

7.08.2020

(24)



## ग्रामीण कार्य विभाग

पथ का नाम :- 2012 गुरुदीनपुर कल्याण से इन्फ्रास्ट्रक्चर  
कार्य प्रमण्डल :- बेनीपुर।  
कार्य अंचल :- दरभंगा।  
प्रखण्ड का नाम :- अलीनगर।  
प्राक्कलित राशि :- <sup>2,08,231.00</sup>  
~~4,36,723.00~~

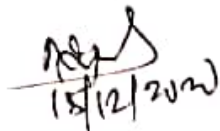
## प्रतिवेदन

पथ का नाम : श्री 2-क सुदुनीन पुर नदीय से हुनुमान नगर  
पथ की लं० :- 2.532 मीटर  
प्राक्कलित राशि :- 4,56,923.40  
2108/231-80

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।

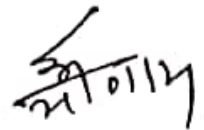
प्राक्कलन को कार्य अंचल, दरभंगा द्वारा स्वीकृत अद्यतन दर के आधार पर तैयार कर अग्रेतर कार्यवाई हेतु समर्पित की जाती है।

  
18/12/2020

कनीय अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रशाखा अलीनगर,

  
15/11/2020

सहायक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य अवर प्रमण्डल अलीनगर,

  
21/11/20

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमण्डल बेनीपुर,

# flood estimate

Name of Road- To2 Nuruddin pur Dasauth To  
Hanuman Nagar.

Item No ① providing & laying brick pitching with  
brick bats including loading, un-loading  
and light ramming all complete job.

|        |        |                                             |                                             |                                                             |
|--------|--------|---------------------------------------------|---------------------------------------------|-------------------------------------------------------------|
| CH-    |        |                                             |                                             |                                                             |
| 100m.  | 30.00m | X <del>4.00m</del> <sup>3.50m</sup>         | X <del>0.90m</del> <sup>0.30m</sup>         | <del>81.00m<sup>3</sup></del> <sup>31.50m<sup>3</sup></sup> |
| 110m.  | 4.00m  | X 2.00m                                     | X 0.30m                                     | 2.40m <sup>3</sup>                                          |
| 150m.  | 1.00m  | X <del>3.80m</del> <sup>3.00m</sup>         | X 0.40m                                     | <del>1.52m<sup>3</sup></del> <sup>1.20m<sup>3</sup></sup>   |
| 180m.  | 1.50m  | X <del>3.80m</del> <sup>3.00m</sup>         | X 0.40m                                     | <del>2.28m<sup>3</sup></del> <sup>1.80m<sup>3</sup></sup>   |
| "      | 3.00m  | X 2.50m                                     | X <del>0.50m</del> <sup>0.30m</sup>         | <del>3.75m<sup>3</sup></del> <sup>2.25m<sup>3</sup></sup>   |
| 200m.  | 25.00m | X 3.50m                                     | X <del>0.60m</del> <sup>(0.30+0.45)/2</sup> | <del>52.50m<sup>3</sup></del> <sup>32.81m<sup>3</sup></sup> |
| 250m.  | 10.00m | X <del>3.80m</del> <sup>3.25m</sup>         | X <del>0.80m</del> <sup>(0.40+0.30)/2</sup> | <del>30.40m<sup>3</sup></del> <sup>11.37m<sup>3</sup></sup> |
| 600m.  | 2.00m  | X 1.50m                                     | X <del>0.80m</del> <sup>0.45m</sup>         | <del>2.40m<sup>3</sup></del> <sup>1.35m<sup>3</sup></sup>   |
| 750m.  | 5.00m  | X 1.00m                                     | X <del>0.50m</del> <sup>0.30m</sup>         | <del>2.50m<sup>3</sup></del> <sup>1.50m<sup>3</sup></sup>   |
| 800m.  | 3.00m  | X 2.00m                                     | X <del>0.70m</del> <sup>0.35m</sup>         | <del>4.20m<sup>3</sup></del> <sup>2.10m<sup>3</sup></sup>   |
| 900m.  | 2.00m  | X 1.50m                                     | X <del>0.60m</del> <sup>0.25m</sup>         | <del>1.80m<sup>3</sup></del> <sup>0.75m<sup>3</sup></sup>   |
| 1400m. | 7.00m  | X <del>3.50m</del> <sup>(1.50+2.50)/2</sup> | X <del>0.50m</del> <sup>0.35m</sup>         | <del>12.25m<sup>3</sup></del> <sup>4.90m<sup>3</sup></sup>  |

~~Total = 197.00m<sup>3</sup>~~  
@ 4-93.93m<sup>3</sup>

93.93m<sup>3</sup> @ 1867.76 / m<sup>3</sup> —

Add — 12% G.S.T —

Add — 1% L.C. —

Add — S.f. 10% —

~~197.00m<sup>3</sup>~~ X 1063.00 X 0.10 —

C.O — Total =

175,439.00  
3,67,949.00  
21053.00  
41,154.00  
1754.00  
3,67,949.00

9985.00  
20,991.00

4,36,723.00  
208231.00

B.f —  $\frac{2,08,231.00}{4,36,773.00}$  936723.1

15/12/2020  
J. R.  
Alivayam

15/12/2020  
A. R.  
Alivayam

15/12/2020  
R. R.  
Bengaluru

कार्यपालक अभियंता, ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, जयनगर के पत्रांक 798 अनु०  
दि० 05.04.2021 के द्वारा समर्पित जाँच  
प्रतिवेदन के आधार पर —

Post facto T/A for ₹ 2,08,231.00  
(Rupees two lacs, eight thousand, two  
hundred & thirty one) only—

14.04.21

Superintending Engineer  
RWD, Works Circle, Darbhanga  
14/04/2021



FOR FDR July 2020.

Providing and laying of brick bats with Carriage by Tractor loading with front end loader with light trimming etc. all complete job as per specification and direction of Jt. E. E.

BY TRACTOR. (without C.P.) for departmental work

$$\textcircled{1} \quad \begin{aligned} &\text{Surface lead} = 7 \text{ K.M.} \\ &\text{Katchha lead} = 1 \text{ K.M.} \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} 8 \text{ K.M.} \\ \text{Factor } [3.6/25] = 1.60 \\ \text{ie Carriage Cost (with OH)} = [(1.60 \times 7 \text{ K.M.} \times 17.25) + (1.60 \times 1 \text{ K.M.} \times 26.95) + 182.39] \\ = \text{Rs. } 418.71$$

$$\begin{aligned} \text{say Total Cost of Bricks } P.M.B. &= \text{Rs. } 1126.78 \text{ [Bricks bats with OH]} \\ &+ \text{Rs. } 418.71 \text{ [Carriage Cost with OH]} \\ &+ \text{Rs. } 322.27 \text{ [Labour Cost with OH]} \\ \text{Total Rs. } 1867.76 &\text{ [without GST + LC + SF]} \end{aligned}$$

$$\textcircled{2} \quad \text{Surface lead} = 6 \text{ K.M.} / \text{Katchha} = 1 \text{ K.M.} / \text{Factor} = 1.60$$

$$\text{Carriage Cost (with OH)} = [(1.60 \times 6 \text{ K.M.} \times 17.25) + (1.60 \times 1 \text{ K.M.} \times 26.95) + 182.39] \\ = \text{Rs. } 391.11$$

$$\begin{aligned} \text{Total Cost of Bricks bats } P.M.B. &= \text{Rs. } 1126.78 \\ &+ \text{Rs. } 391.11 \\ &+ \text{Rs. } 322.27 \end{aligned}$$

$$\text{Total Rs. } 1840.16 \text{ P.M.B. [without GST + LC + SF]}$$

$$\textcircled{3} \quad \text{Surface lead} = 5 \text{ K.M.} / \text{Katchha} = 1 \text{ K.M.} / \text{Factor} = 1.60$$

$$\text{Carriage Cost (with OH)} = [(1.60 \times 5 \text{ K.M.} \times 17.25) + (1.60 \times 1 \text{ K.M.} \times 26.95) + 182.39] \\ = \text{Rs. } 363.51$$

$$\begin{aligned} \text{Total Cost of Bricks bats } P.M.B. &= 1126.78 \\ &+ 363.51 \\ &+ 322.27 \end{aligned}$$

$$\text{Total Rs. } 1812.56 \text{ P.M.B. [without GST + LC + SF]}$$

$$\textcircled{4} \quad \text{Surface lead} = 4 \text{ K.M.} / \text{Katchha} = 1 \text{ K.M.} / \text{Factor} = 1.60$$

$$\text{Carriage Cost (with OH)} = [(1.60 \times 4 \text{ K.M.} \times 17.25) + (1.60 \times 1 \text{ K.M.} \times 26.95) + 182.39] \\ = \text{Rs. } 335.91$$

$$\begin{aligned} \text{Total Cost of Bricks bats } P.M.B. &= 1126.78 + 335.91 + 322.27 = \text{Rs. } 1784.96 \\ &\text{[without GST + LC + SF]} \end{aligned}$$

$$\textcircled{5} \quad \text{Surface lead} = 3 \text{ K.M.} / \text{Katchha} = 1 \text{ K.M.} / \text{Factor} = 1.60$$

$$\text{Carriage Cost (with OH)} = [(1.60 \times 3 \text{ K.M.} \times 17.25) + (1.60 \times 1 \text{ K.M.} \times 26.95) + 182.39] \\ = \text{Rs. } 308.31$$

$$\begin{aligned} \text{Total Cost of Bricks bats } P.M.B. &= 1126.78 + 308.31 + 322.27 = \text{Rs. } 1757.36 \\ &\text{[without GST + LC + SF]} \end{aligned}$$

नोट:- मिट्टी/पुर्त कर के साथ ही इस/विमर्श की कृपे का प्रमाण प्रस्तुत करें इसका जमावा। साथ ही इसी के आधार पर ही पुर्त कर की अंतिम किंमत जमावा।



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

Unit = Per M<sup>3</sup>  
 Taking output = 2.832 M<sup>3</sup>  
 Unskilled Manpower = 3 Nos @ 287.00 = Rs 861.00  
 6% OH = Rs 51.66  
 Rate for 2.832 M<sup>3</sup> = Rs 912.66  
 Rate per M<sup>3</sup> = Rs 322.27 ✓

(B) Haulage excluding Loading and unloading, spreading  
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

(a) Machinery

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

(b) Over head (OH) charge 6%

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

(a) 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

(b) OH = 6%

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 spot, loading with front loader, dumping, turning for return trip, excluding haulage and return trip.

Unit = cum. / Taking output = 2.25 M<sup>3</sup> / Time required = 6 minutes

(i) Labour

Rate = 0.03 @ 305 = w/dup = Rs 9.15

Unskilled Labour for loading/unloading = 0.72 @ 287/dup = Rs 206.64

(ii) Machinery

Tractor 3.6 t Capacity 0.1 @ 549.10/hour = Rs 54.91

Front end loader 1 cu capacity 0.083 @ 1402.00/h = Rs 116.45

Rs 23.23

(iii) Over head (OH) = 6%

Cost for 2.25 M<sup>3</sup> = Rs 410.38  
 Rate per M<sup>3</sup> = Rs 182.39 ✓



## Bamboo piling items.

- ① Labour for cutting <sup>62mm to</sup> 75mm dia bamboo pile to site...  
Making shoes and driving by jet machine, etc all complete job.

Taking output = 200M  
Unit = Per/metre.

### (i) Labour

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

### (ii) Machinery

|                                                      |           |                |
|------------------------------------------------------|-----------|----------------|
| (a) Hire charge of boat 40 quintal capacity = 2 Nos. | e 1872.00 | Rs 3744.00     |
| (b) Hire charge of diesel pump (pumping set) = 1 No  | e 300.00  | Rs 300.00      |
| (c) Diesel for pumping set = 8 Lit                   | e 77.00   | Rs 616.00      |
| (d) Hire charge of jet pipe and pipe assembly = 1 No | e 200.00  | Rs 200.00      |
| Total:                                               |           | Rs 4860.00 (B) |

Total (A+B) = Rs 7456.50

Add 6% CH Rs 447.39

For 200M = Total Rs. 7903.89

P/M = 39.52 ✓

- ② Labour for fitting & fixing 62mm to 75mm dia Bamboo summer -  
in position at every vertical pile with 150mm long nail or 38 Swg G.I wire including cost of G.I wire and nails etc all complete job.

Taking output = 30.50M  
Unit = Per M

### (i) Labour:-

|                                 |              |           |
|---------------------------------|--------------|-----------|
| (a) Carpenter Gr II = 0.125 Nos | e Rs. 345.00 | Rs 43.125 |
| (b) Unskilled Muddoor = 0.25 No | e Rs. 287.00 | Rs 71.750 |

### (ii) Material:-

|                            |            |          |
|----------------------------|------------|----------|
| Cost of 150mm long 0.50 kg | e Rs 60.03 | Rs 30.02 |
| - nails or G.I. wires      |            |          |

Total = Rs 144.895

Add 6% CH = 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 cbt+sand)        |         |        |        |        |       |
| Add overhead Charges                               |         |        |        |        |       |
| Total                                              | Per Bag | 6%     | 8 1/2% | 8.26   |       |
| 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*2*17.25)+(1.6*1*26.95)+182.39                 |         |        |        |        |       |
| Cost of Carriage of Sand in Filling of Sad Bag     |         |        |        | 280.71 |       |
| Cost of Labour for Filling Sand Bag, stitching and |         | 280.71 | 0.034  | 9.52   |       |
| 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.



ITD2 Nurdudin pur Dasaut TO Hanuman Nagar



Latitude: 25.102778  
Longitude: 83.275000  
Elevation: 9.58 m  
Accuracy: 20.9 m  
Time: 15-12-2020 15:37  
Note: ITD2 NURDUDIN PUR DASAUT TO HANUMAN NAGAR

कार्य के बाद



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कार्य के बाद



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Note: ITD2 NURDUDIN PUR DASAUT TO HANUMAN NAGAR

कार्य के बाद

ITD2  
J.E

ITD2  
A.E

ITD2  
J.E





Handwritten signature

J.E

Handwritten signature

A.E

Handwritten signature

E.E



T02 Nurruddin pur Dasauth TD Hanuman Nagar.



Latitude: 26.100731  
Longitude: 84.281845  
Elevation: 57.72 m  
Accuracy: 4.9 m  
Time: 15-12-2020 15:59  
Note: T02 NURUDDIN PUR DASAUT TD HANUMAN NAGAR IN ROOM

कार्य के बाद



Latitude: 26.100731  
Longitude: 84.281845  
Elevation: 57.72 m  
Accuracy: 4.9 m  
Time: 15-12-2020 15:59  
Note: T02 NURUDDIN PUR DASAUT TD HANUMAN NAGAR IN ROOM

कार्य के बाद



Latitude: 26.100731  
Longitude: 84.281845  
Elevation: 57.72 m  
Accuracy: 4.9 m  
Time: 15-12-2020 15:59  
Note: T02 NURUDDIN PUR DASAUT TD HANUMAN NAGAR IN ROOM

कार्य के बाद



Latitude: 26.100731  
Longitude: 84.281845  
Elevation: 57.72 m  
Accuracy: 4.9 m  
Time: 15-12-2020 15:59  
Note: T02 NURUDDIN PUR DASAUT TD HANUMAN NAGAR IN ROOM

कार्य के बाद

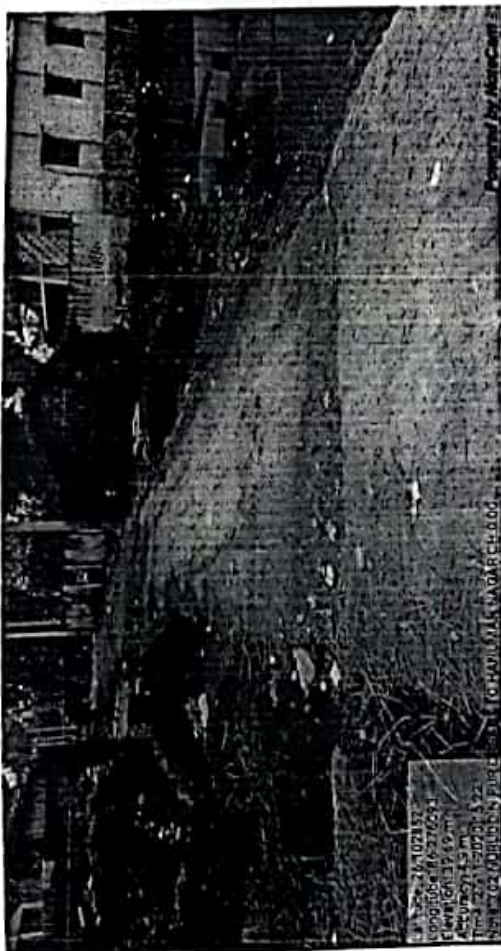
Handwritten signature and initials J.E.

Handwritten signature and initials A.E.

Handwritten signature and initials E.E.



Road N- TO2 Nundellon pur Dusant to Hamuman Nagar



back of



front



3.3  
Nundellon



3.3  
Nundellon





24-10-20



24-10-20



24-10-20



24-10-20