

42R 2020

(11)



ग्रामीण कार्य विभाग

- (पथ का नाम :- डीहवार स्थान से टी.ए. 3
कार्य प्रमण्डल :- बेनीपुर।
कार्य अंचल :- दरभंगा।
प्रखण्ड का नाम :- अलीनगर।
प्राक्कलित राशि :- $\frac{5,79,734}{20,01,741.00} = 0.28$
5,79,734 = 28

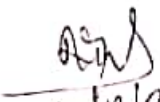
प्रतिवेदन

पथ का नाम :- डी.एल. स्पा. रो. टी. 03
पथ की लं० :- 1.250 कि.मी०
प्राक्कलित राशि :- ~~26,61,754.00~~
5,79,134.00

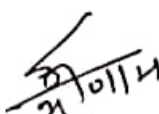
माह जुलाई अगस्त में हुई अतिवृष्टि के फलस्वरूप विभिन्न नदियों एवं नालों में आये बाढ़ के चलते अधिकांश पथ क्षतिग्रस्त हो गये एवं यातायात बाधित हो गया।

जनता की परेशानी, एवं आने वाले आम चुनाव (बिहार विधान सभा) एवं विभागीय आदेश -मु० अ०-04मु० विविध कार्य 23-40/2016-2729अनु० दिनांक-21.08.2020 के आलोक में क्षतिग्रस्त पथों के ईट टुकड़े एवं चिमनी छाई से भरकर यातायात पुर्नस्थापन किया गया। किये गये कार्य के अनुसार प्राक्कलन तैयार कर घटनोत्तर स्वीकृति हेतु समर्पित की जा रही है। कार्यहित में प्राक्कलन की स्वीकृति अपेक्षित है।

प्राक्कलन को कार्य अंचल, दरभंगा द्वारा स्वीकृत अद्यतन दर के आधार पर तैयार कर अग्रेतर कार्यवाई हेतु समर्पित की जाती है।


15/12/2020
कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा अलीनगर,


15/12/2020
सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल अलीनगर,


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग
कार्य प्रमण्डल बेनीपुर,

Flood Estimation

Name of road :- Dihwar Bypass to
TOB road

- ① Providing and laying bridge
providing after bridge work
including loading, unloading &
light carrying all complete job

$$\begin{aligned}
 \text{CH 267m} &- 1 \times 28.00 \times 1.50 \times \frac{0.15}{2} = 6.30 \text{ m}^3 \\
 700 &- 1 \times 30.00 \times 1.50 \times \frac{0.15}{2} = 6.75 \text{ m}^3 \\
 600 &- 1 \times 10.00 \times 2.00 \times \frac{(0.60+0.90)/2}{2} = 15.00 \text{ m}^3 \\
 800 &- 1 \times 15.00 \times 1.50 \times \frac{(0.90+1.30+1.50)/3 \times (0.30+0.60)/2}{2} = 8.30 \text{ m}^3 \\
 1500 &- 1 \times 50.00 \times 2.00 \times \frac{(0.75+1.00)/2}{2} = 87.50 \text{ m}^3 \\
 1100 &- 1 \times 20.00 \times 2.00 \times \frac{(0.45+0.90)/2}{2} = 27.00 \text{ m}^3 \\
 1050 &- 1 \times 60.00 \times \frac{54.00}{2} \times \frac{(0.60+1.50)/2 \times (0.45+0.60+0.60)/3}{2} = 31.18 \text{ m}^3 \\
 11 &- 1 \times 13.00 \times \frac{2.00+1.00}{2} \times \frac{(0.60+0.95)/2}{2} = 15.01 \text{ m}^3 \\
 630 &- 1 \times 30.70 \times \frac{(1.00+3.00)/2 \times (0.90+1.20)/2}{2} = 64.47 \text{ m}^3
 \end{aligned}$$

$$\begin{aligned}
 \text{T. Qty} &- 261.51 \text{ m}^3 \quad 488,438 = 00 \\
 261.51 \text{ m}^3 @ 1267.78 &- 16,86,506.20
 \end{aligned}$$

Add 12% C.S.F.

Add 1% L.C

$$\text{Add S.P} - \frac{261.51}{100} \times 1063.00 \times 0.10 = 27,799.00$$

$$\begin{aligned}
 &488,438 = 00 \\
 &16,86,506.20 \\
 &27,799 = 00 \\
 \hline
 &18,12,741.20
 \end{aligned}$$

$$5,79,734 = 00$$

18/12/2020
T.B

5/12/2020
A.R

Say Rs 5,79,734/-

B.R P.T.D.

FOR FDR JULY 2020.

Providing and Laying of Bricks bats with Carriage by Tractor loading with front end loader with light tinning etc all complete job as per specification and direction of E/S.

BY TRACTOR. (Without C.P) For Departmental Work

① Surface lead = 7 K.M } 8 K.M
Katchha lead = 1 K.M }
Factor [3.6/2.25] = 1.60
i.e Carriage Cost (with OH) = $[(1.60 \times 7 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39]$
= Rs. 418.71
say Total Cost PMB = Rs. 1126.78 (Bricks bats with OH)
+ Rs. 418.71 [Carriage Cost with OH]
+ Rs. 322.27 [Labour Cost with OH]
Total Rs. 1867.76 [Without GST + LC + SF]
PMB

② Surface lead = 6 K.M / Katchha = 1 K.M / Factor = 1.60
Carriage Cost (with OH) = $[(1.60 \times 6 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39]$
= Rs. 391.11
Total Cost of Bricks bats PMB = Rs. 1126.78
+ Rs. 391.11
+ Rs. 322.27
Total Rs. 1840.16 PMB [Without GST + LC + SF]

③ Surface lead = 5 K.M / Katchha = 1 K.M / Factor = 1.60
Carriage Cost (with OH) = $[(1.60 \times 5 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39]$
= Rs. 363.51
Total Cost of Bricks bats PMB = 1126.78
+ 363.51
+ 322.27
Total Rs. 1812.56 PMB [Without GST + LC + SF]

④ Surface lead 4 K.M / Katchha = 1 K.M / Factor = 1.60
Carriage Cost (with OH) = $[(1.60 \times 4 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39]$
= Rs. 335.91
Total Cost of Bricks bats PMB = 1126.78 + 335.91 + 322.27 = Rs. 1784.96
[Without GST + LC + SF]

⑤ Surface lead 3 K.M / Katchha = 1 K.M / Factor = 1.60
Carriage Cost (with OH) = $[(1.60 \times 3 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39]$
= Rs. 308.31
Total Cost of Bricks bats PMB = 1126.78 + 308.31 + 322.27 = Rs. 1757.36
[Without GST + LC + SF]

नोट:- यदि अनुमान वर्ष (यास से अक्षा/धिमनी की दूरी का अनुमान) अनुमान से दर्शाया जायेगा। साथ ही दूरी के आधार पर की दूरी की आकलन किया जायेगा।

(A) Labour for laying brick bats / shama kha including light running etc.

Unit = Per M³
 Taking output = 2.832 M³
 Unskilled Mason = 3 Nos @ 287.00 = Rs 861.00
 6% OH = Rs 51.66
 Rate for 2.832 M³ = Rs 912.66
 Rate per M³ = Rs 322.27 ✓

(B) Haulage excluding loading and unloading, stacking

Haulage of Materials by Tractor

Unit = t.km
 Taking output 3.60 tonnes load and lead 10 km = 36.0 t.km

(i) Surface Road

Speed with load = 15 km/hour
 Speed while returning empty = 25 km/hour

(ii) Machinery

Tractor 3.6 tonne Capacity
 Time taken for one trip = 0.667 @ 549.10/hour = Rs 366.25
 Haulage with load
 Time taken for empty return = 0.400 @ 549.10/hour = Rs 219.64
 Rs 35.15

(iii) Over head (OH) charge 5%

Cost for 36 t.km = Rs 621.04
 Rate per t.km = Rs 17.25 ✓

(ii) Katchha Road:

Speed with load 12 km/hour
 Speed for empty return trip 20 km/hour

(iii) Machinery

Tractor 3.6 tonne Capacity
 Time taken for one haulage with load = 1.00 @ 549.10/hour = Rs 549.10
 Time taken for empty return trip = 0.667 @ 549.10/hour = Rs 366.25
 Rs 54.92

(iv) OH 5%

Cost for 36 t.km = Rs 970.27
 Rate per t.km = Rs 26.95 ✓

(C) Loading and unloading brick bats / shama kha / sand etc.

placing tractor at loading point, loading with front loader, dumping, turning for return trip, extending haulage and return trip.

Unit = cum / Taking output = 2.25 M³ / Time required for 6 minutes

(i) Labour

Rate = 0.03 @ 305 = Rs 9.15

Unskilled Labour for loading and unloading = 0.72 @ 287 = Rs 206.64

(ii) Machinery

Tractor 3.6 t Capacity 0.1 @ 549.10/hour = Rs 54.91
 front end loader 1 cum bucket capacity 0.083 @ 1402.00/h = Rs 116.45
 Rs 231.23

(iii) Over head (OH) = 5%

Cost for 2.25 M³ = Rs 410.38
 Rate per M³ = Rs 182.39 ✓

Bamboo piling items.

- ① Labour for cutting ^{62mm to} 75mm dia bamboo pile to site ...
Making shoes and driving by jet Machine, etc at complete job.

Taking out put = 200M
Unit = Per/metre.

(i) Labour

(a) Unskilled Magsdon	= 5 Nos	@ Rs. 287.00	Rs 1435.00
(b) Semi Skilled Magsdon	= 1 No	@ Rs. 299.00	Rs 299.00
(c) Carpenter Gr II	= 1.5 Nos	@ Rs. 345.00	Rs 517.50
(d) Drill operator	= 1.00 No	@ Rs. 345.00	Rs 345.00
Total:			Rs 2596.50 (A)

(ii) Machinery

(a) Hire charge of boat 40 quintal capacity	= 2 Nos.	@ 1872.00	Rs 3744.00
(b) Hire charge of diesel pump (pumping set)	= 1 No	@ 3000.00	Rs 3000.00
(c) Diesel for pumping set	= 8 Lit	@ 77.00	Rs 616.00
(d) Hire charge of jet pipe and pipe assembly	= 1 No	@ 200.00	Rs 200.00
Total			Rs 4860.00 (B)

Total (A+B) = Rs 7456.50

Add 6% OH Rs 447.39

For 200M = Total Rs 7903.89

P/M = 39.52

- ② Labour for fitting & fixing 62mm to 75mm dia Bamboo runners -
in position at every vertical pile with 150mm long nail or 3A swg G.I wire including cost of G.I wire and nails etc at complete job.

Taking out put = 30.50M
Unit = Per M

(i) Labour:-

(a) Carpenter Gr II	= 0.125 Nos	@ Rs. 345.00	Rs 43.125
(b) Unskilled Magsdon	= 0.25 Nos	@ Rs. 287.00	Rs 71.750

(ii) Materials:-

Cost of 150mm long 0.50 kg - nails or G.I. wires	@ Rs 60.03	Rs 30.02
Total		Rs 144.895

Add 6% OH Rs 8.690

Total = ~~153.585~~

For 30.5 M → 153.585

P/Metre → Rs 5.04 ✓

1				
A.				
Supplying of Sand Bag (with OH)				
Basic Rate of Sand Bag (including cmt+sand)				
Add overhead Charges				
Total	Per Bag	5%	8.25	3.25
1 No Cement Bag filled with 40 kg./1.2 Cuft Sand				0.53
Conversion factor :1m3=35.3146667ft3				9.39
1) Cubic Meter= Cubic Foot/35.3146667				
2) Cubic Meter= 1.2/35.3146667				
3) Cubic Meter=0.034				
Hence 1 No. Sand Bag Filled with 0.034				
Tractor				
Surface Lead	KM	2		
Katcha Lead	KM	1		
Factor(3.6/2.25)	Cum	1.6		
Carriage (with OH)				
$(1.6 \times 2 \times 17.25) + (1.6 \times 1 \times 26.95) + 182.39$				280.71
Cost of Carriage of Sand in Filling of Sand Bag				
Cost of Labour for Filling Sand Bag, stitching and Placing (with OH)				
Total (A+B+C)=9.39+9.52+5.20				25.11
Total Cost per Bag (without Gst+Lc+Sl)				25.11

B.

C.

Dihwar Asthan to T03



Latitude: 26.067203
Longitude: 86.165161
Elevation: 2100.0 m
Accuracy: 2100.0 m
Time: 22-12-2020 13:08
NOTE: DIHWAR ASTHAN TO T03

hcf

df

df



Latitude: 26.066048
Longitude: 86.165976
Elevation: 44.32 m
Accuracy: 44.32 m
Time: 22-12-2020 13:09
NOTE: DIHWAR ASTHAN TO T01 ch 1.50m

Powered by NoteCam



Latitude: 26.066071
Longitude: 86.165845
Elevation: 45.28 m
Accuracy: 70.8 m
Time: 22-12-2020 13:08
NOTE: DIHWAR ASTHAN TO T03 50.800m

hcf

J.F

hcf

A-E



Latitude: 26.065243
Longitude: 86.166326
Elevation: 3400.0 m
Accuracy: 3400.0 m
Time: 22-12-2020 13:16
NOTE: DIHWAR ASTHAN TO T03 1.50m

Powered by NoteCam

hcf

E-E



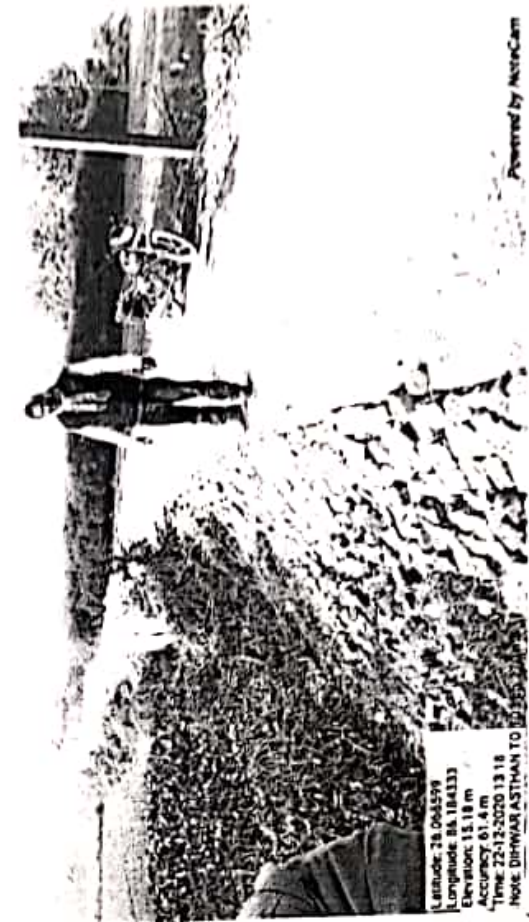
DPW

Q15



DPW

S.E



DPW

A.E



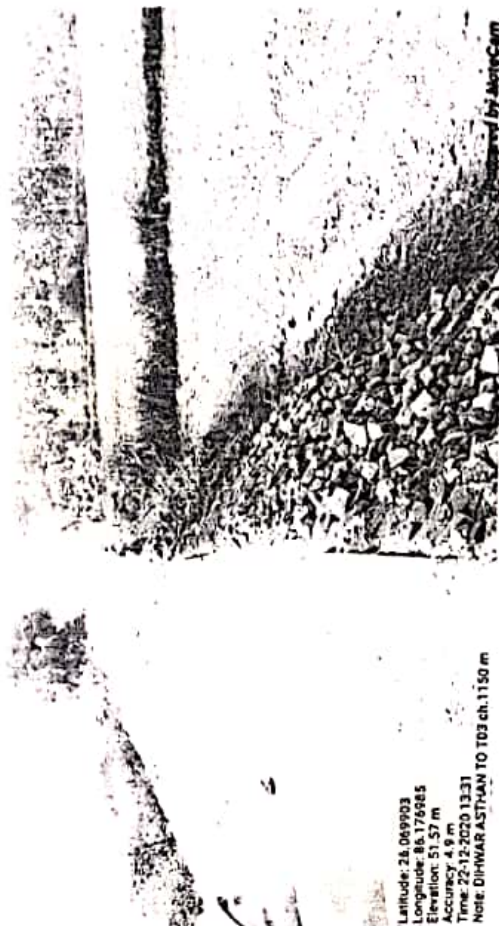
Latitude: 26.06581
Longitude: 86.18624
Elevation: 4733 m
Accuracy: 34.8 m
Time: 22-12-2020 13:10
NOTE: DIHWAR ASTHAN TO T03 ch 750m

Handwritten: D
D



Latitude: 26.06687
Longitude: 86.184109
Elevation: 1339 m
Accuracy: 75.3 m
Time: 22-12-2020 13:19
NOTE: DIHWAR ASTHAN TO T03 ch 270 m

Handwritten: D



Latitude: 26.069903
Longitude: 86.176985
Elevation: 5157 m
Accuracy: 4.9 m
Time: 22-12-2020 13:31
NOTE: DIHWAR ASTHAN TO T03 ch 1150 m

Handwritten: T.E



Latitude: 26.069372
Longitude: 86.177745
Elevation: 3983 m
Accuracy: 4.9 m
Time: 22-12-2020 13:30
NOTE: DIHWAR ASTHAN TO T03 ch 1150 m

Handwritten: A.E

2019
 2
 2019



Latitude: 26.065988
 Longitude: 86.186059
 Elevation: 38.63 m
 Accuracy: 55.7 m
 Time: 22-12-2020 13:09
 Note: DIRMAR ASTHAN TO T03 ch 1000

Powered by MetaCam



Latitude: 26.067095
 Longitude: 86.184006
 Elevation: 45.24 m
 Accuracy: 113.5 m
 Time: 22-12-2020 13:28
 Note: DIRMAR ASTHAN TO T03 ch 1050 m

2019

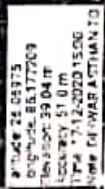
T-8

2019

A-8

2019

2/19/97



NOTE: CRAWFORD@STHAW.TEDCH1.COM

100

3

Fi.

A-E

3. A.



Latitude: 25.069022
Longitude: 86.177814
Elevation: 52.95 m
Accuracy: 19.0 m
Time: 12:05:03.1502
NOTE: DYNAMIC ESTIMATE TO
POWERED BY NOTECAM

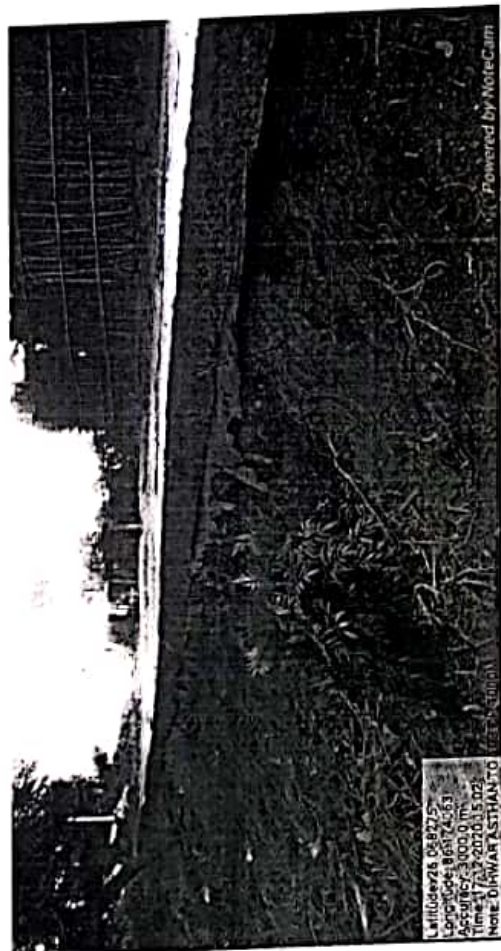
Powered by NoteCam



Handwritten notes: $\frac{1.2}{1.2}$ and $\frac{1.2}{1.2}$

Handwritten note: $\frac{1.2}{1.2}$

Handwritten note: $\frac{1.2}{1.2}$



Latitude: 25.069022
Longitude: 86.177814
Elevation: 52.95 m
Accuracy: 19.0 m
Time: 12:05:03.1502
NOTE: DYNAMIC ESTIMATE TO
POWERED BY NOTECAM

Handwritten note: $\frac{1.2}{1.2}$

Handwritten note: I.E



Latitude: 25.069022
Longitude: 86.177814
Elevation: 52.95 m
Accuracy: 19.0 m
Time: 12:05:03.1502
NOTE: DYNAMIC ESTIMATE TO
POWERED BY NOTECAM

Handwritten note: $\frac{1.2}{1.2}$

Handwritten note: A-E

Handwritten note: $\frac{1.2}{1.2}$

Handwritten note: E-E



Latitude 26.028931
Longitude 85.177716
Altitude 20.35 m
Accuracy 4.9 m
Time 20-12-2023 14:05
Note: Camera tilted at 10.3

2/14

A.E



Latitude 26.028931
Longitude 85.177716
Altitude 20.35 m
Accuracy 4.9 m
Time 20-12-2023 14:05
Note: Camera tilted at 10.3

2/14



Latitude 26.028931
Longitude 85.177716
Altitude 20.35 m
Accuracy 4.9 m
Time 20-12-2023 14:05
Note: Camera tilted at 10.3

2/14
S.E

A.E



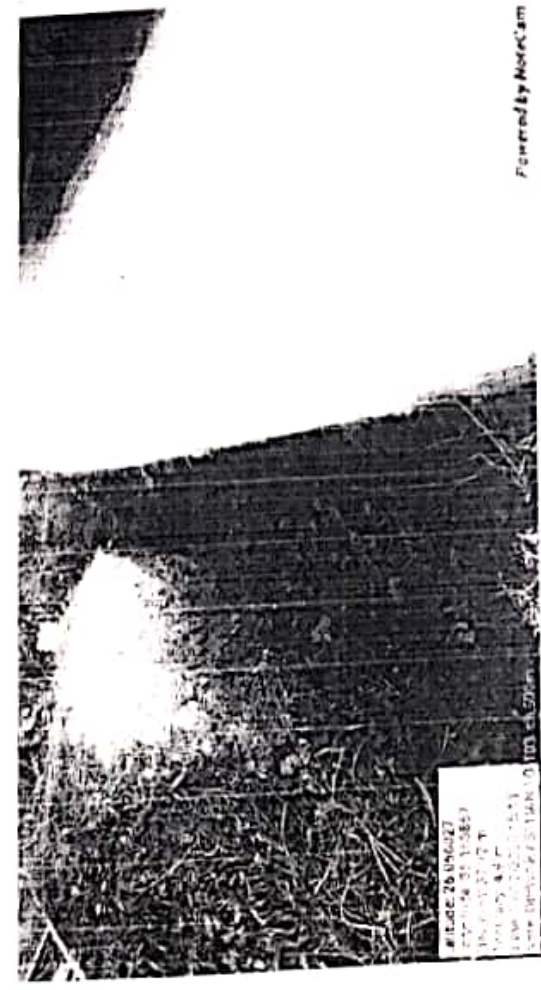
Latitude 26.028931
Longitude 85.177716
Altitude 20.35 m
Accuracy 4.9 m
Time 20-12-2023 14:05
Note: Camera tilted at 10.3

2/14

3.3
3.4
3.5



3.3
3.4
3.5



3.3
3.4
3.5