



ग्रामीण कार्य विभाग

पथ का नाम :- 701 से नारायणपुर तक पथ -
कार्य प्रमण्डल :- बेनीपुर।
कार्य अंचल :- दरभंगा।
प्रखण्ड का नाम :- तारडीह।
प्राक्कलित राशि :- ~~1,60,975.00~~
1,60,364.00

Ministry of P.W.D.

प्रतिवेदन

पथ का नाम :- 101 री नारायणपुर तक पथ ।
पथ की लं० :- 3.38 KM
प्राक्कलित राशि :- 1,60,975/-

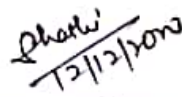
यह प्राक्कलन मो०.....1,60,975/-.....का बनाया गया है। ज्ञातव्य हो कि विगत माह जुलाई-अगस्त 2020 में अतिवृष्टि एवं बाढ़ के कारण तारडीह प्रखण्ड के बहुत से सड़क में टुटान हो गया। विभागीय आदेश -मु० अ०-04(मु०) विविध कार्य 23-40/2016-2729 अनु० दिनांक-21.08.2020 एवं कार्यपालक अभियंता महोदय के आदेश के अनुपालनार्थ यह प्राक्कलन बनाया गया है। प्राक्कलन में सड़क की अधिक गड्ढी खाई में मिट्टी भरकर तदनुपरान्त ईट टुकड़ा की एक समुचित परत डाल कर यात्रयात सुलभ हेतु मजबुतीकरण की गई है। फलैंक में क्रॉस पाइलिंग के उपरान्त सीमेंट की खाली बोरी में स्थानीय बालू भरकर सीमेंट कंक्रीट सड़क को बचाने का काम किया गया है।

प्राक्कलन वर्तमान में कार्य अंचल दरभंगा की अनुसूचित दर पर तैयार किया गया है।

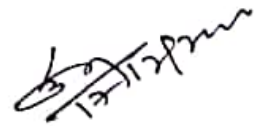
प्राक्कलन की स्वीकृति कार्य हीत एवं जनहीत में अपेक्षित है।


12/11/2020

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा तारडीह


12/11/2020

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



कार्यपालक अभियंता,
ग्रामीण कार्य विभाग
कार्य प्रमण्डल बेनीपुर

Abstract of Cost.

1. पथ का नाम :- 781st नारायणापुर तक
2. प्राक्कलित राशि :- 1,60,975 = 00
3. कार्य प्रमण्डल :- बेनीपुर।
4. प्रखण्ड :- तारडीह।

- i. Providing and laying of brick bats in with carriage by tractor loading with front end loader with light ramming etc all complete jobs as per specifications and direction of E/I.

73.37

73.65 M³ @ Rs 1840.16 / M³

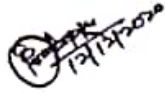
Add U.S.T 12-1.

Add 1-1 L.C

Add S.F — 73.65 M³ x 1063 x 10% = 7829 = 00

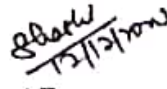
135,013.00
+ 25,528 = 00
160,541.00
+ 6,263 = 00
166,804.00
+ 350.00
167,154.00

Rs 1,60,975 = 28
or Rs 1,60,975 = 00
160,364.00



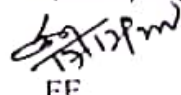
JE

RWD, Work section
Tardih.



AE

RWD, Works Sub division
Tardih.

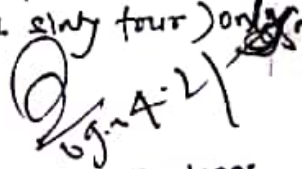


EE

RWD, Works Division
Benipur.

कमिश्नरियत, तारडीह, बिहार - जमनापुर का पत्रांक - 798 अम/क्रां. 07.04.2021 के द्वारा सन्निहित कार्य प्रविष्टि के आधार पर -

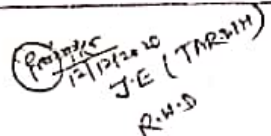
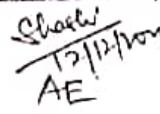
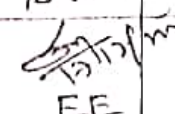
Net fact T/A for Rs 1,60,364.00 (Rupees one lac —
Siny thousand three hundred sixty four) only.



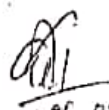
Superintending Engineer
RWD, Works Circle, Darbhanga

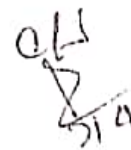
DR-2020-21
 पथ का नाम - 701 से नारायणपुर तक पथ - 3.38km
 वर्क का नाम - (तारतीह)

[Road Damage Road estimate - 2020-21]

Steps of work		Qty
1) Providing and laying of Brick Bats with carriage by tractor loading with front end loader with light ramming etc all complete job as per E/I		
Charges (m)	Length (m)	Measurement details.
0	—	
1400M	9.50M	$9.50M \times \left(\frac{3.40 + 3.50}{2} \right) \times 0.20M (AV) = 6.56M^3$
	13.0M	$13M \times \left(\frac{2.80 + 3.20}{2} \right) \times 0.125M (AV) = 4.87M^3$
	20M	$20M \times \left(\frac{1.80M + 1.60}{2} \right) \times 0.30M (AV) = 10.20M^3$
2250M	2M	$2M \times \left(\frac{1.40 + 1.20}{2} \right) \times \left(\frac{0.15 + 0.25}{2} \right) = 0.65M^3$
	35M	$35M \times \left(\frac{1.1 + 0.80}{2} \right) \times \left(\frac{0.95M + 0.60}{2} \right) = 42.22M^3$
	5M	$5M \times \left(\frac{1.20 + 1.1}{2} \right) \times \left(\frac{0.40 + 1.1}{2} \right) = 5.22M^3$
	2.50M	$2.50M \times \left(\frac{2M + 2.2}{2} \right) \times \left(\frac{0.60 + 0.40}{2} \right) = 3.93M^3$
		Total Qty = 73.65M ³ = 73.65M ³
		  

Physically verified and corrected as per Site


 09.04.21
 AE


 EE

FDR: 2020-21

पथ का नाम - टी 01 से नारायणपुर तक पथ - 3.38 km

खोदक का नाम - (तारडीह)

Flood damage Road estimate - 2020-21

S.NO	Items of work	Qty
(1)	providing and laying of Brick Bats with carriage by tractor loading with front end loader with light ramming etc all complete job as per E/I	
Chaining (m)	length (m)	Measurement details.
0	—	
1400M	9.50M	$9.50M \times \left(\frac{3.40 + 3.50}{2} \right) \times 0.20M (AV) = 6.56M^3$ ✓
	13.0M	$13M \times \left(\frac{2.80 + 3.20}{2} \right) \times 0.125M (AV) = 4.87M^3$ ✓
	20M	$20M \times \left(\frac{1.80M + 1.60}{2} \right) \times 0.30M (AV) = 10.20M^3$ ✓
2200M	2M	$2M \times \left(\frac{1.40 + 1.20}{2} \right) \times \left(\frac{0.15 + 0.25}{2} \right) = 0.65M^3$ ✓
	35M	$35M \times \left(\frac{1.1 + 0.80}{2} \right) \times \left(\frac{0.95M + 0.60}{2} \right) = 34.42.22M^3$
	5M	$5M \times \left(\frac{1.20 + 1.1}{2} \right) \times \left(\frac{0.90 + 1.1}{2} \right) = 5.22M^3$
	2.50M	$2.50M \times \left(\frac{2.2 + 2.2}{2} \right) \times \left(\frac{0.60 + 0.40}{2} \right) = 3.68M^3$
		$3.93M^3$
		Total Qty = $73.37M^3$ $73.37M^3$
		$73.65M^3$ $73.65M^3$
		 J.E. (TARSIH) AE EE

FOR FDR JULY 2020.

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

BY TRACTOR. [without C.P.] For Departmental Work

$$\begin{aligned} \text{① Surface lead} &= 7 \text{ km} \\ \text{Katchha lead} &= 1 \text{ km} \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} 8 \text{ km}$$

$$\text{Factor } [3.6/2.25] = 1.60$$

$$\begin{aligned} \text{ie Carriage cost (with OH)} &= [(1.60 \times 7 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95)] + 182.36 \\ &= \text{Rs } 418.71 \end{aligned}$$

$$\begin{aligned} \text{Total cost PMB (Brick bats)} &= \text{Rs } 1126.78 \text{ (Brick bats with OH)} \\ &+ \text{Rs } 418.71 \text{ (Carriage cost with OH)} \\ &+ \text{Rs } 322.27 \text{ (Labour cost with OH)} \\ \text{Total Rs } 1867.76 & \text{ [without GST + LC + ST]} \end{aligned}$$

$$\begin{aligned} \text{② Surface lead} &= 6 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage cost (with OH)} &= [(1.60 \times 6 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95)] + 182.36 \\ &= \text{Rs } 391.11 \end{aligned}$$

$$\begin{aligned} \text{Total cost of Brick bats PMB} &= \text{Rs } 1126.78 \\ &+ \text{Rs } 391.11 \\ &+ \text{Rs } 322.27 \end{aligned}$$

$$\text{Total Rs } 1840.16 \text{ PMB [without GST + LC + ST]}$$

$$\begin{aligned} \text{③ Surface lead} &= 5 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage cost (with OH)} &= [(1.60 \times 5 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95)] + 182.36 \\ &= \text{Rs } 363.51 \end{aligned}$$

$$\begin{aligned} \text{Total cost of Brick bats PMB} &= 1126.78 \\ &+ 363.51 \\ &+ 322.27 \end{aligned}$$

$$\text{Total Rs } 1812.56 \text{ PMB [without GST + LC + ST]}$$

$$\begin{aligned} \text{④ Surface lead} &= 4 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage cost (with OH)} &= [(1.60 \times 4 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95)] + 182.36 \\ &= \text{Rs } 335.91 \end{aligned}$$

$$\begin{aligned} \text{Total cost of Brick bats PMB} &= 1126.78 + 335.91 + 322.27 \\ &= \text{Rs } 1784.96 \end{aligned}$$

$$\begin{aligned} \text{⑤ Surface lead} &= 3 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage cost (with OH)} &= [(1.60 \times 3 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95)] + 182.36 \\ &= \text{Rs } 308.31 \end{aligned}$$

$$\text{Total cost of Brick bats PMB} = 1126.78 + 308.31 + 322.27 = \text{Rs } 1757.36$$

नोट:- निर्माण कार्य का समय 5 गज/निम्न की दूरी का अनुमानित है। अधिक दूरी के लिए समय का अनुमानित है।

- (A) Labour for laying brick bats/shama khaa including light etc.

Unit = Per M³
 Taking output = 2.832 M³
 Unskilled Man/Day = 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, spacking
Haulage of Materials by Tractor

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

- (i) Surface Road

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

- (a) 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

- (b) Over head (OH) charge 6%

Cost for 36 t.k.m = Rs 621.04
 Rate for t.k.m = 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
 Rs 970.27

- (b) OH @ 6%

Cost for 36 t.k.m = Rs 26.95 ✓
 Rate per t.k.m

- (C) Loading and unloading brick bats/shama khaa/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 6 min

- (i) Labour

Man = 0.03 @ 30500/day = Rs 9.15
 Labour for loading/unloading 0.72 @ 287/day = Rs 206.64

- (ii) Machinery

Tractor 3.6 t Capacity 0.1 @ 549.10/hour = Rs 54.91
 Front end loader 1 cum bucket 0.083 @ 14000/h = Rs 116.45
 Rs 23.23

- (iii) Over head (OH) @ 6%

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

(D) Supply for brick bats (with OH)
 Basic Rate of Brick bats Rs 1063 = 10 } Rs 1126.78 ✓
 Rs 63.78 }
 Rs 6% OH

उद्योग नाम - टील से नारायणपुर

422/1000
11/03/2020
11/03/2020 - 12/03/2020



Latitude: 26.160433
Longitude: 86.23537
Elevation: 33.36 m
Accuracy: 3.8 m
Date: 10-03-2020 12:14
By: SE NARAYANPUR



16
115
ANPUR

Charu
12/12/2019
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Tardak

h
EE
Rwp, Benipur

720 4.000 - TO SE NARAYANPUR



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771 (5) 1001 - 1001 31 - 1001 1001



Latitude 26.155889
Longitude 86.235115
Elevation 48.95 m
Accuracy 4.7 m
Time: 10-03-2020 12:19
Note: T01 SE NARAYANPUR



Latitude 26.159057
Longitude 86.235106
Elevation 47.85 m
Accuracy 11.3 m
Time: 10-03-2020 12:16
Note: T01 SE NARAYANPUR

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