

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 Asab to Takina

Block - Marhaura

Estimated cost - Rs 3187974.00

Year : 2020-21

Inspection Report for Flood Damage Work

Date:

1. Name of PIUs - *EE P.W.D (u) Division, Mahaur*
2. Name of Block/Road - *Mahaur*

A. For Road *Asura to Takhura*

1. Damage Location/Chainage : *360, 380, 440, 670, 1260, 1320, 1370, 2350, 2800*
2. Damage Length : *457m : 2870, 3200, 4100, 4260, 4650, 4770, 5300, 5450*
3. Nature of Damage : *cut in road*
4. Details of Restoration Works :
 - i. Material being used in Restoration works : *Gravel, Ball, L/Sand*
 - ii. Equipments/Tools being used in Restoration works : *Tractor, Tolly, Pallet etc*
 - iii. Procedure taken up in Restoration works : *layy, spready etc*
 - iv. Restored Length : *457.1m*

B. For Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage :
4. Details of Restoration Works :
 - i. Material being used in Restoration works :
 - ii. Equipments/Tools being used in Restoration works :
 - iii. Procedure taken up in Restoration works :
 - iv. Restored Length :

C. Requirement of new CD/Bridge

- i. Name of Road :
- ii. Location/Chainage :
- iii. Type of CD work/Length required :

- Upload one Photograph of damaged portion if available
- Attach minimum two photograph (during restoration & after restoration) photographs should be Geotags and at least one photo be captured in selfie mode.

Signature of JE/AE/EE

[Handwritten Signature]

Signature

(Name of Inspector)

Detailed Estimate

Motable of Road from Asab to Takina

Name of work

SI 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	11.00	4.00	0.30	13.20					
		1	36.50	1.00	0.90	32.85					
		1	19.00	3.90	0.60	44.46					
		1	21.50	4.40	0.80	75.68					
		1	15.00	0.75	0.35	3.94					
		1	17.00	4.20	1.50	107.10					
		1	24.00	4.20	1.50	151.20					
		1	40.50	4.00	0.65	105.30					
		1	91.50	4.50	0.95	391.16					
		1	13.00	3.30	0.30	12.87					
		1	30.50	4.70	0.65	93.18					
		1	3.60	4.20	0.30	4.54					
		1	7.50	4.50	0.65	21.94					
		1	19.50	4.40	0.45	38.61					
		1	4.00	2.40	0.65	6.24					
		1	3.50	2.70	0.35	3.31					
		1	2.50	3.00	0.50	3.75					
		1	6.00	4.25	0.70	17.85					
		1	15.00	3.90	0.25	14.63					
		1	76.00	4.50	0.85	290.70					
		Total						1432.51	cum	1909.87	2735901.00
		2	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 305.3.9	1	11.00	4.00	0.10	4.40			
				1	36.50	1.00	0.10	3.65			
1	19.00			3.90	0.10	7.41					
1	21.50			4.40	0.10	9.46					
1	15.00			0.75	0.10	1.13					
1	17.00			4.20	0.10	7.14					
1	24.00			4.20	0.10	10.08					
1	40.50			4.00	0.10	16.20					
1	91.50			4.50	0.10	41.18					
1	13.00			3.30	0.10	4.29					
1	30.50			4.70	0.10	14.34					
1	3.60			4.20	0.10	1.51					
1	7.50			4.50	0.10	3.38					
1	19.50			4.40	0.10	8.58					
1	4.00			2.40	0.10	0.96					
1	3.50			2.70	0.10	0.95					
1	2.50			3.00	0.10	0.75					
1	6.00			4.25	0.10	2.55					
1	15.00			3.90	0.10	5.85					
1	76.00			4.50	0.10	34.20					
1	0.00			0.00	0.10	0.00					
Total						178.01	cum	479.27	85315.00		
TOTAL								2821216.00			

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Marhaura

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ANALYSIS FOR CARRIAGE OF MATERIAL

(A) Name of the Work :- Motrable of Road from Asab to Takina

(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 =

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

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 =

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

5 CARRIAGE COST OF HUME PIPE (600 MM DIA)

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

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

Loading & Unloading =

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

(C) Haulage Charge By 3.60 t Tractor capacity

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

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

$$\text{Unloading} = \quad \quad \quad = \quad \quad \quad = \frac{65.38}{\quad \quad \quad}$$

$$\text{Total per 1000 Nos.} = \underline{321.54}$$

2 CARRIAGE COST OF LOCAL SAND

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

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

$$\text{Unloading} = \quad \quad \quad = \quad \quad \quad = \frac{40.81}{\quad \quad \quad}$$

$$\text{Total per M}^3 = \underline{147.37}$$

3 CARRIAGE COST OF STEEL

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

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

$$\text{Loading \& Unloading} = \quad \quad \quad = \quad \quad \quad = \frac{325.46}{\quad \quad \quad}$$

$$\text{Total per Mt} = \underline{418.96}$$


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SUMMARY OF CARRIAGE COST OF MATERIAL

Motrabale of Road from Asab to Takina

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 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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