

7/10/2020



## ग्रामीण कार्य विभाग

पथ का नाम

:- T04 Shyam pur TO Musahani taln

कार्य प्रमण्डल

:- बेनीपुर।

कार्य अंचल

:- दरभंगा।

प्रखण्ड का नाम

:- अलीनगर।

प्राक्कलित राशि

2,69,682.00  
:- 2,51,000.00

## प्रतिवेदन

पथ का नाम :- T04 Shyam pur TO Musahani 400a  
पथ की लं० :- 1.140KM  
प्राक्कलित राशि :- ~~9,31,067/-~~  
2,69,682 200

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।



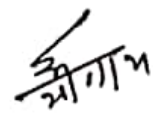
15/12/2020

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 estimate

Name of Road - To Shyam pur To Mushori-tda.

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

$$\begin{aligned}
 &5.00\text{m} \times 3.00\text{m} \times \frac{(0.90+1.15)/2}{1} = 15.38\text{m}^3 \\
 &10.00\text{m} \times 3.10\text{m} \times \frac{(0.65+1.20)/2}{1} = 28.68\text{m}^3 \\
 &13.00\text{m} \times 2.60\text{m} \times \frac{(0.75+0.90)/2}{1} = 27.83\text{m}^3 \\
 &8.00\text{m} \times 2.60\text{m} \times \frac{(0.90+0.90)/2}{1} = 18.72\text{m}^3 \\
 &5.00\text{m} \times 1.50\text{m} \times \frac{(0.90+1.20)/2}{1} = 7.88\text{m}^3 \\
 &7.00\text{m} \times 3.00\text{m} \times \frac{(1.00+1.20)/2}{1} = 23.10\text{m}^3 \\
 &\text{Total qty } 149.34\text{m}^3 \\
 &121.65\text{m}^3
 \end{aligned}$$

$$121.65\text{m}^3 @ 1867.76/\text{m}^3 =$$

$$\text{Add - } 12\% \text{ B.S.T.} =$$

$$\text{Add - } 1\% \text{ L.C.} =$$

$$\text{Add - S.f } 10\% =$$

$$121.65\text{m}^3 \times 1063.00 \times 0.10 = 12931.00$$

$$\text{Total} = 331,067.00$$

15/12/2020  
M.A.

15/12/2020  
D.R.

15/12/2020  
P.T.O.

B.F —

2,69,682.00

कार्यपालक आगितला, ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, जमनगर के पत्रांक 798 अनु०  
दि० 05.04.2021 के द्वारा समर्पित जॉच  
प्रतिवेदन के आधार पर —

Post facto T/A for ₹ 2,69,682.00

(Rupees two lacs, sixty nine thousand, six  
hundred & eighty two) only —

9/14.04.21

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

FOR FDR July 2020.

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

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

$$\begin{aligned} \text{① Surface lead} &= 7 \text{ km} \\ \text{Katchha lead} &= 1 \text{ km} \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} 8 \text{ km} \\ \text{Factor } [3.6/2.25] &= 1.60 \\ \text{i.e. Carriage Cost (with OH)} &= [(1.60 \times 7 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95) + 182.39] \\ &= \text{Rs. } 418.71 \end{aligned}$$

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

$$\begin{aligned} \text{② Surface lead} &= 6 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage Cost (with OH)} &= [(1.60 \times 6 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95) + 182.39] \\ &= \text{Rs. } 391.11 \end{aligned}$$

$$\begin{aligned} \text{Total Cost of Bricks bats P/B} &= \text{Rs. } 1126.78 \\ &+ \text{Rs. } 391.11 \\ &+ \text{Rs. } 322.27 \\ \text{Total Rs. } 1840.16 & \text{ P/B [without GST+LC+SF]} \end{aligned}$$

$$\begin{aligned} \text{③ Surface lead} &= 5 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage Cost (with OH)} &= [(1.60 \times 5 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95) + 182.39] \\ &= \text{Rs. } 363.51 \end{aligned}$$

$$\begin{aligned} \text{Total Cost of Bricks bats P/B} &= 1126.78 \\ &+ 363.51 \\ &+ 322.27 \\ \text{Total Rs. } 1812.56 & \text{ P/B [without GST+LC+SF]} \end{aligned}$$

$$\begin{aligned} \text{④ Surface lead} &= 4 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage Cost (with OH)} &= [(1.60 \times 4 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95) + 182.39] \\ &= \text{Rs. } 335.91 \end{aligned}$$

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

$$\begin{aligned} \text{⑤ Surface lead} &= 3 \text{ km} / \text{Katchha} = 1 \text{ km} / \text{Factor} = 1.60 \\ \text{Carriage Cost (with OH)} &= [(1.60 \times 3 \text{ km} \times 17.25) + (1.60 \times 1 \text{ km} \times 26.95) + 182.39] \\ &= \text{Rs. } 308.31 \end{aligned}$$

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

नोट:- यदि पट्टा घर के पास है तो/चिमनी की दूरी का प्रभाव प्रत्यक्ष में दर्शाया जाएगा। साथ ही दूरी के आधार पर ही दुआई की आवश्यकता किम जायेगा।

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

Unit = per M<sup>3</sup>  
 Taking output = 2.832 M<sup>3</sup>  
 Unskilled Muzdar = 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.k.m  
 Taking output 3.60 tonnes load and lead 10 k.m = 36.0 t.k.m

**i) Surface Road**

Speed with load = 15 k.m/hour  
 Speed while returning empty = 25 k.m/hour

**ii) Machinery**

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

**iii) Over head (OH) charge 6%**

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

**ii) Katchha Road**

Speed with load = 12 k.m/hour  
 Speed for empty return trip = 20 k.m/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

**iv) OH 6%**

Cost for 36 t.k.m = Rs 54.92  
 Rs 970.27  
 Rate per t.k.m = 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, 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 = 9.15

Unskilled Labour for loading/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 1.00 capacity 0.083 @ 1402.00/h = Rs 116.45

Rs 23.33

**iii) Over head (OH) 6%**

Cost per 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<br>Quintal capacity = 2 Nos. | e 1872.00 | Rs 3744.00     |
| (b) Hire charge of diesel pump<br>(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<br>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's

|                                 |              |           |
|---------------------------------|--------------|-----------|
| (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<br>nails or G.I. wires | e Rs 60.03 | Rs 30.02   |
| Total =                                           |            | Rs 144.895 |

Add 6% CH = Rs 8.690

Total = ~~153.585~~

For 30.5M → 153.585

P/Metre → Rs 5.04 ✓

1  
A.

|                                                                    |         |        |       |      |        |
|--------------------------------------------------------------------|---------|--------|-------|------|--------|
| Supplying of Sand Bag (with OH)                                    |         |        |       |      |        |
| Basic Rate of Sand Bag (including cbrt+sand)                       |         |        |       |      |        |
| Add overhead Charges                                               |         |        |       |      |        |
| Total                                                              | Per Bag | 6%     | 8.86  | 8.86 | 9.39   |
| 1 No Cement Bag filled with 40 kg./1.2 Cuft Sand                   |         |        |       |      |        |
| Conversion factor : $1\text{m}^3 = 35.3146667\text{ft}^3$          |         |        |       |      |        |
| 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                                                            | KM      | 2      |       |      |        |
| Surface Lead                                                       | KM      | 1      |       |      |        |
| Katcha Lead                                                        | Cum     | 1.6    |       |      |        |
| Factor (3.6/2.25)                                                  |         |        |       |      |        |
| Carriage (with OH)                                                 |         |        |       |      | 289.71 |
| $1.6 \times 2 \times 17.25 + (1.6 \times 1 \times 26.95) + 182.39$ |         |        |       |      |        |
| Cost of Carriage of Sand in Filling of Sand Bag                    |         |        |       |      |        |
|                                                                    |         | 280.71 | 0.034 | 9.52 |        |
| 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+Sf)                             |         |        |       |      | 25.11  |

B.

C.

Tod Shyampur to Musahani tala.



total 25 CH

very or

or

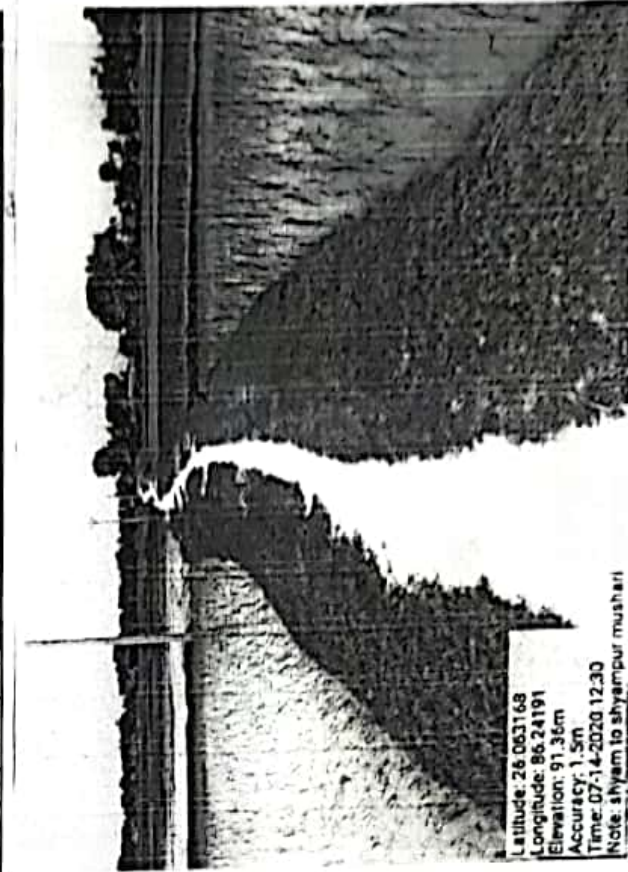
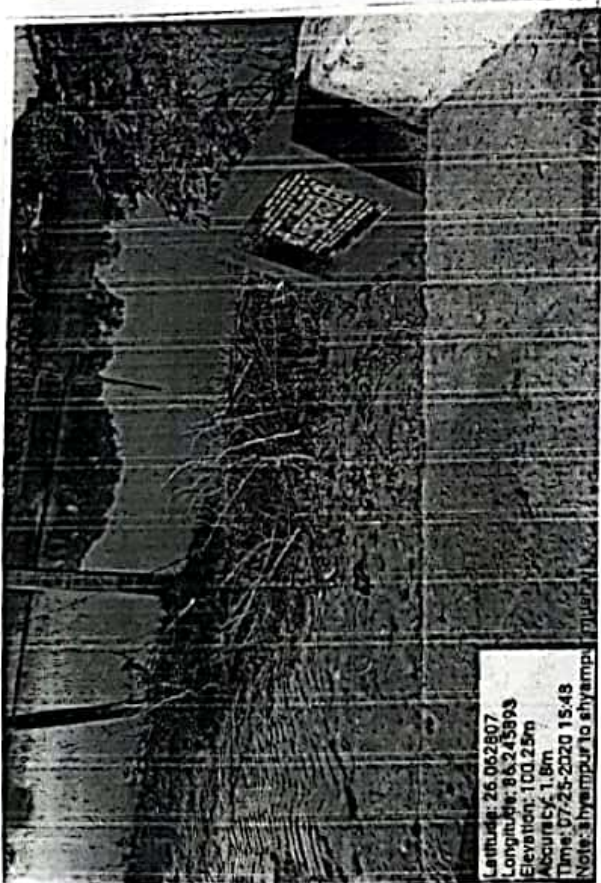
or



or

or

BM of shed

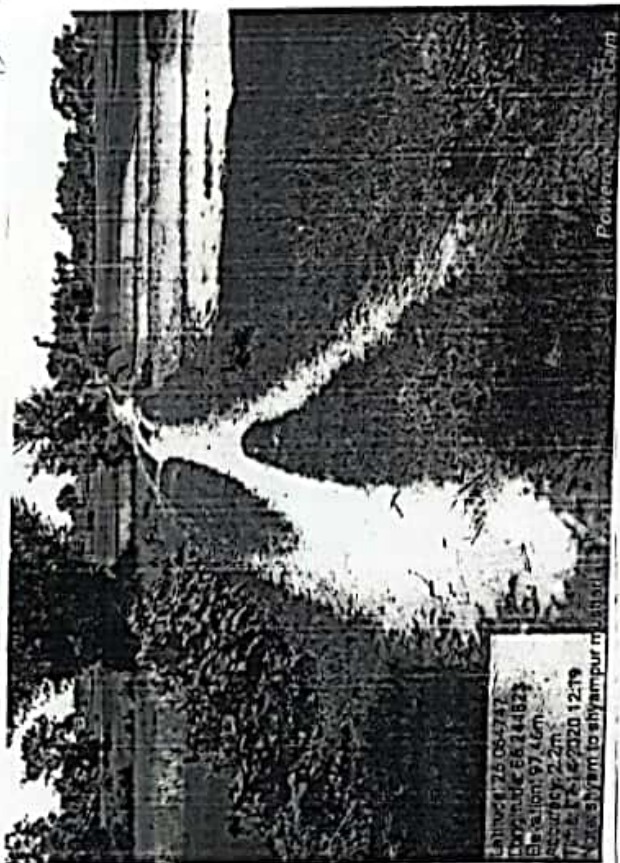


shyampur

A-E

A-E

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Latitude: 26.065747  
Longitude: 86.244823  
Elevation: 97.16m  
Accuracy: 2.2m  
Time: 07-14-2020 12:19  
Note: shyam to shyampur musham

Powered by Mapbox



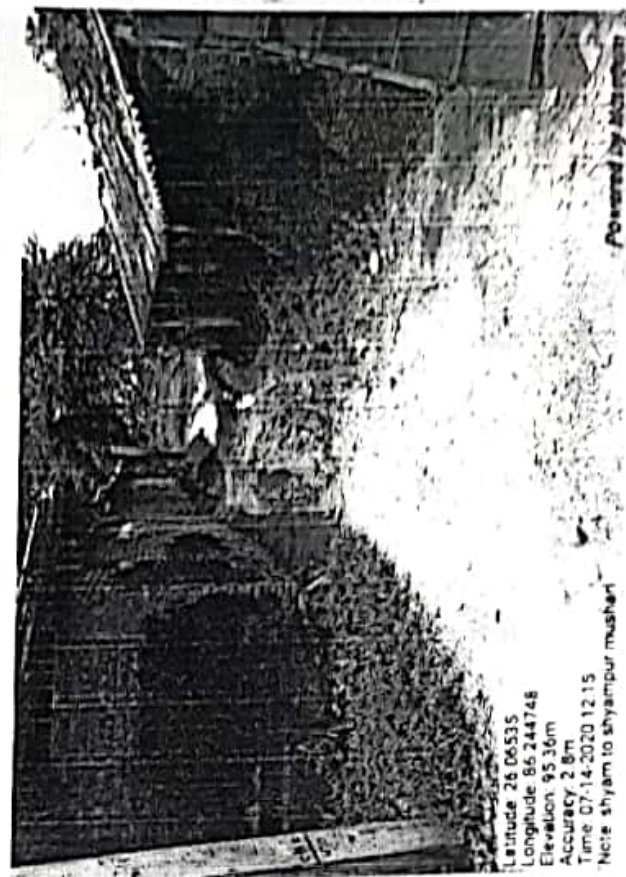
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Accuracy: 1.7m  
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Note: shyam to shyampur musham

Powered by Mapbox



Latitude: 26.065038  
Longitude: 86.24479  
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Time: 07-14-2020 12:15  
Note: shyam to shyampur musham

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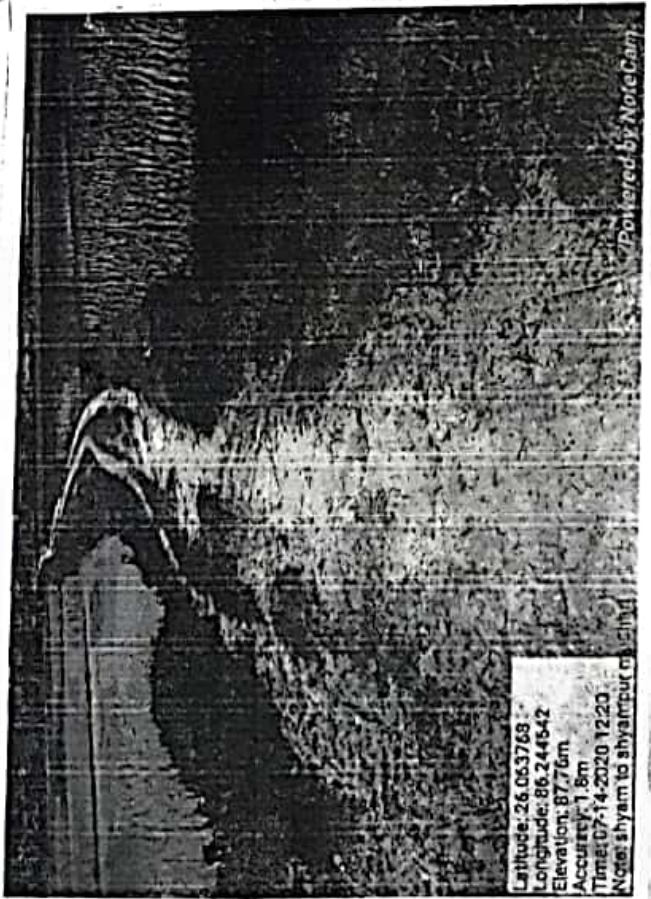
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Accuracy: 2.8m  
Time: 07-14-2020 12:15  
Note: shyam to shyampur musham

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4/25/20  
A.E.



4/25/20  
A.E.



4/25/20  
A.E.