

# RURAL WORKS DEPARTMENT



**GOVERNMENT OF BIHAR**

**CIRCLE – R.W.D Works Circle, Chapra**

**DVISION – R.W.D Works Division, Marhaura**

**Name of Work** – ~~Restoration~~ Restoration/Motrable of Road from near bridge to Jagdeo Kushwaha ka ghar

**Block** - Amnaur

**Estimated Cost** - Rs 912253.42

2020-21

# Inspection Report for Flood damage work

Date:

1. Name of PIUs- E.E R W D (W) Morekum

2. Name of Block/Road- Anwar - Motorable of Road from near bridge to Jagdeo Kishoreda Kachher.

## A. For Road

1. Damage Location/Chainage : 0+60 K.Y.

2. Damage Length : 0.161

3. Nature of Damage :

4. Details of Restoration : Road cut due to heavy flood rain & flood.

i Material being used in Restoration Bricks, Ball & Sand filling work etc

ii Equipment/Tools being used in Restoration works: Trencher, Roller, JCB etc

iii Procedure taken up in Restoration works : Bricks Ball & Sand filling & compaction

iv Restored Length : 161

## B. For Bridge

1. Damage Location/Chainage :

2. Damage Length :

3. Nature of Damage :

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

Signature  
Pr. Akhilesh Kumar  
(Name of Inspector)  
E.E.  
RWD (W) Division  
LONEPOR.

## ABSTRACT OF COST

**Name of Work** – Restoration/Mottrable of Road from near bridge to Jagdeo Kushwaha ka ghar

**Block** – Amnaur

| Sl No. | Particulars              | Amount(In Rs)       |
|--------|--------------------------|---------------------|
| A      | Cost of Restoration Work | Rs 807303.91        |
| B      | Add 12% GST on (A)       | Rs 96876.47         |
| C      | Add 1% L.Cess on (A)     | Rs 8073.04          |
|        | <b>Total Cost</b>        | <b>Rs 912253.42</b> |

  
J.E.

RWD

Amnaur

  
A.E.

RWD

Marhaura

  
E.E.

RWD

Marhaura

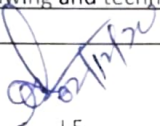
T/A for Rs. 9,12,253.00 (Rupees nine lac twelve thousand two hundred fifty three) only.

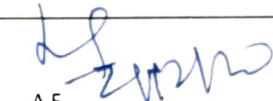
  
अधीक्षण अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, छपरा

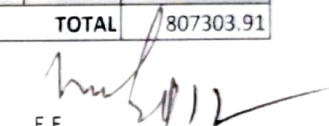
Detailed Estimate

Name of Work - Restoration/Motrable of Road from near bridge to Jagdeo Kushwaha ka ghar

| Sl.No. | Item                                                                                          | S No  | Length | Width | Avg.H/D | Qty   | Unit | Rate    | Amount    |
|--------|-----------------------------------------------------------------------------------------------|-------|--------|-------|---------|-------|------|---------|-----------|
| 1      | Providing laying and spreading brick bats in road ditches all complete as per approved design | 1     | 161    | 5     | 0.5     | 402.5 |      |         |           |
|        |                                                                                               | Total |        |       |         | 402.5 | Cum  | 1909.87 | 768722.68 |
| 2      | Filling and spreading local sand over brick bats as per drawing and technical                 | 1     | 161    | 5     | 0.1     | 80.5  |      |         |           |
|        |                                                                                               | Total |        |       |         | 80.5  | Cum  | 479.27  | 38581.24  |
|        |                                                                                               |       |        |       |         |       |      | TOTAL   | 807303.91 |

  
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(C) Haulage Charge By 3.60 t Tractor capacity

- (i) For Surface Road :- Rs. 18.70 Per t per K.M  
(ii) For Unsurface Road :- Rs. 23.30 Per t per K.M  
(iii) For Kutcha Road :- Rs. 29.20 Per t per K.M

1 CARRIAGE COST OF BRICK BAT

Lead as per Quarry Chart :- 7 P + 1 K

$$\text{Haulage Cost} = \frac{3.60}{2.25} \times [ ( 18.70 \times 7.00 ) + ( 29.20 \times 1.00 ) ] = 256.16$$

$$\text{Unloading} = \quad \quad \quad = \quad \quad \quad = \frac{65.38}{\text{Total per 1000 Nos.} = 321.54}$$

2 CARRIAGE COST OF LOCAL SAND

Lead as per Quarry Chart :- 2 P + 1 K

$$\text{Haulage Cost} = \frac{3.60}{2.25} \times [ ( 18.70 \times 2.00 ) + ( 29.20 \times 1.00 ) ] = 106.56$$

$$\text{Unloading} = \quad \quad \quad = \quad \quad \quad = \frac{40.81}{\text{Total per M}^3 = 147.37}$$

3 CARRIAGE COST OF STEEL

Lead as per Quarry Chart :- 5 P + 0 K

$$\text{Haulage Cost} = \frac{3.60}{3.60} \times [ ( 18.70 \times 5.00 ) + ( 29.20 \times 0.00 ) ] = 93.50$$

$$\text{Loading \& Unloading} = \quad \quad \quad = \quad \quad \quad = \frac{325.46}{\text{Total per Mt} = 418.96}$$

  
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Marhaura  
21/12

## ANALYSIS FOR CARRIAGE OF MATERIAL

(A) Name of the Work :- Restoration/Mottrable of Road from

(B) Haulage Charge By 8 T Capacity Truck

- (i) For Surface Road :- Rs. 7.52 Per t per K.M
- (ii) For Unsurface Toad :- Rs. 9.04 Per t per K.M
- (iii) For Kutcha Road :- Rs. 18.19 Per t per K.M

### 1 CARRIAGE COST OF BAMBOO 62 MM TO 75 MM OF 6 To 8 M LONG

Lead as per Quarry Chart :- 5 P + 5 K

$$\text{Haulage Cost} = \frac{8}{3.00} \times [ ( 7.52 \times 5.00 ) + ( 18.19 \times 5.00 ) ] = 206.09$$

Loading & Unloading =

$$= \frac{2224.00}{}$$

$$\text{Total per \% Nos} = \frac{2430.09}{}$$

$$\text{Total per m} = 3.47$$

### 2 CARRIAGE COST OF STONE BOULDER

Lead as per Quarry Chart :- 180 P + 0 K

$$\text{Haulage Cost} = \frac{8}{4.80} \times [ ( 7.52 \times 180.00 ) + ( 18.19 \times 0.00 ) ] = 2256.00$$

Loading & Unloading =

$$= 196.13$$

$$\text{Total per M}^3 = 2452.13$$

### 3 CARRIAGE COST OF GSB Material

Lead as per Quarry Chart :- 180 P + 0 K

$$\text{Haulage Cost} = \frac{8}{4.99} \times [ ( 7.52 \times 180.00 ) + ( 18.19 \times 0.00 ) ] = 2170.10$$

Loading & Unloading =

$$= 196.13$$

$$\text{Total per M}^3 = 2366.23$$

### 4 CARRIAGE COST OF HUME PIPE ( 1000 MM DIA )

Lead as per Quarry Chart :- 55 P + 0 K

$$\text{Haulage Cost} = \frac{8}{22.5} \times [ ( 7.52 \times 55.00 ) + ( 18.19 \times 0.00 ) ] = 330.88$$

Loading & Unloading =

$$= \frac{76.58}{}$$

$$\text{Total per M} = 407.46$$

### 5 CARRIAGE COST OF HUME PIPE ( 600 MM DIA )

Lead as per Quarry Chart :- 55 P + 0 K

$$\text{Haulage Cost} = \frac{8}{52.50} \times [ ( 7.52 \times 55.00 ) + ( 18.19 \times 0.00 ) ] = 63.02$$

Loading & Unloading =

$$= \frac{32.82}{}$$

$$\text{Total per M} = 95.84$$

# SUMMARY OF CARRIAGE COST OF MATERIAL

Restoration/Motriable of Road from Roy Sahib high school to Dushyant Verma

Name of work

| S.I No. | Name of material          | Unit               | Source       | Mode of Transport | Carriage Charge by Road | Total Carriage up to site |
|---------|---------------------------|--------------------|--------------|-------------------|-------------------------|---------------------------|
|         | 2                         | 3                  | 4            | 5                 | 7                       | 8                         |
| 1       | Bricks Bats               | per m <sup>3</sup> | Local Kiln   | By Road           | 321.54                  | 321.54                    |
| 2       | Fine sand                 | per m <sup>3</sup> | Local source | By Road           | 147.37                  | 147.37                    |
| 3       | Steel                     | per mt             | Local        | By Road           | 418.96                  | 418.96                    |
| 4       | Boulder                   | per m <sup>3</sup> | Sheikhpura   | By Road           | 2452.13                 | 2452.13                   |
| 5       | Stone metal <50 mm        | per m <sup>3</sup> | Sheikhpura   | By Road           | 2366.23                 | 2366.23                   |
| 6       | Hume pipe (1000 mm dia)   | Per metre          | Hajipur      | By Road           | 407.46                  | 407.46                    |
| 7       | Hume pipe (600 mm dia)    | Per metre          | Hajipur      | By Road           | 95.84                   | 95.84                     |
| 8       | Bamboo of 62 to 75 mm dia | Per metre          | Local        | By Road           | 3.47                    | 3.47                      |

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