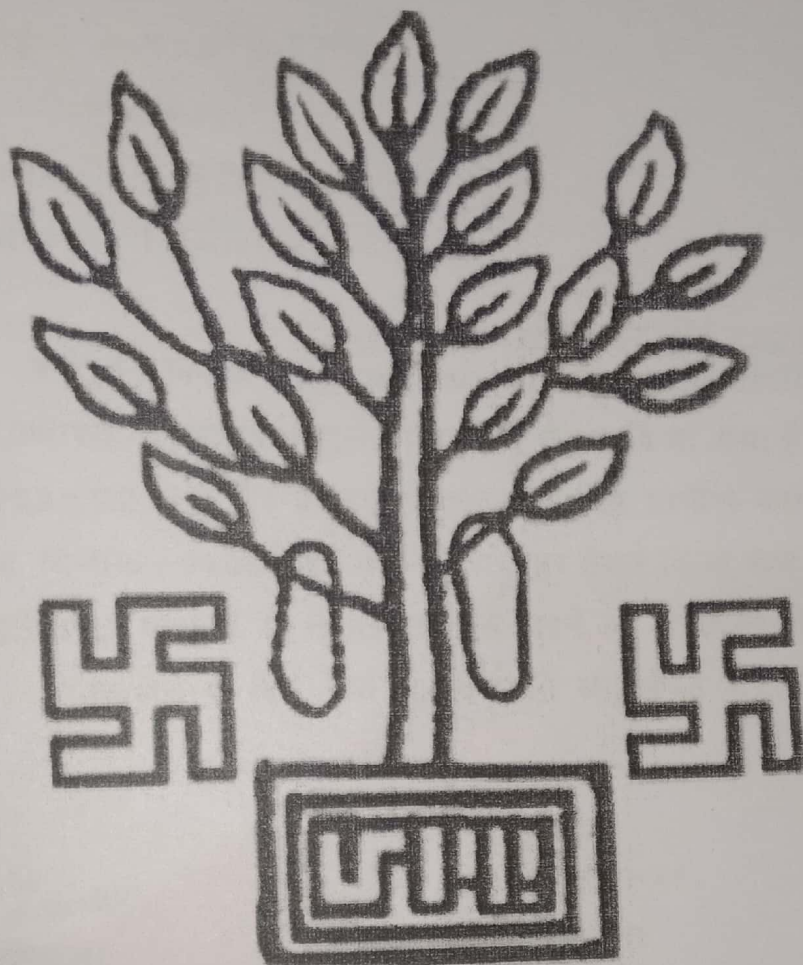


GOVERNMENT OF BIHAR  
FDR (2020-21)



बिहार सरकार

|                                                                                   |                 |
|-----------------------------------------------------------------------------------|-----------------|
| Name of Road:- Dhaka Phulwariya Path me Chaknagri<br>to Narkatia Harijan Toli Tak | Length-0.955 Km |
| Estimated Cost- Rs.:- 3,92,700.00                                                 | Block- Dhaka    |

Submitted By  
Executive Engineer  
R.W.D. (W) Division Dhaka

## F.D.R (2020-21)

### तकनीकी प्रतिवेदन

पथ का नाम :- ढाका - फुलवडिया रोड में चकनगरी से मदिआ हरिजन रोली तक  
प्रखंड का नाम :- ढाका

पथ की लम्बाई :- ०.९५५ कि०मी०

शीर्ष :- MMGSY

प्राक्कलित राशि :- रु० ३,९२,७०००००

अनुरक्षण अवधि :- निर्माणोपेक्षा

ढाका - फुलवडिया रोड में चकनगरी से मदिआ हरिजन रोली तक में अतिवृष्टि / वाढ़ से क्षतिग्रस्त पथाशों में यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि रु० ३,९२,७००००० है। प्रस्तुत प्राक्कलन सचिव ग्रामीण कार्य विभाग बिहार पटना के पत्रांक:-2254, दिनांक:-30.06.2020 के निर्देशानुसार तैयार किया गया है। पथ में अतिवृष्टि / वाढ़ के कारण क्षतिग्रस्त पथाशों में Brick Bats से भरने का प्रावधान किया गया है।  
प्राक्कलन में दिये गये दर वर्तमान अनुसूचित दर के अनुरूप है।

1-9-2020  
कनीय अभियंता

ग्रामीण कार्य विभाग  
कार्य प्रशाखा, ढाका।

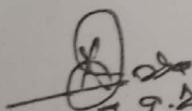
07/09/2020  
सहाय अभियंता  
ग्रामीण कार्य विभाग  
कार्य अवर प्रमंडल, ढाका

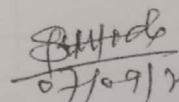
07/09/2020  
कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, ढाका

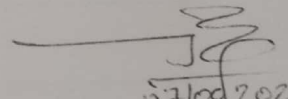
Estimate for Restoration work of Road from Dhaka Phulwariya Path me Chaknagri to Narkatia Harijan Toli Tak for the year 2020-21 in Dhaka Block.

Length:- 0.955Km

| SL N. | Name of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit           | Quantity M <sup>3</sup> | Rate Rs. | Amount Rs.  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|----------|-------------|
| 1     | Labour for laying dry graded jhama khoa or stone filter under Bricks pitching in slope or apron including light ramming etc..... all complete as per approved design specification and direction of E/I. (Brick Bats)<br>CH:-820M to 835M<br>15.00x4.25+5.00x0.450 = 31.22M <sup>3</sup><br>CH:-835M to 840M<br>5.00x4.50+6.00/2x1.50 = 39.38M <sup>3</sup><br>CH:-840M to 845M<br>5.00x4.25+5.00/2x0.450 = 10.41M <sup>3</sup><br>CH:-890M to 905M<br>15.00x3.50+4.05/2x0.450 = 25.48M <sup>3</sup><br>CH:-905M to 917M<br>12.00+10.00/2x5.00+6.00/2x1.40 = 84.70M <sup>3</sup><br>Total = 191.19M <sup>3</sup> | M <sup>3</sup> | 191.19                  | 2053.84  | 3,92,674.00 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Total=                  | Rs.      | 3,92,674.00 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                         | Say Rs.  | 3,92,700.00 |

  
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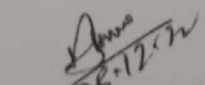
  
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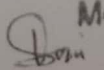
Est. Facts

T.A./T.S. is accorded for Rs. 3,92,700 = 00

(.....crore Three Ninety Two thousand

Seven hundred ..... only

  
S.E. (W.D.)  
works Circle  
Motihari

  
29-12-20



# BRICK BATS PITCHING MANUAL MEANS

|                       |                                                                                                                                                                                                                           |      |       |        |                          |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|--------------------------|
| 6.6.1<br>WRD<br>Bihar | Labour for laying dry graded Jhama Khola 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/I. |      |       |        |                          |
|                       | Unit :- Per Cum                                                                                                                                                                                                           |      |       |        |                          |
|                       | Taking Output = 2.832 Cum                                                                                                                                                                                                 |      |       |        |                          |
|                       | Unskilled Mazdoor                                                                                                                                                                                                         | Nos. | 3     | 287.00 | 861.00                   |
|                       | Add 6% Overhead Charges                                                                                                                                                                                                   |      |       |        | 51.66                    |
|                       | Rate for 2.832 Cum                                                                                                                                                                                                        |      |       |        | 912.66                   |
|                       | Rate per Cum (Rs.) -                                                                                                                                                                                                      |      |       |        | <del>383.15</del> 322.27 |
| 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                                                                                                                                                                                                |      |       |        |                          |
|                       | 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)                                                                                                                                                                                         |      |       |        |                          |
|                       | cost for 36 t km = a+b+c                                                                                                                                                                                                  |      |       |        |                          |
|                       | Rate per t.km = (a+b+c)/36                                                                                                                                                                                                |      |       |        |                          |
|                       | 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                                                                                                                                                                                               |      |       |        |                          |
|                       | Time taken for onward haulage with load                                                                                                                                                                                   | hour | 0.833 | 549.10 | 457.40                   |
|                       | Time taken for empty return trip hour 0.5                                                                                                                                                                                 | hour | 0.500 | 549.10 | 274.55                   |
|                       | b) Overhead charges @ 0.06 on (a)                                                                                                                                                                                         |      |       |        |                          |
|                       | Cost for 36 t .km = a+b+c 840.34                                                                                                                                                                                          |      |       |        |                          |
|                       | Rate per t.Km = (a+b+c)/36 23.34                                                                                                                                                                                          |      |       |        |                          |
|                       | Say Rs. -                                                                                                                                                                                                                 |      |       |        |                          |

| 1.1 RCD Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum |                                                | Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excluding for haulage and return trip |         |         |
|--------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| Unit = cum                                                                           |                                                |                                                                                                                                     |         |         |
| Taking output = 2.25 cum                                                             |                                                |                                                                                                                                     |         |         |
| Time required for                                                                    |                                                |                                                                                                                                     |         |         |
| i) Positioning of Tractor at loading point                                           |                                                |                                                                                                                                     |         |         |
| ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour              |                                                | 1 Min                                                                                                                               |         |         |
| iii) Maneuvering, reversing, dumping and turning for return                          |                                                | 5 Min                                                                                                                               |         |         |
| iv) Waiting time, unforeseen contingencies etc                                       |                                                | 0 Min                                                                                                                               |         |         |
| Total                                                                                |                                                | 0 Min                                                                                                                               |         |         |
| a) Labour                                                                            |                                                | 6 Min                                                                                                                               |         |         |
| Mate                                                                                 |                                                | day                                                                                                                                 | 0.03    | 305.00  |
| Mazdoor for loading and unloading                                                    |                                                | day                                                                                                                                 | 0.72    | 287.00  |
| b) Machinery                                                                         |                                                |                                                                                                                                     |         |         |
| Tractor 3.60 tonnes capacity                                                         |                                                | hour                                                                                                                                | 0.1     | 549.10  |
| Front end-loader 1 cum bucket capacity @ 25 cum/hour                                 |                                                | hour                                                                                                                                | 0.083   | 1403.00 |
| c) Overhead charges @ 0.06 on (a+b)                                                  |                                                |                                                                                                                                     |         | 23.23   |
| Cost for 2.25 cum = a+b+c+d                                                          |                                                |                                                                                                                                     |         | 410.38  |
| Rate per cum = (a+b+c+d)/ 2.25                                                       |                                                |                                                                                                                                     |         | 182.39  |
| Note:- Unloading will be done manually.                                              |                                                |                                                                                                                                     |         |         |
| 1. Supplying for Brick Bats (with OH )                                               |                                                |                                                                                                                                     |         |         |
| A.                                                                                   | Basic Rate of Brick Bats                       | Per Cum                                                                                                                             | 1017.00 | 1017.00 |
|                                                                                      | Add overhed Charges                            | 6%                                                                                                                                  |         | 61.02   |
|                                                                                      | Total -                                        |                                                                                                                                     |         | 1078.02 |
|                                                                                      | Surface Lead                                   | KM                                                                                                                                  | 7       |         |
|                                                                                      | Unsurface Lead                                 | KM                                                                                                                                  | 1       |         |
|                                                                                      | 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.                                                                                   | Ramming as per WRD SOR 6.6.1 (with OH)         |                                                                                                                                     |         | 383.15  |
|                                                                                      | Total (A+B+C) -                                |                                                                                                                                     |         | 1871.24 |
|                                                                                      | Add 1% Labour Cess (A+B+C)                     |                                                                                                                                     |         | 18.71   |
|                                                                                      | Add 12% GST (A+B+C)                            |                                                                                                                                     | 1       | 101.70  |
|                                                                                      | Add 10% cost of Material for Seigniorage Fee   |                                                                                                                                     |         | 2216.20 |
|                                                                                      | Total Cost per Cum                             |                                                                                                                                     | Rs.-    | 2053.84 |

*[Signature]*  
1.9.2020  
J.E

*[Signature]*  
07/09/2020  
A.E

07/09/2020  
EE

# Inspection Report for Flood Damage Works:-

Date:-

1. Name of PIUs:- Executive Engineer. R.W.D. (W) Div.<sup>n</sup> Dhaka
2. Name of Block:- Dhaka
3. Name of Road :- Dhaka Phulwariya Path me Chaknagri to Narkatia Harigan Toli Tak

## (A) For Road

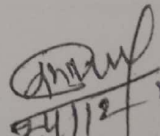
1. Damage Location Chainage:-

2. Damage Length:- 52 M

3. Name of Damage:- Road damaged due to flood.

4. Details of Restoration Work:-

- (i) Material being used in Restoration works:- Brick bats
- (ii) Equipments Tools being used in restoration works:-
- (iii) Procedure take up in restoration works:- Departmental
- (iv) Restored Length:- 52 M

  
24/12/2020  
Executive Engineer  
R.W.D. (W) Div.<sup>n</sup>  
Raxaul