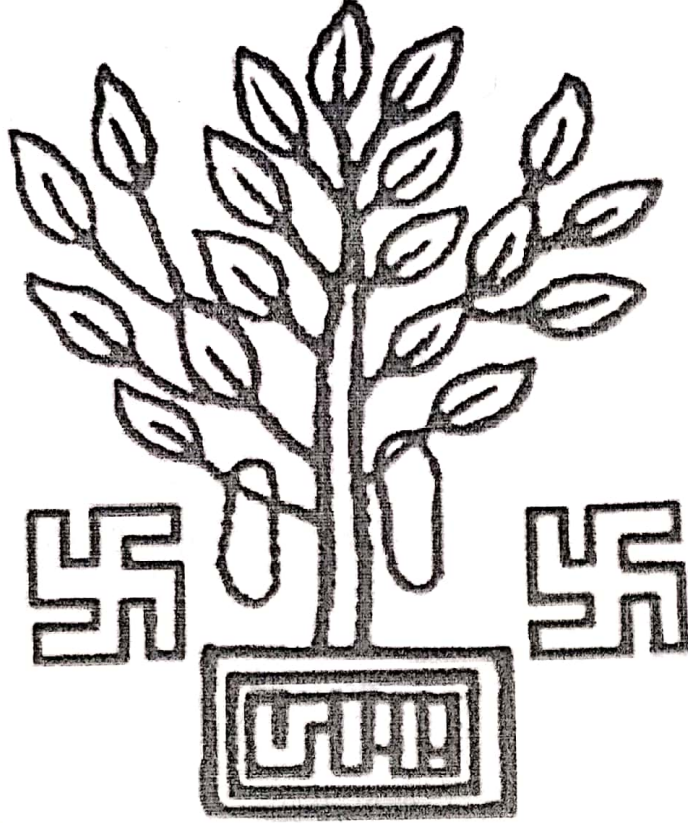# GOVERNMENT OF BIHAR
# FDR (2020-21)

बिहर सरकार

| Name of Road:- Dhaka karsahiya se Mushari Tola Hote Raksha Shyambakhari Path Tak | Length- 3.780Km |
|---|---|
| Estimated Cost- Rs.:- 1,55,200.00 | Block-   Dhaka |

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

# F.D.R (2020-21)

## तकनीकी प्रतिवेदन

पथ का नाम :– ढ़ाका-करहरिमें थे मुशहरी टोला होते हुए एकड़ी श्यामनगरी तक

प्रखंड का नाम :– ढ़ाका.
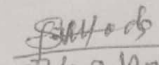
पथ की लम्बाई:– 3.780 कि.मी.
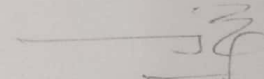
शीर्ष :– 3054.

प्राक्कलित राशि:– रू. 1,55,200.00

अनुरक्षण अवधि :– – – –

प्रस्तुत प्राक्कलन ढ़ाका-करहरिमें थे मुशहरी टोला होते हुए एकड़ी श्यामनगरी तक में अतिवृष्टि/वाढ़ से क्षतिग्रस्त पथांशों में यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि मो0. 1,55,200.00 रू0 है। प्रस्तुत प्राक्कलन सचिव ग्रामीण कार्य विभाग बिहार पटना के पत्रांक:–2254, दिनांकः–30.06.2020 के निर्देशानुसार तैयार किया गया है। पथ में अतिवृष्टि/वाढ़ के कारण क्षतिग्रस्त पथांशों में Brick Bats से भरने का प्रावधान किया गया है।

प्राक्कलन में दिये गये दर वर्त्तमान अनूसूचित दर के अनुरूप है।

7.9.2020

कनीय अभियंता

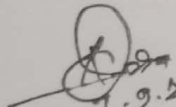ग्रामीण कार्य विभाग

कार्य प्रशाखा, ढ़ाका।

07/09/2020

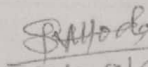सहाय अभियंता

ग्रामीण कार्य विभाग

कार्य अवर प्रमंडल, ढ़ाका

07/09/2020

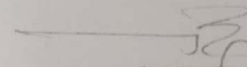कार्यपालक अभियंता

ग्रमीण कार्य विभाग

कार्य प्रमण्डल, ढ़ाका

# Estimate for Restoration work of Road from Dhaka karsahiya se Mushari Tola Hote Raksha Shyambakhari Path Tak for the year 2020-21 in Dhaka Block.

## Length:- 3.780 Km

| SL No. | Name of Item | Unit | Quantity $M^3$ | 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 Bat)<br>CH:- 1850M to 1857M (Approach Road of R.C.C Slab Culvert)<br>2x3.80+1.50+2.50/2x0.600+1.20+1.50/3 = 16.72M³<br>2x2.50x1.25+1.50/2x1.0+1.30+1.0/3 = 7.56M³<br>CH:- 3100M to 3140M<br>40.00x4.00x0.300<br>= 48.00M³<br>Total = 72.28M³ | M³ | 72.28 | 2147.40 | 1,55,214.00 |
|  |  |  | Total | Rs. | 1,55,214.00 |
|  |  |  |  | Say Rs. | 1,55,200.00 |

1.9.2020

J.E.
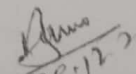
07/09/2020

A.E.

07/09/2020

E.E.

Post Facto T.A./TS is accorded for Rs. 1,55,200=00

(.................crore...One......lacs.....Fifty Five Th........

...........Two........hundred ..................... Only

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

29-12-20

| 6.6.1 WRD 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.) - | | | | ~~383.15~~  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) | | | | 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 |
| | | | | | |
| | (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) | | | | 43.92 |
| | Cost for 36 t .km = a+b+c 840.34 | | | | 775.87 |
| | Rate per t.Km = (a+b+c)/36 23.34 | | | | 21.55 |
| | Say Rs. - | | | | 21.55 |

| 1.1 RCD | Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moorum | | | | | |
|---|---|---|---|---|---|---|
| | Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excludingfor 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 | 9.15 |
| | Mazdoor for loading and unloading | day | | 0.72 | 287.00 | 206.64 |
| | b) Machinery | | | | | |
| | Tractor 3.60 tonnes capacity | hour | | 0.1 | 549.10 | 54.91 |
| | Front end-loader 1 cum bucket capacity @ 25 cum/hour | hour | | 0.083 | 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 |
| | Rate per cum = (a+b+c+d)/ 2.25 | | | | | 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 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~~ 322.27 |
| | Total (A+B+C) - | | | | | ~~1871.24~~ 1810.36 |
| | Add 1% Labour Cess  (A+B+C) | | | | | ~~18.71~~ 18.10 |
| | Add 12% GST  (A+B+C) | | | | | ~~224.55~~ 217.24 |
| | Add 10% cost of Material for Seigniorage Fee | | | 1 | 101.70 | 101.70 |
| | Total Cost per Cum | | | | Rs.- | 2216.20  2147.40 |

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07/09/2020
E.E

# Inspection Report for Flood Damage Works:-

Date:-

1. Name of PIUs:- Executive Engineer. R.W.D. (W) Div.^n Dhaka

2. Name of Block:- Dhaka

3. Name of Road :- Dhaka Karsahiya se Mushari Tola hote Hue Raksha Shyambakhari Path Tak.

## (A)For Road

1. Damage Location Chainage:-

2. Damage Length:-     47 M

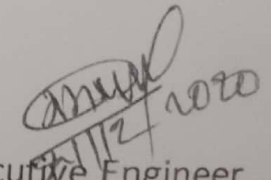3. Name of Damage:- Road damaged due to flood.

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:- 47 M.

Executive Engineer
R.W.D. (W) Div.^n
Raxaul