

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 Dhor chhapra to Parmanand chhapra

Block - Amnaur

Estimated cost - Rs 1479829.00

Year : 2020-21

Inspection Report for Flood damage work

Date:

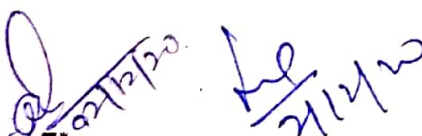
1. Name of PIUs- **EE RWD WORKS DIVISION MARIHAURA**
2. Name of Block/Road- **motorable of Road from THOUR CHAPRA**
To Parmanand Chapra

A. For Road

1. Damage Location/Chainage : - 0.800, 1.00
2. Damage Length : **62**
3. Nature of Damage : **road cutting due to Flood**
4. Details of Restoration : **Brick Bats & sand Filling**
i Material being used in Restoration **Brick Bats and sand Filling**
ii Equipment/Tools being used in Restoration works: **J.C.B, Tractor, Trolley, Roadar etc**
iii Procedure taken up in Restoration works : **Brick Bats and sand**
iv Restored Length : **62 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)

E.E R.W.D

(W) DIVISION- SONEPUR

प्रतिवेदन

कार्य का नाम :- Motable of road from Shor Chapra to Formanand
शीर्ष :- FDR Chapra road.

प्राक्कलित राशि:- 14.79.829 =

प्रखण्ड का नाम:- अमनौर

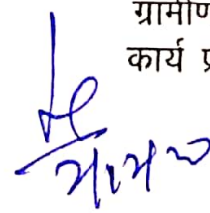
जिला-सारण।

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 (Motable) बनाने हेतु विभागीय दिशा-निर्देशानुसार कार्यपालक अभियंता, ग्रा0का0वि0, कार्य प्रमंडल मढ़ौरा के दिशा-निर्देशन में कुल रु0 14.79.829 = 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।

el-
02/11/20

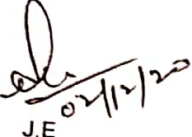

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, मढ़ौरा।


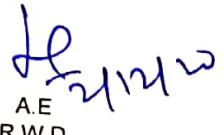
ABSTRACT OF COST

Name of Work - Motrable of Road from Dhor chhapra to Parmanand chhapra

Block - Amnaur

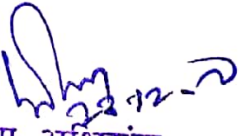
S.L No.	Particulars	Amount (In Rs.)
A	Cost of Restoration work	Rs 1309583.00
B	Add 12 % GST on (A)	Rs 157150.00
C	Add 1 % L. Cess on (A)	Rs 13096.00
	Total Cost	Rs 1479829.00


J.E
RWD
Amnaur


A.E
R.W.D
Amnaur


E.E
R.W.D
Marhaura

T/A for Rs 1479829 :- (fourteen lakh
seven nine thousand eight hundred twenty nine.)


अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, छपरा

Name of work :-

Detailed Estimate

Motable of Road from Dhor chhapra to Parmanand chhapra

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	4.10	2.87	588.35			
		1	12.00	3.95	1.92	91.01			
		Total						679.36	cum
2	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 305.3.9	2	25.00	4.10	0.10	20.50			
		1	12.00	3.95	0.10	4.74			
		Total						25.24	cum
TOTAL									1309583.00


J.E
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/Motable of Road from Dhor chhapra to Parmanand chhapra

(B) Haulage Charge By 8 T Capacity Truck

- (i) For Surface Road :- Rs. 7.52 Per t per K.M
- (ii) For Unsurface Road :- 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 =

$$= \frac{76.58}{407.46}$$

$$\text{Total per M} = 407.46$$

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 =

$$= \frac{32.82}{95.84}$$

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

(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

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

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

2 CARRIAGE COST OF LOCAL SAND

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

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

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

3 CARRIAGE COST OF STEEL

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

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

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


J.E.

RWD
Marhaura


A.E.

R.W.D
Marhaura


E.E.

R.W.D
Marhaura

Name of work :-

SUMMARY OF CARRIAGE COST OF MATERIAL

Restoration/Motable of Road from Dhor chhapra to Parmanand chhapra

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

J.E. 24/11/20
RWD
Marhaura
Amon

A.E. 24/11/20
R.W.D
Marhaura

E.E.
R.W.D
Marhaura

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)

=@

10%

156.06

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

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

1716.64

171.66

(ii) Unloading 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
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Mazdoor (Unskilled)	day	1.80	287.00	516.60
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b) Machinery

Truck	hour	1.00	934.30	934.30
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c) Overheads on (a+b)	=@	6%		88.34
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d) Contractor's profit on (a+b+c)	=@	10%		156.06
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Cost for 10 t = a+b+c+d				1716.64
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Rate per t = (a+b+c+d)/10				171.66
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1.9 Loading and Unloading of Hume Pipes

(i) Loading of RCC Hume pipes by mechanical means including a lead upto 30 m

A. 1000 / 1200 mm dia Hume pipe

Unit = per pipe

Taking output = 9 pipes

a) Labour

Mate	day	0.02	305.00	6.10
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Mazdoor (Unskilled)	day	0.50	287.00	143.50
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b) Machinery

Truck	hour	0.33	934.30	308.32
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Crane	hour	0.33	1,289.30	425.47
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c) Overheads on (a+b)	=@	6%		53.00
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d) Contractor's profit on (a+b+c)	=@	10%		93.64
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Cost for 9 pipes = a+b+c+d				1030.03
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Rate per pipe = (a+b+c+d)/9				114.45
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Rate per M = (a+b+c+d)/2.50				45.78
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C. 600/450 mm dia Hume pipe

Unit = per pipe

Taking output = 21 pipe

a) Labour

Mate	day	0.02	305.00	6.10
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Mazdoor (Unskilled)	day	0.50	287.00	143.50
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b) Machinery

Truck	hour	0.33	934.30	308.32
-------	------	------	--------	--------

Crane	hour	0.33	1,289.30	425.47
-------	------	------	----------	--------

c) Overheads on (a+b)	=@	6%		53.00
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d) Contractor's profit on (a+b+c)	=@	10%		93.64
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Cost for 21 pipes = a+b+c+d				1030.03
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Rate per pipe = (a+b+c+d)/21				49.05
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Rate per M = (a+b+c+d)/2.5				19.62
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(iii) Unloading of RCC Hume pipes by mechanical means including a lead upto 30 m

A. 1000/1200 mm dia Hume pipe

Unit = per pipe

Taking output = 9 pipes

a) Labour

Mate

Mazdoor (Unskilled)

day

0.02

305.00

6.10

day

0.50

287.00

143.50

b) Machinery

Truck

hour

0.20

934.30

186.86

hour

0.20

1,289.30

257.86

c) Overheads on (a+b)

=@

6%

35.66

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

=@

10%

63.00

Cost for 9 pipes = a+b+c+d

692.98

Rate per M = (a+b+c+d)/9

277.19

Rate per pipe = (a+b+c+d)/9

77.00

Rate per M = (a+b+c+d)/9

30.80

C. 600/450 mm dia Hume pipe

Unit = per pipe

Taking output = 21 pipes

a) Labour

Mate

day

0.02

305.00

6.10

Mazdoor (Unskilled)

day

0.50

287.00

143.50

b) Machinery

Truck

hour

0.20

934.30

186.86

Crane

hour

0.20

1,289.30

257.86

c) Overheads on (a+b)

=@

6%

35.66

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

=@

10%

63.00

Cost for 21 pipes = a+b+c+d

692.98

Rate per pipe = (a+b+c+d)/21

33.00

Rate per M = (a+b+c+d)/9

13.20

BY Truck

1.10 Haulage excluding Loading & Unloading

Haulage of materials by tipper excluding cost of loading, unloading and stacking.

Unit = t.km

Taking output 10 t load and lead 10 km = 100 t.km

Case-I : Surfaced Road

Speed with load: 25 km per hour

Speed while returning empty: 35 km per hour

a) Machinery

Tipper 10 t capacity

Haulage with load

hour

0.40

934.30

373.72

Empty return trip

hour

0.29

934.30

270.95

b) Overheads on (a)

=@

6%

38.68

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

=@

10%

68.33

Cost for 100 t.km = a+b+c

751.68

Rate per t.km = (a+b+c)/100

7.52

Case-II: Unsurfaced Gravel Road

Speed with load: 20 km/hour

Speed for empty return trip: 30 km/hour

a) Machinery**Tipper 10 t capacity**

Haulage with load	hour	0.50	934.30	467.15
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Empty return trip	hour	0.33	934.30	308.32
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b) Overheads on (a)	=@	6%		46.53
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c) Contractor's profit on (a+b)	=@	10%		82.20
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Cost for 100 t.km = a+b+c				904.20
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Rate per t.km = (a+b+c)/100				9.04
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Case-II Katcha Track and Track in River Bed/Nallah Bed and Choe Bed

Speed with load: 10 km per hour

Speed while returning empty: 15 km per hour

a) Machinery**i) Tipper 10 t capacity**

Haulage with load	hour	1.00	934.30	934.30
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Empty return trip	hour	0.67	934.30	625.98
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b) Overheads on (a)	=@	6%		93.62
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c) Contractor's profit on (a+b)	=@	10%		165.39
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Cost for 100 t.km = a+b+c				1819.29
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Rate per t.km = (a+b+c)/100				18.19
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BY Tractor**1.10 Haulage excluding Loading & Unloading**

Haulage of materials by tractor excluding cost of loading, unloading and stacking.

Unit = t.km

Taking output 3.60 t load and lead 10 km = 36 t.km

Case-I : Surfaced Road

Speed with load: 15 km per hour

Speed while returning empty: 25 km per hour

a) Machinery**Tractor 3.60 t capacity**

Haulage with load	hour	0.667	542.00	361.51
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Empty return trip	hour	0.40	542.00	216.80
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b) Overheads on (a)	=@	6%		34.70
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c) Contractor's profit on (a+b)	=@	10%		61.30
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Cost for 36 t.km = a+b+c				674.31
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Rate per t.km = (a+b+c)/36				18.73
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Case-II: Unsurfaced Gravel Road

Speed with load: 12 km/hour

Speed for empty return trip: 20 km/hour

a) Machinery**Tractor 3.60 t capacity**

Haulage with load	hour	0.833	542.00	451.49
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Empty return trip	hour	0.50	542.00	271.00
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b) Overheads on (a)	=@	6%		43.35
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c) Contractor's profit on (a+b)	=@	10%		76.58
--	----	-----	--	-------

Cost for 100 t.km = a+b+c				842.42
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Rate per t.km = $(a+b+c)/36$

23.40

Case-II Katcha Track and Track in River Bed/Nallah Bed and Choo Bed

Speed with load: 10 km per hour

Speed while returning empty: 15 km per hour

a) Machinery

i) Tractor 3.60 t capacity

Haulage with load

Empty return trip

hour	1.00	542.00	542.00
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hour	0.667	542.00	361.51
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b) Overheads on (a)

=@	6%		54.21
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c) Contractor's profit on (a+b)

=@	10%		95.77
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Cost for 100 t.km = a+b+c

1053.50

Rate per t.km = (a+b+c)/36

29.26

3.3 Construction of Embankment with Material Obtained from Roadway Cutting

Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5

Unit = cum

Taking output = 120 cum

a) Labour

Mate

day	1.80	305.00	549.00
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Mazdoor (Unskilled)

day	45.00	287.00	12915.00
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b) Machinery

Tractor with trolley @ 2.50 cum per trip

hour	12.00	542.00	6504.00
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c) Overheads on (a+b)

=@	6%		1198.08
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d) Contractor's profit on (a+b+c)

=@	10%		2116.61
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Rate for 120 cum = a+b+c+d

23282.69

Rate per cum = (a+b+c+d)/120

194.02

Add royalty with comensation charge Rs.23.65 / cum

23.65

FINISHED RATE

CUM

217.67

4.1 Granular Sub-base with Well Graded Material (Table 400.1)

(A) By Mix in Place Method

Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.

(ii) For Grading II Material

Unit = cum

Taking output = 300 cum

a) Labour

Mate

day	0.48	305.00	146.40
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Mazdoor (Skilled)

day	2.00	364.00	728.00
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Mazdoor (Unskilled)

day	10.00	287.00	2870.00
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b) Machinery

Motor Grader 110 HP @ 50 cum per hour

hour	6.00	2,786.00	16716.00
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Three wheel 80-100 kN static roller @ 10 cum per hour

hour	30.00	803.00	24090.00
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Tractor with Rotavator 25 cum per hour

hour	12.00	573.20	6878.40
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Water tanker 6 kl capacity

hour	5.00	184.00	920.00
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FDR
 Name of Road - DHAUR Chhapra to Parmanand Chhapra
 Block - Amnour

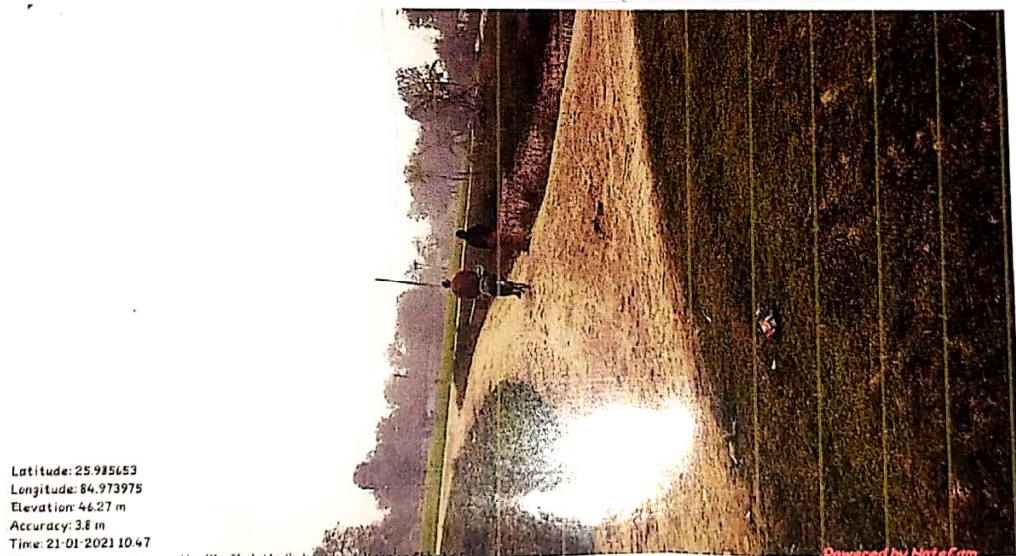


20/7/21
 J.E. An
 21.1.21
 R

Name of Road → Dhaur Chapra to Parmanand Chapra
Block - Amnour



21/11/21
J.B. R
28.1.21
R



20/1/21
J.G.A.

21.1.21
A