

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 Sarai bridge to Sirisiya

Block - Amnaur

Estimated cost - Rs 2058936.00

Year : 2020-21

Inspection Report for Flood damage work

Date:

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

2. Name of Block/Road- Amamur - Motorable of Road from Sonari
Bridge to Sissiya.

A. For Road

1. Damage Location/Chainage : 1.84, 2.10, 2.46, 2.90, 3.15, 3.40, 3.60, 3.80, 3.96.

2. Damage Length : 113

3. Nature of Damage : Road cutting due to flood.

4. Details of Restoration :

i Material being used in Restoration

: Boral Gt, Local Sand filling.

ii Equipment/Tools being used in Restoration works:

: Roller, Tractor, Trolley, J.C.B.

iii Procedure taken up in Restoration works

: Borehole Bet, Local Sand filling.

iv Restored Length

: 113.

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:

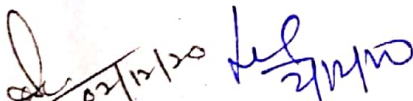
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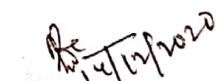
iii Procedure taken up in Restoration works

:

iv Restored Length

:


Signature of JE/AE/EE


Signature

AKHILES KUMAR
(Name of Inspector)

E.E. R.W.D.

(W) DIVISION - SONEPUR

प्रतिवेदन

कार्य का नाम :- *Motable of Road from G. N. G. bridge to Sindiyar.*

शीर्ष :- FDR

प्राक्कलित राशि:- 2058736/-

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 2058736/- 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।

[Signature]
02/11/20

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

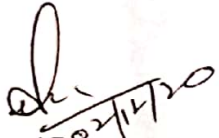
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ABSTRACT OF COST

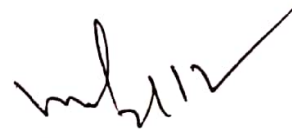
Name of Work - Motrable of Road from Sarai bridge to Sirisiya

Block - Amnaur

S.L No.	Particulars	Amount (In Rs.)
A	Cost of Restoration work	Rs 1822067.00
B	Add 12 % GST on (A)	Rs 218648.00
C	Add 1 % L. Cess on (A)	Rs 18221.00
	Total Cost	Rs 2058936.00

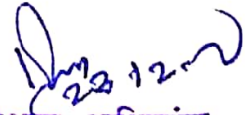

J.E.
RWD
Amnaur


A.E.
R.W.D
Amnaur


E.E.
R.W.D
Marhaura

Rs. 20,58,936=00.

T/A for Rs. 20,58,936=00. (Rupees twenty lae fifty-eight thousand nine hundred thirty six) only.

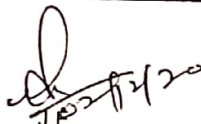

अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, छपरा

ne of work :-

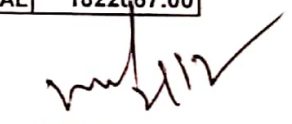
Detailed Estimate

Motable of Road from Sarai bridge to Sirisiya

I 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	2	13.00	3.76	1.29	126.11							
		1	6.00	3.90	1.12	26.21							
		2	6.00	3.76	1.00	45.12							
		2	13.00	4.20	1.47	160.52							
		2	17.00	3.90	1.61	213.49							
		1	18.00	3.75	1.70	114.75							
		2	8.00	3.54	1.78	100.82							
		2	4.00	3.60	1.12	32.26							
		2	7.00	3.86	0.47	25.40							
		2	8.00	3.90	1.48	92.35							
		Total								937.03	cum	1909.87	1789601.00
		2	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 305.3.9	2	13.00	3.76				0.10	9.78		
1	6.00			3.90	0.10	2.34							
2	6.00			3.76	0.10	4.51							
2	13.00			4.20	0.10	10.92							
2	17.00			3.90	0.10	13.26							
1	18.00			3.75	0.10	6.75							
2	8.00			3.54	0.10	5.66							
2	4.00			3.60	0.10	2.88							
2	7.00			3.86	0.10	5.40							
2	8.00			3.90	0.10	6.24							
Total					67.74	cum	479.27	32466.00					
TOTAL								1822067.00					


RWD
Amnaur


A.E
R.W.D
Amnaur


E.E
R.W.D
Marhaura

ANALYSIS FOR CARRIAGE OF MATERIAL

(A) Name of the Work :- Restoration/Mottrable of Road from Sarai bridge to Sirisiya

(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 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

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

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

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

2 CARRIAGE COST OF LOCAL SAND

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

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

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

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

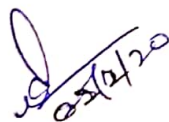
3 CARRIAGE COST OF STEEL

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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FDR Analysis

Sr. No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1.1	Loading and Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Manual Means				
	(i) Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m				
	Unit = cum				
	Taking output = 5.5 cum				
	a) Labour				
	Mate	day	0.02	305.00	6.10
	Mazdoor (Unskilled)	day	0.50	287.00	143.50
	b) Machinery				
	Truck	hour	0.50	934.30	467.15
	c) Overheads on (a+b)	=@ 6%			37.01
	d) Contractor's profit on (a+b+c)	=@ 10%			65.38
	Cost for 5.5 cum = a+b+c+d				719.13
	Rate per cum = (a+b+c+d)/5.5				130.75
	(ii) Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m				
	Unit = cum				
	Taking output = 5.5 cum				
	a) Labour				
	Mate	day	0.01	305.00	3.05
	Mazdoor (Unskilled)	day	0.25	287.00	71.75
	b) Machinery				
	Truck	hour	0.25	934.30	233.58
	c) Overheads on (a+b)	=@ 6%			18.50
	d) Contractor's profit on (a+b+c)	=@ 10%			32.69
	Cost for 5.5 cum = a+b+c+d				359.57
	Rate per cum = (a+b+c+d)/5.5				65.38
	(iii) Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m				
	Unit = cum				
	Taking output = 5.5 cum				
	a) Labour				
	Mate	day	0.01	305.00	3.05
	Mazdoor (Unskilled)	day	0.25	287.00	71.75
	b) Machinery				
	Truck	hour	0.25	934.30	233.58
	c) Overheads on (a+b)	=@ 6%			18.50
	d) Contractor's profit on (a+b+c)	=@ 10%			32.69
	Cost for 5.5 cum = a+b+c+d				359.57
	Rate per cum = (a+b+c+d)/5.5				65.38

(iv) Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m

Unit = cum

Taking output = 5.5 cum

a) Labour

Mate

day

0.005

305.00

1.53

Mazdoor (Unskilled)

day

0.125

287.00

35.88

b) Machinery

Truck

hour

0.166

934.30

155.09

c) Overheads on (a+b)

=@

6%

11.55

d) Contractor's profit on (a+b+c)

=@

10%

20.40

Cost for 5.5 cum = a+b+c+d

224.45

Rate per cum = (a+b+c+d)/5.5

40.81

1.3 Loading, Unloading and Stacking of Bricks by Manual Means

(i) Loading of Bricks by manual means including a lead upto 30 m

Unit = 1000 Nos.

Taking output = 2000 Nos.

a) Labour

Mate

day

0.01

305.00

3.05

Mazdoor (Unskilled)

day

0.25

287.00

71.75

b) Machinery

Truck

hour

0.33

934.30

308.32

c) Overheads on (a+b)

=@

6%

22.99

d) Contractor's profit on (a+b+c)

=@

10%

40.61

Cost for 2000 Nos. = a+b+c+d

446.72

Rate for 1000 bricks = (a+b+c+d)/2

223.36

(ii) Unloading and Stacking of Bricks by manual means including a lead upto 30 m

Unit = 1000 Nos.

Taking output = 2000 Nos.

a) Labour

Mate

day

0.01

305.00

3.05

Mazdoor (Unskilled)

day

0.25

287.00

71.75

b) Machinery

Truck

hour

0.33

934.30

308.32

c) Overheads on (a+b)

=@

6%

22.99

d) Contractor's profit on (a+b+c)

=@

10%

40.61

Cost for 2000 Nos. = a+b+c+d

446.72

Rate for 1000 bricks = (a+b+c+d)/2

223.36

1.5 Loading and Unloading of Structural Steel and Steel Bars by manual means

(i) Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m

Unit = t

Taking output = 10 t

a) Labour

Mate

day

0.07

305.00

21.35

Mazdoor (Unskilled)

day

1.80

287.00

516.60

b) Machinery

Truck

hour

1.00

934.30

934.30

c) Overheads on (a+b)

=@

6%

88.34

d) Contractor's profit on (a+b+c)

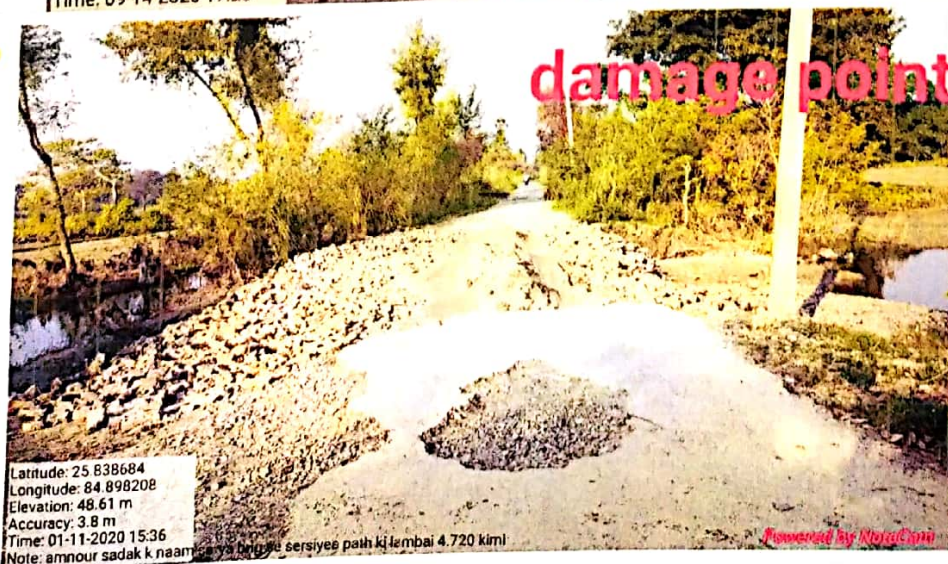
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10%

156.06

FDR

Name of Road - moterale of Road from Saray Brize to sirisiya Raj
Block - Amnour



27/11/20

28/12/20
A

FDR

me of Road - moterale of Road from Sarayboize to sirisiyan Raj

Block - Amnour



27/12/20
28/12/20
A

FDR

of Road - Moterale of Road from - Saray Boize to Sirisiya Raj

Block - Amnour



HP
28/12/20
A



27/12/20

28/12/20