

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 SH-73 to Bada Pokhara to Gandak Bandh Madhubani

Block - Amnaur

Estimated cost - Rs 2250552.00

Year : 2020-21

Inspection Report for Flood damage work

Date:

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

2. Name of Block/Road- Amnour - Motorable of Road from SH 73 to Badar
Pakhera to Gondole Boudh Hadkubon.

A. For Road

1. Damage Location/Chainage : 600 + 750 + 2*20 + 2*50

2. Damage Length : 164m

3. Nature of Damage : cutting in road crust & flanking.

4. Details of Restoration :

i Material being used in Restoration

Rocky Butts, Sand Local

ii Equipment/Tools being used in Restoration works: Tractor, Trolley, Roller etc

iii Procedure taken up in Restoration works : Dumping, Laying, Rolling

iv Restored Length : 164 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

Signature of JE/AE/EE

Signature

AKHILESH KUMAR
(Name of Inspector)

B.E. R.W.D

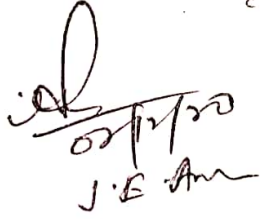
(W) DIVISION - SONEPUR

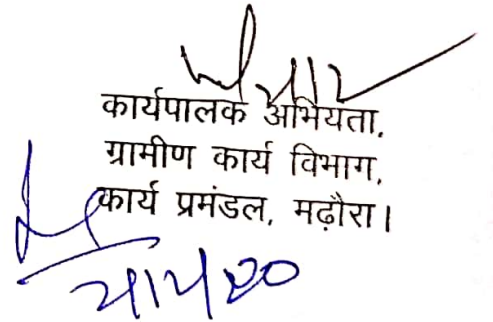
प्रतिवेदन

कार्य का नाम :- *Motable of Road from SH-75 to Badli Palkar to Gend*
शीर्ष :- FDR
प्राक्कलित राशि :- 2250552/-
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 2250552/- 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।

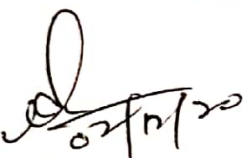

J.E. An


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, मढ़ौरा।
21/12/20

Name of Work - **ABSTRACT OF COST**
Mottrable of Road from SH-73 to Bada Pokhara to Gandak Bandh
Madhubani

Block - Amnaur

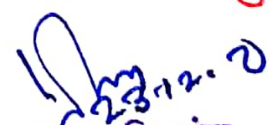
S.L No.	Particulars	Amount (In Rs.)
A	Cost of Restoration work	
B	Add 12 % GST on (A)	Rs 1991639.00
C	Add 1 % L. Cess on (A)	Rs 238997.00
		Rs 19916.00
	Total Cost	Rs 2250552.00


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T/A for Rs. 2250,552.00 (Rupees twenty two lacs fifty thousand five hundred fifty two) only.


अधीक्षक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, छपरा

Name of work :-

Detailed Estimate

Mottrable of Road from SH-73 to Bada Pokhara to Gandak Bandh Madhubani

Motrable of Road from SH-73 to Bada Pokhara to Gandak Bandh Madhubani										
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	2	25.00	3.90	1.67	325.65				
		2	5.00	3.90	1.10	42.90				
		2	12.00	4.10	1.20	118.08				
		2	30.00	4.50	1.32	356.40				
		2	30.00	3.10	0.52	96.72				
		2	30.00	3.05	0.43	78.69				
2	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 305.3.9	Total				1018.44	cum	1909.87	1945083.00	
		2	25.00	3.90	0.10	19.50				
		2	5.00	3.90	0.10	3.90				
		2	12.00	4.10	0.10	9.84				
		2	30.00	4.50	0.10	27.00				
		2	30.00	3.10	0.10	18.60				
		2	30.00	3.05	0.10	18.30				
		Total				97.14	cum	479.27	46556.00	
		TOTAL								1991639.00

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ANALYSIS FOR CARRIAGE OF MATERIAL

(A) Name of the Work :- Restoration/Mottrable of Road from SH-73 to Bada Pokhara to Gandak Bandh Madhubani

(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 =

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

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 =

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

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 =

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

(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 :-

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

Unloading =

$$= \frac{65.38}{}$$

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

2 CARRIAGE COST OF LOCAL SAND

Lead as per Quarry Chart :-

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

Unloading =

$$= \frac{40.81}{}$$

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

3 CARRIAGE COST OF STEEL

Lead as per Quarry Chart :-

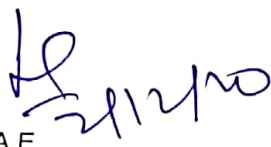
$$\text{Haulage Cost} = \frac{3.60}{3.60} \times [(18.70 \times 5.00) + (29.20 \times 0.00)] = 93.50$$

Loading & Unloading =

$$= \frac{325.46}{}$$

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


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SUMMARY OF CARRIAGE COST OF MATERIAL

Name of work :-

Restoration/Mottrable of Road from SH-73 to Bada Pokhara to Gandak Bandh
Madhubani

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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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

Mazdoor (Unskilled)

day

0.005

305.00

1.53

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

Mazdoor (Unskilled)

day

0.01

305.00

3.05

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

Mazdoor (Unskilled)

day

0.01

305.00

3.05

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

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)

=@

10%

156.06

Cost for 10 t = $a+b+c+d$

Rate per tonnes = $(a+b+c+d)/10$

1716.64

171.66

Name of Road- SH 73 to Bara pokhara Hote huve gandak
Bandh madhubani Taluk

Block - Amnour

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kg
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27/12/20
SHD AR

F.D.R

Name of Road - SH 73 Se bara Pakhara Hote Huye Wanda
 Bandh Madhubani Tak Block - Amnour



by
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27/12/20
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F.D.R

Name of Road- SH 73 se Bara Pokhara Hote Huye Gaudak Bandh
Madhubani Taluk

Block - Amnour



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R

27/12/20
J.E.A.

name of Road - F.D.R SH 73 se Basa pokhara Hote Huye Gandak Bandh
 madhubani Tak BLOCK- Amnour



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