or stone filter 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                                                                                                                                                                                                |      |       | 304.00 | 912.00 |
|                       | Unskilled Man/door                                                                                                                                                                                                       | Nos. | 3     |        | 0      |
|                       | Add 0% Overhead Charges                                                                                                                                                                                                  |      |       |        | 912.00 |
|                       | Rate for 2.832 Cum                                                                                                                                                                                                       |      |       |        | 322.03 |
|                       | Rate per Cum (Rs.) -                                                                                                                                                                                                     |      |       |        |        |
| 1.4 RCD               | Cost of Haulage Excluding Loading and Unloading                                                                                                                                                                          |      |       |        |        |
|                       | 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                                                                                                                                                                |      |       |        |        |
|                       | (i) Surfaced Road                                                                                                                                                                                                        |      |       |        |        |
|                       | Speed with load : 15 km / hour.                                                                                                                                                                                          |      |       |        |        |
|                       | Speed while Returning empty :25 km / hour.                                                                                                                                                                               |      |       |        |        |
|                       | a) Machinery.                                                                                                                                                                                                            |      |       |        |        |
|                       | Tractor 3.6 tonne capacity                                                                                                                                                                                               |      |       |        | 408.20 |
|                       | Time taken for onward haulage with load                                                                                                                                                                                  | hour | 0.667 | 612.00 | 244.80 |
|                       | Time taken for empty return trip.                                                                                                                                                                                        | hour | 0.400 | 612.00 | 0.00   |
|                       | b) Overhead charges @ 0.00 on (a)                                                                                                                                                                                        |      |       |        | 0.00   |
|                       | c) Contractor's profit @ 0.1 on (a+b)                                                                                                                                                                                    |      |       |        | 653.00 |
|                       | cost for 36 t km = a+b+c                                                                                                                                                                                                 |      |       |        | 18.14  |
|                       | Rate per t.km = (a+b+c)/36                                                                                                                                                                                               |      |       |        | 18.14  |
|                       | Say Rs. -                                                                                                                                                                                                                |      |       |        |        |
|                       | (ii) Unsurfaced Graveled Road                                                                                                                                                                                            |      |       |        |        |
|                       | Speed with load: 12 km / hour                                                                                                                                                                                            |      |       |        |        |
|                       | Speed for empty return trip :20 km / hour                                                                                                                                                                                |      |       |        |        |
|                       | a) Machinery                                                                                                                                                                                                             |      |       |        |        |
|                       | Tractor 3.6 tonnes capacity                                                                                                                                                                                              |      |       |        | 509.80 |
|                       | Time taken for onward haulage with load hour 0.833                                                                                                                                                                       | hour | 0.833 | 612.00 | 306.00 |
|                       | Time taken for empty return trip hour 0.500                                                                                                                                                                              | hour | 0.500 | 612.00 | 0.00   |
|                       | b) Overhead charges @ 0.06 on (a)                                                                                                                                                                                        |      |       |        | 0.00   |
|                       | c) Contractor's profit @ 0.1 on (a+b)                                                                                                                                                                                    |      |       |        | 815.80 |
|                       | Cost for 36 t .km = a+b+c                                                                                                                                                                                                |      |       |        | 22.66  |
|                       | Rate per t.Km = (a+b+c)/36                                                                                                                                                                                               |      |       |        | 22.66  |
|                       | Say Rs. -                                                                                                                                                                                                                |      |       |        |        |

| 1.1 RCD Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum           |         |       |       |         |         |
|------------------------------------------------------------------------------------------------|---------|-------|-------|---------|---------|
| Placing Tractor at loading point, loading with front loader, dumping, turning for return trip, |         |       |       |         |         |
| Unit = cum                                                                                     |         |       |       |         |         |
| Taking output = 2.25 cum                                                                       |         |       |       |         |         |
| Time required for                                                                              |         |       |       |         |         |
| i) Positioning of Tractor 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                                                 |         |       | 0 Min |         |         |
| Total                                                                                          |         |       | 6 Min |         |         |
| a) Labour                                                                                      |         |       |       |         | 9.63    |
| Mate                                                                                           | day     | 0.03  |       | 321.00  |         |
| Mazdoor for loading and unloading                                                              | day     | 0.72  |       | 304.00  | 218.88  |
| b) Machinery                                                                                   |         |       |       |         | 61.20   |
| Tractor 3.60 tonnes capacity                                                                   | hour    | 0.1   |       | 612.00  |         |
| Front end-loader 1 cum bucket capacity @ 25 cum/hour                                           | hour    | 0.083 |       | 1594.00 | 132.30  |
| c) Overhead charges @ 0.00 on (a+b)                                                            |         |       |       |         | 0.00    |
| d) Contractor's profit @ 0.1 on (a+b+c)                                                        |         |       |       |         | 0.00    |
| Cost for 2.25 cum = a+b+c+d                                                                    |         |       |       |         | 422.01  |
| Rate per cum = (a+b+c+d)/ 2.25                                                                 |         |       |       |         | 187.56  |
| Note:- Unloading will be done manually.                                                        |         |       |       |         |         |
| 1. Supplying for Brick Bats (with OH )                                                         |         |       |       |         |         |
| A. Basic Rate of Brick Bats                                                                    | Per Cum |       |       | 987.00  | 987.00  |
| Add overhed Charges                                                                            |         | 0%    |       |         | 0.00    |
| Total -                                                                                        |         |       |       |         | 987.00  |
| Surface Lead                                                                                   | KM      | 7     |       |         |         |
| Unsurface Lead                                                                                 | KM      | 1     |       |         |         |
| Factor (3.6/2.25)                                                                              | Cum     | 1.60  |       |         |         |
| B. Carriage (with OH )                                                                         |         |       |       |         |         |
| (1.6 x 7 x 18.14) + (1.6 x 1 x 22.66) + 187.56                                                 |         |       |       |         | 426.98  |
| C. Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)                |         |       |       |         |         |
|                                                                                                |         |       |       |         | 322.02  |
| Total (A+B+C) -                                                                                |         |       |       |         | 1736.01 |
| Add 1% Labour Cess (A+B+C)                                                                     |         |       |       |         | 17.36   |
| Add 12% GST (A+B+C)                                                                            |         |       |       |         | 208.32  |
| Add 10% basic rate of material for seigniorage fee                                             |         |       | 1     | 987.00  | 98.70   |
| Total Cost per Cum                                                                             |         |       |       | Rs.-    | 2060.40 |

  
 20/11/24  
 S. B.