

# **RURAL WORKS DEPARTMENT**

## **GOVT OF BIHAR**



NAME OF WORKS :-

Baluwa Tappu tola to Bangali tola

BLOCK :-

Araria

**FDR**

Rs. 4810948.44

YEAR(2021-22)

R.W.D., WORKS CIRCLE, Kishanganj

R.W.D., WORKS DIVISION, Araria

ग्रामीण कार्य विभाग  
बिहार, सरकार

पत्रांक - मु0अ0-4 (मु0) विविध कार्य-23-60/2020 -1937

पटना, दिनांक 07/07/2021

प्रेषक,

पंकज कुमार पाल (भा0प्र0रो0)  
सचिव

सेवा में,

सभी कार्यपालक अभियंता  
ग्रामीण कार्य विभाग,

विषय- बाढ़ अतिवृष्टि से क्षतिग्रस्त पथों/पुलियों को यातायात लायक (Motorable) करने के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में निदेश दिया जाता है कि प्रमंडल अन्तर्गत सभी अभियंता बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों का शत प्रतिशत निरीक्षण करेंगे। पथों/पुलियों के क्षतिग्रस्त भाग से पानी उतरते ही उसे यातायात लायक बनाने की कारवाई एवं Motorable किये जाने से पहले तथा Motorable कार्य के बाद का Real time, Geo tagged photographs को MIS पर तत्क्षण अपलोड किया जाना सुनिश्चित करेंगे। इन कार्यों को कराने हेतु कार्यपालक अभियंता पूर्ण रूप से जिम्मेवार होंगे। कार्य न कराने की स्थिति में उनके विरुद्ध अनुशासनिक कार्रवाई की बाध्यता होगी।

विश्वासभाजन

(पंकज कुमार पाल)

सचिव

ज्ञापांक- मु0अ0-4 (मु0) विविध कार्य-23-60/2020 -1937

पटना, दिनांक 07/7/2021

प्रतिलिपि:-सभी अधीक्षण अभियंता को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। साथ ही उन्हें निदेश दिया जाता है कि वे लगातार अनुश्रवण एवं निरीक्षण करते हुए क्षतिग्रस्त भाग को अतिशीघ्र यातायात लायक बनवाने की कार्रवाई सुनिश्चित करेंगे।

सचिव

ज्ञापांक-मु0अ0-4 (मु0) विविध कार्य-23-60/2020 -1937

पटना, दिनांक 07/7/2021

प्रतिलिपि:-सभी मुख्य अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं लगातार अनुश्रवण करने हेतु प्रेषित।

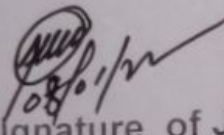
सचिव

## Inspection Report for Flood Damage Work

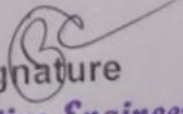
1. Name of PIUs : EE RW 3 (W) Division, Arraria
2. Name Of Block / Road : Arraria/Bakuwa Tappe talu to Bangali Tolu
- A. For Road
1. Damage Location / Chainage : at ch- 10M, 30M, 150M and 200M
2. Damage Length : 126M
3. Nature Of Damage : Flood
4. Details Of Restoration :
- i) Material Being Used In Restoration : Local Sand, bamboo, 2c Bag and Brick bats, HPC cement
- ii) Equipment / Tools Being Used In Restoration Works : Tractors with trolley
- iii) Procedure Taken Up In Restoration Works : Manual
- iv) Restored Length : 126Mtr

### B. For Bridge

1. Damage Location / Chainage :
2. Damage Length :
3. Nature Of Damage : N.A
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 :

  
Signature of JE / AE / EE

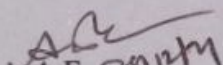
Found Satisfactory

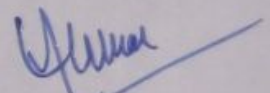
  
Signature  
Executive Engineer  
(Name Of Inspector)  
Kishanganj-2

**SUMMARY OF COST ESTIMATE FOR THE PROJECT**

|                              |                                                                  |                   |
|------------------------------|------------------------------------------------------------------|-------------------|
| NAME OF ROAD :-              | Baluwa Tappu tola to Bangali tola                                |                   |
| DISTRICT :-                  | Araria                                                           |                   |
| BLOCK :-                     | Araria                                                           |                   |
| Length of Road:-             | 1.50km                                                           |                   |
| Length of Cutting:-          | 126.5Mtr                                                         |                   |
| Sl. No.                      | DESCRIPTION                                                      | AMOUNT<br>(LAKHS) |
| <b>Phase-1 &amp; Phase-2</b> |                                                                  |                   |
| 1                            | Filling of local sand                                            | 1019740.01        |
| 2                            | Labour for cutting 62mm to 75mm dia bamboo                       | 62873.46          |
| 3                            | Labour for fitting 62mm to 75mm dia bamboo                       | 5760.34           |
| 4                            | Labour for filling empty cement bags with local sand Nylon crate | 0.00              |
| 5                            | Supplying of EC bag, of local sand                               | 273207.52         |
| 6                            | Supply and Carriage of brick bats                                | 2686465.75        |
| 7                            | Supply, laying and carriage of 1000 mm HPC                       | 66376.05          |
| 8                            | Granular Sub-base                                                | 0.00              |
|                              | SUB TOTAL COST =                                                 | 4114423.14        |
|                              | ADD GST @12% =                                                   | 493730.78         |
|                              | Add Labour cess @ 1%=                                            | 41144.23          |
|                              | Seigniorage Fees @10%=                                           | 161650.29         |
|                              | TOTAL (RS.) =                                                    | 4810948           |

  
28/12/21  
J.E

  
A.E 28/12/21

  
E.E

Ref. E.E. Letter No. 1457 Dt. 28/4/22

Technically Sanctioned For Rs. 48,10,948.00

(Rupees forty eight Lacs Ten thousand

nine hundred forty eight Only.

28  
29/4/22  
AE, circle

328

अधीक्षण अभियन्ता  
ग्रामीण कार्य विभाग  
कार्य अंचल, किशनगंज

# ESTIMATE FOR REPAIRING / RESTORATION/ MAKING MOTORABLE ROADS DAMAGED DURING FLOOD

## Phaes-1

|                     |                                                                                                                                                                                     |                                   |              |        |             |                    |          |            |              |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|--------|-------------|--------------------|----------|------------|--------------|
| NAME OF ROAD :-     |                                                                                                                                                                                     | Baluwa Tappu tola to Bangali tola |              |        |             |                    |          |            |              |
| DISTRICT :-         |                                                                                                                                                                                     | Araria                            |              |        |             |                    |          |            |              |
| BLOCK :-            |                                                                                                                                                                                     | Araria                            |              |        |             |                    |          |            |              |
| Length of Cutting:- |                                                                                                                                                                                     | 126.50 Km                         |              |        |             |                    |          |            |              |
| Sl. No.             | DESCRIPTION OF ITEMS                                                                                                                                                                | Unit                              | Nos.         | L(m)   | B(m)        | D(m)               | QUANTITY | RATE (Rs.) | AMOUNT (Rs.) |
| 1                   | Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge                                          |                                   |              |        |             |                    |          |            |              |
|                     | At ch:-10 m                                                                                                                                                                         | cum                               | 1            | 11.70  | (7.5+9.5)/2 | (0.75+2.5+0.85)/3  | 135.92   |            |              |
|                     | At ch:-50 m                                                                                                                                                                         | cum                               | 1            | 19.00  | (7.5+9.5)/2 | (1.5+2.5+0.85)/3   | 261.09   |            |              |
|                     | At ch:-150 m                                                                                                                                                                        | cum                               | 1            | 27.60  | (7.5+9.5)/2 | (0.75+2.65+0.85)/3 | 332.35   |            |              |
|                     | At ch:-200m                                                                                                                                                                         | cum                               | 1            | 68.20  | (4.5+6.5)/2 | (0.95+2.65+0.85)/3 | 556.40   |            |              |
|                     |                                                                                                                                                                                     | cum                               | total qty :- |        |             |                    | 1285.76  | 514.43     | 661430.94    |
| 2                   | Labour for cutting 62 mm to 75mm dia bamboo piles to size and making shoes & driving by jet machine etc. all complete job as per specification & direction of Engineer- in -charge. |                                   |              |        |             |                    |          |            |              |
|                     | At ch:-10 m                                                                                                                                                                         |                                   | 1            | 46.80  | 4.50        |                    | 210.60   |            |              |
|                     | At ch:-50 m                                                                                                                                                                         |                                   | 1            | 95.00  | 4.50        |                    | 427.50   |            |              |
|                     | At ch:-150 m                                                                                                                                                                        |                                   | 1            | 110.40 | 4.50        |                    | 496.80   |            |              |
|                     |                                                                                                                                                                                     | Mtr.                              | total qty:-  |        |             |                    | 1134.90  | 55.40      | 62,873.46    |
|                     |                                                                                                                                                                                     |                                   |              |        |             |                    |          |            |              |
|                     |                                                                                                                                                                                     |                                   |              |        |             |                    |          |            |              |

| Sl. No. | DESCRIPTION OF ITEMS                                                                                                                                                                                                                                        | Unit | Nos.              | L(m)         | B(m)        | D(m)              | QUANTITY | RATE (Rs.) | AMOUNT (Rs.) |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|--------------|-------------|-------------------|----------|------------|--------------|
| 3       | Labour for fitting & fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I wire including cost of G.I wire or nails etc all complete job as per specification & direction of Engineer-in-charge. |      |                   |              |             |                   |          |            |              |
|         | At ch:-10 m                                                                                                                                                                                                                                                 |      | 1                 | 4.00         | 11.70       |                   | 46.80    |            |              |
|         | At ch:-50 m                                                                                                                                                                                                                                                 |      | 1                 | 3.00         | 19.00       |                   | 57.00    |            |              |
|         | At ch:-150 m                                                                                                                                                                                                                                                |      | 1                 | 3.00         | 27.60       |                   | 82.80    |            |              |
|         |                                                                                                                                                                                                                                                             | Mtr. |                   | total qty :- |             |                   | 186.60   | 30.87      | 5760.34      |
| 4       | Supplying of EC bag, filling of local sand stitching and placing in position as the direction of Engineer-in-charge.                                                                                                                                        |      |                   |              |             |                   |          |            |              |
|         | At ch:-10 m                                                                                                                                                                                                                                                 | cum  | 1                 | 11.70        | (2.5+1.5)/2 | (1.85+2.95+2.7)/3 | 58.50    |            |              |
|         | At ch:-50 m                                                                                                                                                                                                                                                 | cum  | 1                 | 19.00        | (2+0.9)/2   | (1.5+2.25+2.25)/3 | 55.10    |            |              |
|         | At ch:-150 m                                                                                                                                                                                                                                                | cum  | 1                 | 27.60        | (2.5+1.5)/2 | (2.5+2.85+1.75)/3 | 130.64   |            |              |
|         | Total No of E C Bags(3.4cum=100Bags) =                                                                                                                                                                                                                      |      |                   | 244.24       | /           | 0.034             | 7184.00  |            |              |
|         |                                                                                                                                                                                                                                                             | Each | Say No of Bage :- |              |             |                   | 7184.00  | 38.03      | 273207.520   |
| 5       | Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.                                                                                                                                             |      |                   |              |             |                   |          |            |              |
|         | At ch:-10 m                                                                                                                                                                                                                                                 | cum  | 1                 | 11.70        | (7.5+7.5)/2 | (0.85+1.5+1.25)/3 | 105.30   |            |              |
|         | At ch:-50 m                                                                                                                                                                                                                                                 | cum  | 1                 | 19.00        | (7.5+7.5)/2 | (0.85+1.5+0.65)/3 | 142.50   |            |              |

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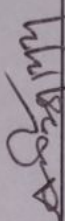
E.S.

Kishanganj

# ESTIMATE FOR REPAIRING / RESTORATION/ MAKING MOTORABLE ROADS DAMAGED DURING FLOOD

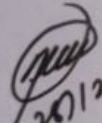
## Phaes-2

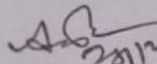
|                     |                                                                                                                                            |                                   |      |       |              |                    |          |            |              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|-------|--------------|--------------------|----------|------------|--------------|
| NAME OF ROAD :-     |                                                                                                                                            | Baluwa Tappu tola to Bangali tola |      |       |              |                    |          |            |              |
| DISTRICT :-         |                                                                                                                                            | Araria                            |      |       |              |                    |          |            |              |
| BLOCK :-            |                                                                                                                                            | Araria                            |      |       |              |                    |          |            |              |
| Length of Cutting:- |                                                                                                                                            | 89.00                             |      | Mtr   |              |                    |          |            |              |
| Sl. No.             | DESCRIPTION OF ITEMS                                                                                                                       | Unit                              | Nos. | L(m)  | B(m)         | D(m)               | QUANTITY | RATE (Rs.) | AMOUNT (Rs.) |
| 1                   | Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge |                                   |      |       |              |                    |          |            |              |
|                     | At ch:-10 m                                                                                                                                | cum                               | 1    | 8.00  | (7.5+9.5)/2  | (1.5+2.5+1.25)/3   | 119.00   |            |              |
|                     | At ch:-50 m                                                                                                                                | cum                               | 1    | 14.00 | (7.5+9.5)/2  | (1.25+2.25+0.95)/3 | 176.52   |            |              |
|                     | At ch:-150 m                                                                                                                               | cum                               | 1    | 21.00 | (7.5+9.5)/2  | 0.90               | 160.65   |            |              |
|                     | At ch:-200m                                                                                                                                | cum                               | 1    | 46.00 | (4.5+6.5)/2  | 0.95               | 240.35   |            |              |
|                     |                                                                                                                                            | cum                               |      |       | total qty :- |                    | 696.52   | 514.43     | 358309.07    |
| 2                   | Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.                            |                                   |      |       |              |                    |          |            |              |
|                     | At ch:-10 m                                                                                                                                | cum                               | 1    | 8.00  | (7.5+8.5)/2  | 0.90               | 57.60    |            |              |
|                     | At ch:-50 m                                                                                                                                | cum                               | 1    | 14.00 | (7.5+7.5)/2  | 0.75               | 78.75    |            |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |              |       |             |      |                |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|-------|-------------|------|----------------|------------|
| At ch:-150 m                                                                                                                                                                                                                                                                                                                                                                                                                           | cum | 1            | 21.00 | (7.5+8.5)/2 | 0.90 | 151.20         |            |
| At ch:-200m                                                                                                                                                                                                                                                                                                                                                                                                                            | cum | 1            | 46.00 | (4.5+5.5)/2 | 0.95 | 218.50         |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        | cum | total qty :- |       |             |      | 506.05         | 2,168.72   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |              |       |             |      |                |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |              |       |             |      | A) SUB TOTAL = | 1455789.82 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |              |       |             |      | TOTAL COST =   | 1455789.82 |
| <div style="display: flex; justify-content: space-between;"> <div> <br/> Junior Engineer </div> <div> <br/> Asstt. Engineer </div> <div> <br/> Executive Engineer </div> </div> |     |              |       |             |      |                |            |

### Calculation of Seigniorage Fees

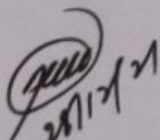
|                 |                                                                                                                                                                                                                                                                                 |                                   |      |            |              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|------------|--------------|
| NAME OF ROAD :- |                                                                                                                                                                                                                                                                                 | Baluwa Tappu tola to Bangali tola |      |            |              |
| DISTRICT :-     |                                                                                                                                                                                                                                                                                 | Araria                            |      |            |              |
| BLOCK :-        |                                                                                                                                                                                                                                                                                 | Araria                            |      |            |              |
| Sl. No.         | DESCRIPTION OF ITEMS                                                                                                                                                                                                                                                            | QUANTITY                          | Unit | RATE (Rs.) | AMOUNT (Rs.) |
| 1               | Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge                                                                                                                                      | 1982.27                           | cum  | 141.85     | 281185.24    |
| 2               | Labour for fitting empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m X 1 m X 1 m )with lead of 150 M including supply of sutli etc. at site in dry portion all complete as per approved design, specification and direction of E/I | 0.00                              | cum  | 141.85     | 0.00         |
| 3               | Supplying of EC bag, filling of local sand stitching and placing in position as the direction of Engineer-in-charge.                                                                                                                                                            | 244.26                            | cum  | 141.85     | 34647.71     |
| 4               | Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.                                                                                                                                                                 | 1238.73                           | cum  | 1050.00    | 1300670.00   |
|                 |                                                                                                                                                                                                                                                                                 | A) SUB TOTAL =                    |      |            | 1616502.95   |
|                 | Seigniorage Fees @10% of Basic Amount =                                                                                                                                                                                                                                         |                                   |      |            | 161650       |

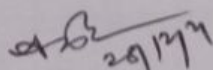
  
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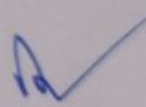
  
28/12/21  
A.E

  
E.E

| Bill of Quantity  |                                                                                                                                                                                                                                                             |                                   |      |            |              |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|------------|--------------|
| Phase-1 & Phase-2 |                                                                                                                                                                                                                                                             |                                   |      |            |              |
| NAME OF ROAD :-   |                                                                                                                                                                                                                                                             | Baluwa Tappu tola to Bangali tola |      |            |              |
| DISTRICT :-       |                                                                                                                                                                                                                                                             | Araria                            |      |            |              |
| BLOCK :-          |                                                                                                                                                                                                                                                             | Araria                            |      |            |              |
| Sl. No.           | DESCRIPTION OF ITEMS                                                                                                                                                                                                                                        | QUANTITY                          | unit | RATE (Rs.) | AMOUNT (Rs.) |
| 1                 | Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge                                                                                                                  | 1982.27                           | cum  | 514.43     | 1019740.01   |
| 2                 | Labour for cutting 62 mm to 75mm dia bamboo piles to size and making shoes & driving by jet machine etc. all complete job as per specification & direction of Engineer- in -charge.                                                                         | 1134.90                           | m    | 55.40      | 62873.46     |
| 3                 | Labour for fitting & fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I wire including cost of G.I wire or nails etc all complete job as per specification & direction of Engineer-in-charge. | 186.60                            | m    | 30.87      | 5760.34      |
| 4                 | Supplying of EC bag, filling of local sand stitching and placing in position as the direction of Engineer-in-charge.                                                                                                                                        | 7184.00                           | no   | 38.03      | 273207.52    |
| 5                 | Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.                                                                                                                                             | 1238.73                           | cum  | 2168.72    | 2686465.75   |
| 6                 | Supplaying and carriage of hume pipe 1000 mm dia , all complete job.                                                                                                                                                                                        | 15.00                             | m    | 4425.07    | 66376.05     |
|                   |                                                                                                                                                                                                                                                             | A) SUB TOTAL =                    |      |            | 4114423.14   |
|                   |                                                                                                                                                                                                                                                             | TOTAL COST =                      |      |            | 4114423      |

  
J.E

  
A.E

  
E.E

| RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL |                       |         |           |                     |      |         |           |                                   |      |        |                     |               |               |
|---------------------------------------------|-----------------------|---------|-----------|---------------------|------|---------|-----------|-----------------------------------|------|--------|---------------------|---------------|---------------|
| DISTRICT :-                                 |                       |         |           | Name of Road        |      |         |           | Baluwa Tappu tola to Bangali tola |      |        |                     |               |               |
| Araria                                      |                       |         |           | Block :-            |      |         |           | Araria                            |      |        |                     |               |               |
| Description of Items                        |                       |         |           | Carriage By Tractor |      |         |           |                                   |      |        |                     |               |               |
| Sr. No.                                     | Source                | Unit    | Capacity  | Haulage             | Lead | Total   | Capacity  | Haulage                           | Lead | Total  | Loading + Unloading | Rail Carriage | Carriage Cost |
| 1                                           | Hume Pipe 1000 mm Dia | M       | 8/22.5    | 6.83                | 115  | 628.36  | 8/22.5    | 16.54                             | 0.00 | 0.00   | 70.46               |               | 698.82        |
| 2                                           | Hume Pipe 600 mm Dia  | M       | 8/52.50   | 6.83                | 115  | 119.69  | 8/52.50   | 16.54                             | 0.00 | 0.00   | 30.20               |               | 149.89        |
| 3                                           | Bamboo                | % Nos   | 3.60/1.35 | 17.03               | 5    | 227.07  | 3.60/1.35 | 26.60                             | 5.00 | 354.67 | 2224.00             |               | 2805.73       |
| 4                                           | E.C Bag               | cum     | 3.60/2.25 | 17.03               | 2    | 54.50   | 3.60/2.25 | 26.60                             | 1    | 42.56  | 97.82               |               | 194.38        |
| 5                                           | Stone Metal gr-II     | cum     | 8/4.99    | 6.83                | 120  | 1313.99 | 8/4.99    | 16.54                             | 0.00 | 0.00   | 180.88              |               | 1494.87       |
| 6                                           | Stone Metal gr-II     | cum     | 8/4.99    | 6.83                | 120  | 1313.99 | 8/4.99    | 16.54                             | 0    | 0.00   | 180.88              |               | 1494.87       |
| 7                                           | Brick Bats            | 800 Nos | 3.60/2.25 | 17.03               | 7    | 190.74  | 3.60/2.25 | 26.60                             | 1    | 42.56  | 180.88              |               | 414.13        |
| 8                                           | Local Sand            | cum     | 3.60/2.25 | 17.03               | 2    | 54.50   | 3.60/2.25 | 26.60                             | 1    | 42.56  | 97.82               |               | 194.83        |

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