

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

CIRCLE – R.W.D. works Circle, Chapra

DIVISION – R.W.D. works Division, Chapra-2

Name of Work - Restoration/Mottrable of Road from Ekma Kohargam
(Part-2 of Ekma Tajpur Road)

Block - Ekma

Estimated cost - Rs 1497448.00

Year : 2020-21

Inspection Report for flood damage work

Date:

1. Name of PIUs-

2. Name of Block/Road- Ekma, Restoration/Intrable of road Ekma
Kohargurh Part-2 of Ekma Tajpur road

A. For Road

1. Damage Location/Chainage :

2. Damage Length :

3. Nature of Damage :

4. Details of Restoration :

979.81 M

Due to Flood.

i Material being used in Restoration Brick Balls and Local Sand.

ii Equipment/Tools being used in Restoration works: Tractor with Trolley

iii Procedure taken up in Restoration works :

iv Restored Length

979.81 M

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



RPSM

23-12-2020

Signature of JE/AF/EE

Signature

VINOD KUMAR
(Name of Inspector)

प्रतिवेदन

कार्य का नाम — Restoration/Motable of road ~~from~~ Ekma Kohargarh
शीर्ष :- FDR (Part-2 of Ekma Tajpur Road)
प्राक्कलित राशि:- 1497448/-
प्रखण्ड का नाम:- Ekma 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 Chapra-2 के दिशा-निर्देशन में कुल रु0 1497448/- 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।

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, Chapra-2।

G Singh
23/12/2020
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23-12-2020
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ABSTRACT OF COST

Name of Work - Restoration/Mottrable of Road from Ekma Kohargarh (Part-2 of Ekma Tajpur Road)

Block - Ekma

S.L No.	Particulars	Amount (In Rs.)
A	Cost of Restoration work	Rs 1325175.00
B	Add 12 % GST on (A)	Rs 159021.00
C	Add 1 % L. Cess on (A)	Rs 13252.00
	Total Cost	Rs 1497448.00

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T/P for Rs 1497448 = (fourteen lakh nine thousand four hundred forty eight) only
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Detailed Estimate

Name of work :-

Restoration/Mottrable of Road from Ekma Kohargarh (Part-2 of Ekma Tajpur Road)

S.No	Item	No	Length	Width	Avg.H/D	Qty	Unit	Rate	Amount
1	Providing laying and spreading brick bats in Road	1	6.15	2.50	0.50	7.69			
	drains, all complete as per approved design,	1	6.24	3.25	0.45	9.13			
	Specifications and direction of E/I	1	17.78	2.00	0.38	13.51			
		1	14.13	2.50	0.40	14.13			
		1	12.39	2.45	0.45	13.66			
		1	16.28	2.25	0.30	10.99			
		1	12.51	3.15	0.35	13.79			
		1	8.00	2.35	0.30	5.64			
		1	17.47	2.50	0.40	17.47			
		1	12.70	3.00	0.25	9.53			
		1	24.42	1.79	0.30	13.11			
		1	13.02	1.98	0.35	9.02			
		1	13.79	2.02	0.40	11.14			
		1	21.90	1.10	0.42	10.12			
		1	15.04	1.31	0.38	7.49			
		1	17.43	1.96	0.44	15.03			
		1	15.25	1.91	0.38	11.07			
		1	20.04	1.24	0.42	10.44			
		1	14.38	1.91	0.35	9.61			
		1	20.35	1.96	0.30	11.97			
		1	15.63	2.07	0.38	12.29			
		1	21.52	1.24	0.40	10.67			
		1	15.25	1.38	0.42	8.84			
		1	13.99	1.96	0.37	10.15			
		1	14.41	1.91	0.46	12.66			
		1	21.86	0.83	0.30	5.44			
		1	15.63	1.66	0.35	9.08			
		1	12.14	2.07	0.35	8.80			
		1	12.86	1.24	0.40	6.38			
		1	17.09	1.85	0.38	12.01			
		1	17.75	1.66	0.42	12.38			
		1	14.11	1.79	0.40	10.10			
		1	16.80	1.38	0.30	6.96			
		1	9.50	1.75	0.30	4.99			
		1	12.50	2.30	0.40	11.50			
		1	17.50	2.00	0.45	15.75			
		1	14.60	1.50	0.35	7.67			
		1	12.70	2.25	0.38	10.86			
		1	10.40	2.30	0.36	8.61			
		1	16.70	1.60	0.30	8.02			
		1	14.80	2.05	0.40	12.14			
		1	7.50	2.50	0.45	8.44			
		1	12.70	2.65	0.42	14.14			
		1	14.30	1.80	0.40	10.30			
		1	13.60	1.98	0.30	8.08			
		1	13.90	2.10	0.35	10.22			
		1	11.70	1.30	0.38	5.78			
		1	15.40	1.40	0.35	7.55			
		1	7.45	1.90	0.36	5.10			
		1	15.30	1.80	0.40	11.02			
		1	10.70	1.24	0.42	5.57			
		1	14.30	1.25	0.45	8.04			

I No	Item	No	Length	Width	Avg.H/D	Qty	Unit	Rate	Amount
		1	10.30	1.32	0.40	5.44			
		1	5.60	2.10	0.30	3.53			
		1	11.50	1.20	0.25	3.45			
		1	15.25	1.38	0.30	6.31			
		1	13.80	1.30	0.38	6.82			
		1	14.20	1.70	0.35	8.45			
		1	12.30	1.75	0.40	8.61			
		1	15.60	1.70	0.40	10.61			
		1	11.20	2.00	0.38	8.51			
		1	11.80	1.40	0.35	5.78			
		1	7.30	1.85	0.45	6.08			
		1	17.80	1.60	0.30	8.54			
		1	14.40	1.47	0.30	6.35			
		1	11.80	1.40	0.35	5.78			
		1	12.50	1.75	0.30	6.56			
		1	22.10	1.60	0.35	12.38			
		1	18.50	1.70	0.40	12.58			
		Total				649.86	cum	1909.87	1241145.00
2	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 305.3.9	1	6.15	2.50	0.10	1.54			
		1	6.24	3.25	0.10	2.03			
		1	17.78	2.00	0.10	3.56			
		1	14.13	2.50	0.10	3.53			
		1	12.39	2.45	0.10	3.04			
		1	16.28	2.25	0.10	3.66			
		1	12.51	3.15	0.10	3.94			
		1	8.00	2.35	0.10	1.88			
		1	17.47	2.50	0.10	4.37			
		1	12.70	3.00	0.10	3.81			
		1	24.42	1.79	0.10	4.37			
		1	13.02	1.98	0.10	2.58			
		1	13.79	2.02	0.10	2.79			
		1	21.90	1.10	0.10	2.41			
		1	15.04	1.31	0.10	1.97			
		1	17.43	1.96	0.10	3.42			
		1	15.25	1.91	0.10	2.91			
		1	20.04	1.24	0.10	2.48			
		1	14.38	1.91	0.10	2.75			
		1	20.35	1.96	0.10	3.99			
		1	15.63	2.07	0.10	3.24			
		1	21.52	1.24	0.10	2.67			
		1	15.25	1.38	0.10	2.10			
		1	13.99	1.96	0.10	2.74			
		1	14.41	1.91	0.10	2.75			
		1	21.86	0.83	0.10	1.81			
		1	15.63	1.66	0.10	2.59			
		1	12.14	2.07	0.10	2.51			
		1	12.86	1.24	0.10	1.59			
		1	17.09	1.85	0.10	3.16			
		1	17.75	1.66	0.10	2.95			
		1	14.11	1.79	0.10	2.53			
		1	16.80	1.38	0.10	2.32			
		1	9.50	1.75	0.10	1.66			
		1	12.50	2.30	0.10	2.88			
		1	17.50	2.00	0.10	3.50			
		1	14.60	1.50	0.10	2.19			
		1	12.70	2.25	0.10	2.86			
		1	10.40	2.30	0.10	2.39			
		1	16.70	1.60	0.10	2.67			
		1	14.80	2.05	0.10	3.03			

I No	Item	No	Length	Width	Avg.H/D	Qty	Unit	Rate	Amount
		1	7.50	2.50	0.10	1.88			
		1	12.70	2.65	0.10	3.37			
		1	14.30	1.80	0.10	2.57			
		1	13.60	1.98	0.10	2.69			
		1	13.90	2.10	0.10	2.92			
		1	11.70	1.30	0.10	1.52			
		1	15.40	1.40	0.10	2.16			
		1	7.45	1.90	0.10	1.42			
		1	15.30	1.80	0.10	2.75			
		1	10.70	1.24	0.10	1.33			
		1	14.30	1.25	0.10	1.79			
		1	10.30	1.32	0.10	1.36			
		1	5.60	2.10	0.10	1.18			
		1	11.50	1.20	0.10	1.38			
		1	15.25	1.38	0.10	2.10			
		1	13.80	1.30	0.10	1.79			
		1	14.20	1.70	0.10	2.41			
		1	12.30	1.75	0.10	2.15			
		1	15.60	1.70	0.10	2.65			
		1	11.20	2.00	0.10	2.24			
		1	11.80	1.40	0.10	1.65			
		1	7.30	1.85	0.10	1.35			
		1	17.80	1.60	0.10	2.85			
		1	14.40	1.47	0.10	2.12			
		1	11.80	1.40	0.10	1.65			
		1	12.50	1.75	0.10	2.19			
		1	22.10	1.60	0.10	3.54			
		1	18.50	1.70	0.10	3.15			
Total						175.33	cum	479.27	84030.00
TOTAL									1325175.00

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ANALYSIS FOR CARRIAGE OF MATERIAL

(A) Name of the Work :- Restoration/Motable of Road from Ekma Kohargarh (Part-2 of Ekma Tajpur Road)

(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

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

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

2 CARRIAGE COST OF STONE BOULDER

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

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

$$\begin{aligned} \text{Loading \& Unloading} &= & &= 196.13 \\ \text{Total per M}^3 &= 2452.13 \end{aligned}$$

3 CARRIAGE COST OF GSB Material

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

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

$$\begin{aligned} \text{Loading \& Unloading} &= & &= 196.13 \\ \text{Total per M}^3 &= 2366.23 \end{aligned}$$

4 CARRIAGE COST OF HUME PIPE (1000 MM DIA)

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

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

$$\begin{aligned} \text{Loading \& Unloading} &= & &= 76.58 \\ \text{Total per M} &= 407.46 \end{aligned}$$

5 CARRIAGE COST OF HUME PIPE (600 MM DIA)

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

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

$$\begin{aligned} \text{Loading \& Unloading} &= & &= 32.82 \\ \text{Total per M} &= 95.84 \end{aligned}$$

(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

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

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

2 CARRIAGE COST OF LOCAL SAND

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

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

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

3 CARRIAGE COST OF STEEL

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

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

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

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SUMMARY OF CARRIAGE COST OF MATERIAL

Name of work :-

Restoration/Mottrable of Road from Ekma Kohargarh (Part-2 of Ekma Tajpur Road)

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 ³	Local Kiln	By Road	321.54	321.54
2	Fine sand	per m ³	Local source	By Road	147.37	147.37
3	Steel	per mt	Local	By Road	418.96	418.96
4	Boulder	per m ³	Sheikhpura	By Road	2452.13	2452.13
5	Stone metal <50 mm	per m ³	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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