



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## FLOOD DAMAGE REPORT

### DETAIL ESTIMATE OF RESTAURATION WORK

YEAR (2021- 2022)

DISTRICT :- BHOJPUR

DIVISION :- ARA

BLOCK :- AGIAON

|                       |    |                  |
|-----------------------|----|------------------|
| NAME OF ROAD          | :- | T03 TO CHAPRAPUR |
| LENGTH OF ROAD        | :- | 1.69 K.M         |
| YEAR OF RESTORATION   | :- | 2021-22          |
| COST OF RESTORATION   | :- | Rs 492600.00     |
| TOTAL COST OF PROJECT | :- | Rs. 4.93 Lacs    |

SUBMITTED BY :-

EXECUTIVE ENGINEER

RURAL WORKS DIVISION ARA

BHOJPUR

| Sl No | District | Division | Road Name                  | Scheme | Road Status | Ic Maintained (N/A/N) | Ic Agreed (N/A/N) | Length In Km.) | Length of Damage Part Due to Flood | Tentative Rejection n Amount In Lac) | Actual Rejected Amount In Lac) | Remarks      | Old Year | Old Latitude | Old Longitude | Old Elevation | Old Longitude | Old Elevation |
|-------|----------|----------|----------------------------|--------|-------------|-----------------------|-------------------|----------------|------------------------------------|--------------------------------------|--------------------------------|--------------|----------|--------------|---------------|---------------|---------------|---------------|
| 1     | Bhopal   | Ar       | PWT Road - Tarnahal        | New NR | Completed   | No                    | No                | 1.53           | 0.3                                | 7                                    | 0                              | Departmental | 2021-22  | 24.336556    | 84.678033     | 24.336556     | 84.678033     | 24.336556     |
| 2     | Bhopal   | Ar       | TU2-Chhapaur               | New NR | Completed   | No                    | No                | 1.7            | 0.3                                | 10                                   | 0                              | Departmental | 2021-22  | 24.336556    | 84.678033     | 24.336556     | 84.678033     | 24.336556     |
| 3     | Bhopal   | Ar       | 1052-TD to Madanpur (VR52) | New NR | Completed   | No                    | No                | 2              | 0.3                                | 7                                    | 0                              | Departmental | 2021-22  | 24.336556    | 84.678033     | 24.336556     | 84.678033     | 24.336556     |

## तकनीकी प्रतिवेदन

जिला : भोजपुर

योजना का नाम : T03 से छपरापुर पथ में रेस्टोरेसन का कार्य।

पथ की लम्बाई : 1.69 कि० मी०।

प्राक्कलित राशि : 4.88 लाख।

प्रस्तुत प्राक्कलन उपरोक्त कार्य हेतु तैयार किया गया है। यह पथ नारायणपुर कारवासीन पथ से छपरापुर ग्राम को जोड़ने वाला एकमात्र पथ है। छपरापुर ग्राम की पुरी आबादी इसी पथ पर निर्भर है। इस पथ के किनारे से एक करहा का पानी बहता है। विगत दिनों में हुई भारी वर्षा के कारण इस पथ को कॉफी क्षति पहुँची है। इस पथ का कुछ पथांश ध्वस्त हो चुका था। यातायात अवरुद्ध था, पथ में बड़े बड़े गढे हो गये थे। पथ में सुगम यातायात हेतु ईट का टुकड़ा डालकर पथ को चालु किया गया है। यह कार्य विभागीय स्तर पर किया गया है।

यह प्राक्कलन, कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमण्डल आरा के निदेश पर तैयार किया गया है। प्राक्कलन में प्रयुक्त दर वर्तमान अनुसूचि दर ( 01.04.2021 से प्रभावी ) पर आधारित है। कार्य हित में तकनीकी एवं प्रशासनिक अनुमोदन अपेक्षित है।



कनीय अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रशाखा अगियॉव।



सहायक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य अवर प्रमण्डल अगियॉव।



कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमण्डल आरा।

F.D.R

YEAR- 2021-22

## RESTAURATION WORK

### GENERAL ABSTRACT OF COST

District : BHOJPUR  
Block : AGIAON  
Name of Road : T02 TO CHAPRAPUR  
Length of Road : 1.69 K.M

| SL. | Item of Work              | Amount |                               |
|-----|---------------------------|--------|-------------------------------|
| 1   | TOTAL COST OF RESTORATION | =      | <del>4,92,609.11</del> 414841 |
| 2   | COST OF OTHER WORK        | =      | 0.00                          |
|     | SUB TOTAL                 | =      | <del>4,92,609.11</del>        |
|     | Total Cost of Project     | Rs.    | <del>4,92,609.11</del>        |
|     | SAY                       | Rs.    | <del>4,92,600.00</del> 414841 |

Say Rs. 4,14,841/-

*[Signature]*  
15/07/21

Junior Engineer

RWD WORKS SECTION

AGIAON

*[Signature]*  
26/7/2021

Asstt. Engineer

RWD WORKS SUB-DIVISION

AGIAON

*[Signature]*  
26/07/21

Executive Engineer

RWD WORKS DIVISION

ARA

Previously in anticipation of addn. approval & pos. pwr. technically sanctioned for Rs. 4,14,841/- (Rupees four lac fourteen Thousand Eight hundred only)

*[Signature]*  
31/7/21  
Superintending Engineer  
Rural Works Department  
Works Circle, ARA

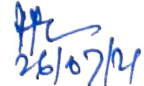
## SUMMARY OF COST FOR THE FDR PROJECT

|                          |   |                  |
|--------------------------|---|------------------|
| NAME OF ROAD             | : | T02 TO CHAPRAPUR |
| DISTRICT                 | : | BHOJPUR          |
| BLOCK                    | : | AGIAON           |
| CONSTITUENCY             | : | AGIAON           |
| LENGTH OF ROAD (in Km)   | : | 1.69 K.M         |
| LENGTH OF BT PAVEMENT    | : | 1.26 K.M         |
| LENGTH OF CC PAVEMENT    | : | 0.43 K.M         |
| No. of Habitation Served | : | 1                |

| Sl. No.  | DESCRIPTION                              | AMOUNT (LAKHS)                   |
|----------|------------------------------------------|----------------------------------|
| <b>1</b> | <b>MAIN WORK</b>                         |                                  |
| I        | PREPARATORY WORKS =                      | 0.00                             |
| II       | BRICK BATS WORK =                        | <del>3589.59</del> = 427780.47   |
|          | TOTAL =                                  | <del>3589.59</del> = 427780.47   |
|          | Add 12% GST on Total Amount =            | <del>43075.31</del> = 51333.66   |
|          | Add 1% Labour Cess on Total Amount =     | <del>3590.24</del> = 4277.80     |
|          | Seigniorage Fees @ 10% =                 | 9217.18 ✓                        |
|          | <b>SUB TOTAL (A) =</b>                   | <del>414841.20</del> = 492609.11 |
| <b>2</b> | <b>CROSS DRAINAGE STRUCTURES</b>         |                                  |
| I        | HUME PIPE =                              | 0.00                             |
| II       | RCC =                                    | 0.00                             |
| III      | BOX =                                    | 0.00                             |
| IV       | Utility Pipe (300 mm Dia) =              | 0.00                             |
| V        | DISMANTLING OF CD =                      | 0.00                             |
| VI       | REPAIR OF CD WORK =                      | 0.00                             |
|          | TOTAL =                                  | 0.00                             |
|          | Add 12% GST on Total Amount =            | 0.00                             |
|          | Add 1% Labour Cess on Total Amount =     | 0.00                             |
|          | Seigniorage Fees @ 10% =                 | 0.00                             |
|          | <b>SUB TOTAL (B) =</b>                   | 0.00                             |
|          | <b>TOTAL COST OF RESTORATION (A+B) =</b> | <del>414841.20</del> = 492609.11 |

  
**Junior Engineer**  
 RWD WORKS SECTION  
 AGIAON

  
**Asstt. Engineer**  
 RWD WORKS SUB-DIVISION  
 AGIAON

  
**Executive Engineer**  
 RWD WORKS DIVISION  
 ARA

## DETAIL ESTIMATE OF FDR

**Name of Site:** T02 TO CHAPRAPUR

RCD Brick Bats

Providing and filling Brick Bats in ditches including cost of Brick Bats and labour all Complete Job as per specification and direction of E/L.

| 1st KM              |            |       |      |     |      |     |                           |                 |                    |
|---------------------|------------|-------|------|-----|------|-----|---------------------------|-----------------|--------------------|
|                     | Cum        | 10.00 | 1.55 | Avg | 0.90 | Avg | 13.95                     |                 |                    |
|                     | Cum        | 14.50 | 2.05 | Avg | 0.75 | Avg | 22.29                     |                 |                    |
|                     | Cum        | 8.50  | 1.55 | Avg | 0.60 | Avg | 7.91                      |                 |                    |
|                     | Cum        | 9.50  | 2.00 | Avg | 0.90 | Avg | 17.10                     |                 |                    |
| 2nd KM              | Cum        | 7.50  | 1.50 | Avg | 0.45 | Avg | 5.06                      |                 |                    |
|                     | Cum        | 9.50  | 1.85 | Avg | 0.75 | Avg | 13.18                     |                 |                    |
|                     | Cum        | 12.50 | 2.50 | Avg | 0.60 | Avg | 18.75                     |                 |                    |
|                     | Cum        | 9.00  | 2.10 | Avg | 0.75 | Avg | 14.18                     |                 |                    |
|                     | Cum        | 7.00  | 2.15 | Avg | 0.75 | Avg | 11.29                     |                 |                    |
|                     | Cum        | 8.50  | 2.50 | Avg | 0.30 | Avg | 6.38                      |                 |                    |
|                     | Cum        | 10.50 | 2.50 | Avg | 0.90 | Avg | 23.63                     |                 |                    |
|                     | Cum        | 7.50  | 2.60 | Avg | 0.75 | Avg | 14.63                     |                 |                    |
|                     | Cum        | 10.50 | 1.90 | Avg | 0.75 | Avg | 14.96                     |                 |                    |
|                     | Cum        | 12.50 | 2.05 | Avg | 0.60 | Avg | 15.38                     | 1306.81         | 358959.20          |
| <b>Net Quantity</b> | <b>Cum</b> |       |      |     |      |     | <b>198.67</b>             | <b>2,153.25</b> | <b>4,27,780.47</b> |
|                     |            |       |      |     |      |     | <b>TOTAL COST IN RS.=</b> |                 |                    |
|                     |            |       |      |     |      |     | <b>4,27,780.47</b>        |                 |                    |

358959.20

*[Signature]*  
15/07/21

**Junior Engineer**  
RWD WORKS SECTION  
AGIAON

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26/7/2021

**Asstt. Engineer**  
RWD WORKS SUB-DIVISION  
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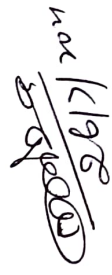
**Executive Engineer**  
RWD WORKS DIVISION  
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23.11.2021

**Executive Engineer**  
R.W.D. (W.) Div., Buxar

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 18/07/21

  
 26/7/2021

  
 26/07/21

ANALYSIS OF CARRAIGE BY ROAD

District : BHOJPUR      Block :    AGIAON  
Name of Road : T02 TO CHAPRAPUR  
Cost of Haulage Excluding Loading & Unloading as per SOR

| Type of Road          | Per Ton. Km by Truck |
|-----------------------|----------------------|
| For Surface Road      | 9.09                 |
| Unsurface Gravel Road | 11.00                |
| Kachha Road           | 22.13                |

| Sl. | Item with Source | Unit | Source Up to | Carriage Cost & Lead in Km |   |      |   |         |   |           |              |   |       |   |         | Loading & Unloading Cost | Total |   |            |
|-----|------------------|------|--------------|----------------------------|---|------|---|---------|---|-----------|--------------|---|-------|---|---------|--------------------------|-------|---|------------|
|     |                  |      |              | Pukka / Surface            |   |      |   |         |   | Katcha    |              |   |       |   |         |                          |       |   |            |
|     |                  |      |              | 8.00<br>2.00               | x | 9.09 | x | 7.00 Km | = | Rs 254.50 | 8.00<br>2.00 | x | 22.13 | x | 1.00 Km |                          |       | = | Rs 88.51   |
| 1   | Brick            | 1000 | Local        |                            |   |      |   |         |   |           |              |   |       |   |         |                          |       |   | Rs. 865.47 |
|     |                  |      |              |                            |   |      |   |         |   |           |              |   |       |   |         |                          |       |   | Rs. 865.47 |

15/07/21

26/10/21

26/10/21

# HAULAGE BY TRUCK

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit         | Quantity       | Rate               | Amount in Rs                                           |
|---------|-------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|--------------------|--------------------------------------------------------|
| 1       | 1.10        | (i)          | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km<br><b>Case-I : Surfaced Road</b><br>Speed with load: 25 km per hour<br>Speed while returning empty: 35 km per hour<br><b>Machinery</b><br><b>Tipper 10 t capacity</b><br>Haulage with load<br>Empty return trip<br>Overheads @ 12 % on (a)<br>Contractor's profit on (a+b)<br>Cost for 100 t-km = a+b<br><b>Rate per cum = (a+b) / 100</b>  | hour<br>hour | 0.400<br>0.286 | 1183.00<br>1183.00 | 473.20<br>338.34<br>97.38<br>0.00<br>908.92<br>9.09    |
|         |             |              | <b>Rate Per Km.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Cum</b>   |                |                    | <b>9.09</b>                                            |
| 2       | 1.10        | (ii)         | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km<br><b>Case-II: Unsurfaced Gravel Road.</b><br>Speed with load: 20 km/hour<br>Speed for empty return trip: 30 km/hour<br><b>Machinery</b><br><b>Tipper 10 t capacity</b><br>Haulage with load<br>Empty return trip<br>Overheads @ 12% on (a)<br>Contractor's profit on (a+b)<br>Cost for 100 t-km = a+b<br><b>Rate per cum = (a+b) / 100</b> | hour<br>hour | 0.50<br>0.33   | 1183.00<br>1183.00 | 591.50<br>390.39<br>117.83<br>0.00<br>1099.72<br>11.00 |
|         |             |              | <b>Rate Per Km.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Cum</b>   |                |                    | <b>11.00</b>                                           |
| 3       | 1.10        | (iii)        | <b>Haulage excluding Loading &amp; Unloading</b><br>Haulage of materials by tipper excluding cost of loading, unloading and stacking.<br>Unit = t.km<br>Taking output 10 t load and lead 10 km = 100 t.km                                                                                                                                                                                                                                                                                                                                             |              |                |                    |                                                        |

| Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. |     |                                                                                                                                                                                                                      |                   |                                        |                                                                  |
|-------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------|------------------------------------------------------------------|
|                                                                         |     | Speed with load: 10 km per hour<br>Speed while returning empty: 15 km per hour                                                                                                                                       |                   |                                        |                                                                  |
| a)                                                                      |     | <b>Machinery</b><br><b>Tipper 10 t capacity</b><br>Haulage with load<br>Empty return trip<br>Overheads @ 12 % on (a)<br>Contractor's profit on (a+b)<br>Cost for 100 t-km = a+b<br><b>Rate per cum = (a+b) / 100</b> | hour<br>hour      | 1.00<br>0.67<br><br>1183.00<br>1183.00 | 1183.00<br>792.61<br>237.07<br>0.00<br>2212.68<br>22.13<br>22.13 |
|                                                                         |     |                                                                                                                                                                                                                      | <b>Cum</b>        |                                        |                                                                  |
| 4                                                                       | 1.3 | <b>Loading, Unloading and Stacking of Bricks by Manual Means</b><br>Loading of Bricks by manual means including a lead upto 30 m<br>Unit = 1000 Nos.<br>Taking output = 2000 Nos.                                    |                   |                                        |                                                                  |
| a)                                                                      |     | <b>Labour</b><br>Mate<br>Mazdoor (Unskilled)                                                                                                                                                                         | day<br>day        | 0.01<br>0.25<br><br>310.00<br>292.00   | 3.10<br>73.00<br>76.10                                           |
| b)                                                                      |     | <b>Machinery</b><br>Truck                                                                                                                                                                                            | hour              | 0.33<br><br>1183.00                    | 390.39<br>390.39<br>55.98<br>0.00<br>522.47<br>261.23            |
| c)                                                                      |     | Overheads 12 % on (a+b)                                                                                                                                                                                              |                   |                                        |                                                                  |
| d)                                                                      |     | Contractor's profit @ 10% on (a+b+c)<br>Cost for 2000 Nos. = (a+b+c+d)<br><b>Rate for 1000 bricks = (a+b+c) / 2</b>                                                                                                  |                   |                                        |                                                                  |
|                                                                         |     |                                                                                                                                                                                                                      | <b>Total Cost</b> | <b>Nos</b>                             | <b>261.23</b>                                                    |
| 5                                                                       | 1.3 | <b>(ii)</b><br>Unloading and Stacking of Bricks by manual means including a lead upto 30 m<br>Unit = 1000 Nos.<br>Taking output = 2000 Nos.                                                                          |                   |                                        |                                                                  |
| a)                                                                      |     | <b>Labour</b><br>Mate<br>Mazdoor (Unskilled)                                                                                                                                                                         | day<br>day        | 0.01<br>0.25<br><br>310.00<br>292.00   | 3.10<br>73.00<br>76.10                                           |
| b)                                                                      |     | <b>Machinery</b><br>Truck                                                                                                                                                                                            | hour              | 0.33<br><br>1183.00                    | 390.39<br>390.39<br>55.98                                        |
| c)                                                                      |     | Overheads 12% on (a+b)                                                                                                                                                                                               |                   |                                        |                                                                  |

|   |     |          |                                                                                                                                                                                                  |            |     |                                                                |          |
|---|-----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|----------------------------------------------------------------|----------|
| 6 | RCD | 11.9 (A) | Contractor's profit @ 10% on (a+b+c)<br>Cost for 2000 Nos. = (a+b+c+d)<br>Rate for 1000 bricks = (a+b+c)/2                                                                                       | Total Cost | Nos | Total Loding & Unloading of Brick Per 1000 = 261.23 + 261.23 = | 522.46   |
|   |     |          | <b>BRICK BATS</b><br>Providing and filling Brick Bats in ditches including cost of Brick Bats and labour all complete job as per specification and direction of E/I.<br><b>For 1 Cum=1.5 Cum</b> |            |     |                                                                |          |
|   |     | a)       | Labour                                                                                                                                                                                           |            | Day | 1.80                                                           | 525.60   |
|   |     | b)       | Mazdoor (Unskilled)                                                                                                                                                                              |            | Cum | 1.50                                                           | 1,546.50 |
|   |     | c)       | Material                                                                                                                                                                                         |            |     |                                                                |          |
|   |     |          | Brick Bats                                                                                                                                                                                       |            |     |                                                                |          |
|   |     | d)       | Carriage Cost                                                                                                                                                                                    |            | No  | 450.00                                                         | 389.46   |
|   |     |          | No of Bricks Per Cum 300 Nos ( 850 for 100cft)                                                                                                                                                   |            |     |                                                                | 248.65   |
|   |     |          | Overheads @ 12% on (a+b)                                                                                                                                                                         |            |     |                                                                | 2710.21  |
|   |     |          | <b>Total Cost (A)</b>                                                                                                                                                                            |            |     |                                                                | 1806.81  |
|   |     |          | <b>Rate Per Cum=(a+b+c+d)/1.5</b>                                                                                                                                                                |            |     |                                                                |          |
|   |     | WRD      | Labour for laying dry graded Jhama Khoa for stone filter under brick pitching or                                                                                                                 |            |     |                                                                |          |
|   |     | BIHAR    | boulder pitching in slope or including light ramming etc. all complete job as per                                                                                                                |            |     |                                                                |          |
|   |     | 6.61     | approved design and direction of E/I                                                                                                                                                             |            |     |                                                                |          |
|   |     | (B)      | Unit- Cum                                                                                                                                                                                        |            |     |                                                                |          |
|   |     |          | Taking Output=2.832 Cum                                                                                                                                                                          |            |     |                                                                |          |
|   |     | a)       | Labour                                                                                                                                                                                           |            | Day | 3.00                                                           | 876.00   |
|   |     |          | Mazdoor (Unskilled)                                                                                                                                                                              |            |     |                                                                | 105.12   |
|   |     | b)       | Overheads @ 12% on (a)                                                                                                                                                                           |            |     |                                                                | 981.12   |
|   |     |          | <b>Total Cost (B)</b>                                                                                                                                                                            |            |     |                                                                | 346.44   |
|   |     |          | <b>Rate Per Cum (B)/2.832</b>                                                                                                                                                                    |            |     |                                                                | 2153.25  |
|   |     |          | <b>Total Cost of Brick Bats Per Cum (A+B)</b>                                                                                                                                                    |            |     |                                                                |          |

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## F.D.R (2021-22)

Name of Site

T02 TO CHAPRAPUR

BLOCK

AGIAON

DIVISION

RWD ARA

Latitude: 25.334156  
Longitude: 84.620366  
Elevation: 129.45±4 m  
Accuracy: 3.1 m  
Time: 06-29-2021 15:39  
Note: Chaprapur

Powered by NoteCam

Latitude: 25.3342  
Longitude: 84.620338  
Elevation: 118.63±5 m  
Accuracy: 2.9 m  
Time: 07-07-2021 14:23  
Note: Chaprapur

Powered by NoteCam

*[Signature]*  
15/07/21

*[Signature]*  
26/7/2021

*[Signature]*  
26/07/21



Latitude: 25.334166  
Longitude: 84.620196  
Elevation: 45.51±18 m  
Accuracy: 4.3 m  
Time: 08-07-2021 12:20  
Note: Chhapra pur

Powered by NoteCam



Latitude: 25.334199  
Longitude: 84.620264  
Elevation: 128.07±6 m  
Accuracy: 2.8 m  
Time: 06-29-2021 15:40  
Note: Chaprapur

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15/07/21

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26/7/21

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26/07/21