

22

# GOVERNMENT OF BIHAR

## FDR (2020-21)



# बिहार सरकार

|  |                 |
|--|-----------------|
| Name of Road- Dhaka Phulwariya Road to Chaknagri | Length-1.958 Km |
| Estimated Cost- Rs.: -5,97,000.00                | Block- Dhaka    |

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

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

### तकनीकी प्रतिवेदन

पथ का नाम :- दाका-फुलवडिया रोड से चकनगरी,

प्रखंड का नाम :- दाका

पथ की लम्बाई:- 1.958 कि०मी०

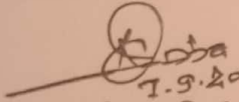
शीर्ष :- 3054

प्राक्कलित राशि:- ₹ - 5,97,000/-

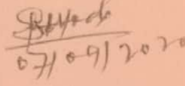
अनुरक्षण अवधि :- निर्माणार्थी

प्रस्तुत प्राक्कलन दाका-फुलवडिया रोड से चकनगरी में अतिवृष्टि/वाढ़ से क्षतिग्रस्त पथाशों में यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि मो० 5,97,000/- रु० 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।

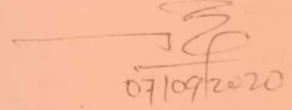
प्राक्कलन में दिये गये दर वर्तमान अनुसूचित दर के अनुरूप है।

  
1.9.2020

कनीय अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रशाखा, दाका।

  
07/09/2020

सहाय अभियंता  
ग्रामीण कार्य विभाग  
कार्य अवर प्रमंडल, दाका

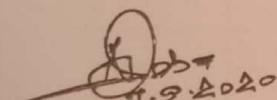
  
07/09/2020

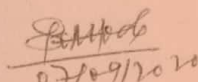
कार्यपालक अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमण्डल, दाका

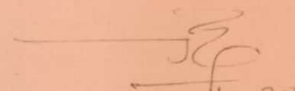
Estimate for Restoration work of Road from Dhaka Phulwariya Road to Chaknagri  
for the year 2020-21 in Dhaka Block.

Length:-1.958 Km


| SL<br>N. | Name of Item  | Unit           | Quantity<br>M <sup>3</sup> | Rate<br>Rs. | Amount<br>Rs. |
|----------|---|----------------|----------------------------|-------------|---------------|
| 1        | Labour for laying dry graded jhama khoa or stone filter<br>under Bricks pitching in slope or apron including light<br>ramming etc..... all complete as per approved design<br>specification and direction of E/I. (Brick Bat)<br><u>CH:- 05M to 95M</u><br>$90.00 \times 4.00 + 4.50 / 2 \times 0.450 + 0.600 / 2 = 200.81 \text{M}^3$<br><u>CH:- 975M to 1000M</u><br>$25.00 \times 4.10 \times 5.40 / 2 \times 0.300 + 1.20 + 0.400 / 3 = 77.19 \text{M}^3$<br>Total = 278.00M <sup>3</sup> | M <sup>3</sup> | 278.00                     | 2147.40     | 5,96,977.00   |
|          |   |                | Total=                     | Rs.         | 5,96,977.00   |
|          |   |                |                            | Say Rs.     | 5,97,000.00   |

  
1.9.2020  
JE.

  
07/09/2020  
AE.

  
07/09/2020  
EE.

Est. For Rs. T.A./S is accorded for Rs. 5,97,000.00  
Five crore, Five lacs, Ninety seven thousand  
hundred (.....) only.

  
S.E. (R.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 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/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> |
|                       |  |          |       |        |                   |
| 1.4 RCD               | <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) Surfaced Road</b>   |          |       |        |                   |
|                       | 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)  |          |       |        | 35.15             |
|                       | cost for 36 t km = a+b+c   |          |       |        | 621.04            |
|                       | Rate per t.km = (a+b+c)/36   |          |       |        | 17.25             |
|                       | Say Rs. -  |          |       |        | 17.25             |
|                       |  |          |       |        |                   |
|                       | <b>(ii) Unsurfaced Graveled 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   | hour 0.5 | 0.500 | 549.10 | 274.55            |
|                       | b) Overhead charges @ 0.06 on (a)  |          |       |        | 43.92             |
|                       | Cost for 36 t .km = a+b+c  |          |       |        | 775.87            |
|                       | Rate per t.Km = (a+b+c)/36   |          |       |        | 21.55             |
|                       | Say Rs. -  |          |       |        | 21.55             |
|                       |  |          |       |        |                   |

32227



|         |   |         |         |         |
|---------|---|---------|---------|---------|
| 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  | 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   |         |         |         |
|         | 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 )   |         |         |         |
|         | (1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39  |         |         | 410.07  |
| 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)   |         |         | 224.55  |
|         | Add 10% cost of Material for Seigniorage Fee  | 1       | 101.70  | 101.70  |
|         | Total Cost per Cum  |         | Rs.-    | 2216.20 |

322.27

1810.36

18.10

217.24

2147.40

1.9.2020  
J.E

BAH+db  
07/09/2020  
A.E

07/09/2020  
E.E

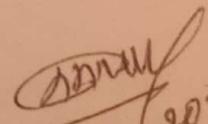
# Inspection Report for Flood Damage Works:-

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 Road to Chaknagri

## (A) For Road

1. Damage Location Chainage:-
2. Damage Length:- 115 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:- 115 m

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