

# RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

CIRCLE – R.W.D. works Circle, Chapra

DIVISION – R.W.D. works Division , Marhaura

Name of Work - Motrable of Road from Arna Kothi to Kojhi

Block - Amnaur

Estimated cost - Rs 1672727.00

Year : 2020-21

**प्रतिवेदन**

कार्य का नाम :- अनाकोटी से पोशी पथ का मास्मिफिकेशन  
शीर्ष :- FDR  
प्राक्कलित राशि:- 16,72,727.2  
प्रखण्ड का नाम:- अमनौर जिला-सारण।

प्रस्तुत प्राक्कलन शीर्ष PMGSY/MMGSY/GTSNY/NABARD/MR-3054 अर्तगत निर्मित/निर्माणाधीन पथ के गत महीने में इस जिला में आये बाढ़/अतिवृष्टि के कारण क्षतिग्रस्त हुए पथों को चलने लायक (Motarable) बनाने हेतु विभागीय दिशा-निर्देशानुसार कार्यपालक अभियंता, ग्रा0का0वि0, कार्य प्रमंडल मढ़ौरा के दिशा-निर्देशन में कुल रु0 16,72,727.2 के लिए तैयार किया गया है।

आवश्यकतानुसार तत्काल प्रभाव से पथों को चलने लायक बनाने हेतु प्राक्कलन में Bricks Bats, Sand Bag, Hume-Pipe इत्यादी का प्रावधान आवश्यक लम्बाई, चौड़ाई एवं मोटाई में प्राक्कलन के अनुसार प्रावधान किया गया है।

योजना एवं कार्य की महत्ता के साथ-साथ जनहित के लिए अतिउपयोगी प्राक्कलन को कार्यहित में स्वीकृति हेतु प्रस्तुत किया जा रहा है।

*अमनौर*  
8/12/20

*अमनौर*  
कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, मढ़ौरा।

# Inspection Report for Flood damage work

Date:

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

2. Name of Block/Road- Ammanur - Matabele Road from Ammanur  
Kotki to Kotki

A. For Road

1. Damage Location/Chainage : -110 + 186 + 395 + 575 + 695 + 1200 + 1600 + 1800

2. Damage Length : 396

3. Nature of Damage :

4. Details of Restoration : Road cutting due to flood.

i Material being used in Restoration

: Bricks, road sand, etc.

ii Equipment/Tools being used in Restoration works:

: Roller, Tractor, Trolley, etc.

iii Procedure taken up in Restoration works

: Bricks, road sand, etc. laid by Roller.

iv Restored Length

: 396.

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

Er. Akhilesh Kumar  
(Name of Inspector)

EE

RWD (W) Division

SONEPOR

Scanned by CamScanner

me of Work - Motrable of Road from Arna Kothi to Kojhi

| S.L No. | Particulars              | Amount (In Rs.)      |
|---------|--------------------------|----------------------|
| A       | Cost of Restoration work | Rs 1480289.00        |
| B       | Add 12 % GST on (A)      | Rs 177635.00         |
| C       | Add 1 % L. Cess on (A)   | Rs 14803.00          |
|         | <b>Total Cost</b>        | <b>Rs 1672727.00</b> |

Q. 16, 72, 727200

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Amnaur

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R.W.D.  
Marhaura

T/A for Rs. 1672,727 = w (Rupees sixteen lac seventy two-thousand seven hundred twenty seven).

अधीक्षण अभियंता  
ग्रामीण कार्य विभाग  
कार्य प्रमंडल, छपरा

**Detailed Estimate**

Motrable of Road from Arna Kothi to Kojhi

Name of work :-

| Sl No | Item                                                                                                                               | 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, specifications and direction of E/I | 1     | 30.00  | 3.50  | 1.10    | 115.50 |      |            |        |
|       |                                                                                                                                    | 1     | 115.00 | 4.00  | 0.60    | 276.00 |      |            |        |
|       |                                                                                                                                    | 2     | 55.00  | 2.50  | 0.67    | 184.25 |      |            |        |
|       |                                                                                                                                    | 2     | 50.00  | 2.00  | 0.52    | 104.00 |      |            |        |
|       |                                                                                                                                    | 1     | 10.00  | 3.60  | 0.75    | 27.00  |      |            |        |
|       |                                                                                                                                    | 1     | 6.00   | 2.10  | 0.65    | 8.19   |      |            |        |
|       |                                                                                                                                    | 1     | 25.00  | 2.10  | 0.60    | 31.50  |      |            |        |
|       |                                                                                                                                    | Total |        |       |         |        |      |            |        |
| 2     | Filling and spreading local sand over brick bats as per drawing and technical specification Clause 305.3.9                         | 1     | 30.00  | 3.50  | 0.10    | 10.50  |      |            |        |
|       |                                                                                                                                    | 1     | 115.00 | 4.00  | 0.10    | 46.00  |      |            |        |
|       |                                                                                                                                    | 2     | 55.00  | 2.50  | 0.10    | 27.50  |      |            |        |
|       |                                                                                                                                    | 2     | 50.00  | 2.00  | 0.10    | 20.00  |      |            |        |
|       |                                                                                                                                    | 1     | 10.00  | 3.60  | 0.10    | 3.60   |      |            |        |
|       |                                                                                                                                    | 1     | 6.00   | 2.10  | 0.10    | 1.26   |      |            |        |
|       |                                                                                                                                    | 1     | 25.00  | 2.10  | 0.10    | 5.25   |      |            |        |
|       |                                                                                                                                    | Total |        |       |         |        |      |            |        |
| TOTAL |                                                                                                                                    |       |        |       |         |        |      | 1480289.00 |        |

*[Signature]*  
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Amnaur

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R.W.D  
Amnaur

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Marhaura



## ANALYSIS FOR CARRIAGE OF MATERIAL

(A) Name of the Work :- Motrable of Road from Arna Kothi Ro Kojhi

(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 =

$$\begin{aligned} &= 2224.00 \\ \text{Total per \% Nos} &= 2430.09 \\ \text{Total per m} &= 3.47 \end{aligned}$$

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 = 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 = 32.82

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

**(C) Haulage Charge By 3.60 t Tractor capacity**

- (i) For Surface Road :- Rs. 18.70 Per t per K.M  
(ii) For Unsurface Toad :- 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

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

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

**2 CARRIAGE COST OF LOCAL SAND**

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

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

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

**3 CARRIAGE COST OF STEEL**

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

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

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

  
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## SUMMARY OF CARRIAGE COST OF MATERIAL

Motable of Road from Arna Kothi Ro Kojhi

Name of work :-

| S.I No. | Name of material          | Unit               | Source       | Mode of Transport | Carriage Charge by Road | Total Carriage up to site |
|---------|---------------------------|--------------------|--------------|-------------------|-------------------------|---------------------------|
| 1       | 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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