

17/01/2020

17



ग्रामीण कार्य विभाग

पथ का नाम :- Badua Bana (Dasavat) to Sahasrauli near to
कार्य प्रमण्डल :- बेनीपुर।
कार्य अंचल :- दरभंगा।
प्रखण्ड का नाम :- अलीनगर।
प्राक्कलित राशि :- 9,43,943.00

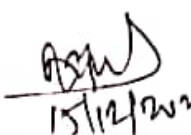
प्रतिवेदन

पथ का नाम :- Belua Bara (Deasat +) TO Sahasauli Uttar talu
पथ की लं० :- 1645M
प्राक्कलित राशि :- 11,65,943.00
9,43,943.00

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।


कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा अलीनगर,


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


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल बेनीपुर,

flow Estimate

Name of Road - Balua Barr to Shauli v/tar fola.

Item No-11 Providing & laying brick pitching with brick bats including loading, un-loading and light ramming all complete job,

$$31.00 \times \frac{(3.50 + 6.00)/2 \times (0.90 + 1.20 + 1.00)/3}{4.80 + 4.50} \times 1.00 = 152.16 \text{ s} \\ + 44.15 \text{ m}$$

$$7.00 \text{ m} \times 6.00 \text{ m} \times \frac{(0.60 + 0.80)/2}{4.80 \text{ m}} = 29.40 \text{ s} \\ 33.60 \text{ m}$$

$$71.00 \times \frac{(3.00 + 5.00 + 4.90)/3 \times (0.80 + 0.90)/2}{4.80 + 5.00} \times 1.00 = 244.24 \text{ s} \\ 347.90 \text{ m}$$

$$\text{Total} = 525.65 \text{ m}^3 \\ 425.80 \text{ m}$$

$$425.80 \text{ m} @ 1867.76/\text{m}^3 = 795,292.0$$

$$\text{Add} - 12\% \text{ U.S.T} - 117,815.0$$

$$\text{Add} - 1\% \text{ L.C} - 7,952.92$$

$$\text{Add} - S.F - 425.80 \text{ s} \\ 525.65 \text{ m} \times 1063.0 \times 0.10 = 45,263.0$$

$$\text{C.O.} - \text{Total} = 11,65,297.0 \\ 9,43,944.0$$

P.T.O.

B.f- 11.65-297.00 ^{9,43,743.00}

18/12/2021
J.E

18/12/2021

R.E

18/12/2021
R.E

समवेत नमिस्ता, ग्रामीन वर्क विभाग, वर्क प्रमंडल, नमस्ता
के पत्रिक 798 अन्तर्दि 05.04.2021 द्वारा समिति
जांच प्रतिवेदन के आधार पर

Post facto T/A for ₹ 9,43,743.00
(Rupees nine lacs forty three thousand nine
hundred & forty three) only

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/S

By TRACTOR. [without C.P.] for Departmental work

① Surface lead = 7 K.M } 8 K.M
Katchha lead = 1 K.M }
Factor $[5.6/225] = 1.60$
ie Carriage Cost (with OH) = $[(1.60 \times 7 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39]$
= Rs. 418.71
say Total Cost of Bricks (Brick bats) = 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]

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 P/B = Rs. 1126.78
+ Rs. 391.11
+ Rs. 322.27
Total Rs. 1840.16 P/B [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 P/B = 1126.78
+ 363.51
+ 322.27
Total Rs. 1812.56 P/B [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 P/B = 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) = $[(1.60 \times 3 \text{ K.M} \times 17.25) + 49.12 + 182.39]$
= Rs. 308.31
Total Cost of Bricks bats P/B = 1126.78 + 308.31 + 322.27 = Rs. 1757.36 [without GST + LC + SF]

नोट:- निर्देशानुसार कार्य स्वयं से प्रेषित/विमर्श की दूरी का अंशाल प्राप्ति में दर्शाया जाएगा। साथ ही दूरी के आधार पर की दूरी की आकलन किया जाएगा।

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

$$\begin{aligned} \text{Unit} &= \text{Per } M^3 \\ \text{Taking output} &= 2.832 M^3 \\ \text{Unskilled Man} &= 3 \text{ Nos @ } 287.00 = \text{Rs } 861.00 \\ 6\% \text{ OH} &= \text{Rs } 51.66 \\ \text{Rate for } 2.832 M^3 &= \text{Rs } 912.66 \\ \text{Rate per } M^3 &= \text{Rs } 322.27 \checkmark \end{aligned}$$

(B) Haulage excluding Loading and unloading, spreading
Haulage of Materials by Tractor

$$\begin{aligned} \text{Unit} &= t \cdot km \\ \text{Taking output} &= 3.60 \text{ tonne load and load } 10 \text{ km} = 36.0 t \cdot km \end{aligned}$$

(i) Surface Road

$$\begin{aligned} \text{Speed with load} &= 15 \text{ km/hour} \\ \text{Speed while returning empty} &= 25 \text{ km/hour} \end{aligned}$$

(a) Machinery

$$\begin{aligned} \text{Tractor } 3.6 \text{ tonne Capacity} &= 0.667 \text{ @ } 549.10/\text{hour} = \text{Rs } 366.25 \\ \text{(Time taken for one trip)} & \\ \text{Haulage with load} &= 0.400 \text{ @ } 549.10/\text{hour} = \text{Rs } 219.64 \\ \text{Time taken for empty return} &= \text{Rs } 35.15 \end{aligned}$$

(b) Over head (OH) charge 6%

$$\begin{aligned} \text{Cost for } 36 t \cdot km &= \text{Rs } 621.04 \\ \text{Rate per } t \cdot km &= \text{Rs } 17.25 \checkmark \end{aligned}$$

(ii) Katchla Road

$$\begin{aligned} \text{Speed with load} &= 12 \text{ km/hour} \\ \text{Speed for empty return trip} &= 20 \text{ km/hour} \end{aligned}$$

(a) Machinery

$$\begin{aligned} \text{Tractor } 3.6 \text{ tonne Capacity} &= 1.00 \text{ @ } 549.10/\text{hour} = \text{Rs } 549.10 \\ \text{Time taken for onward haulage with load} &= 0.667 \text{ @ } 549.10/\text{hour} = \text{Rs } 366.25 \\ \text{Time taken for empty return trip} &= \text{Rs } 54.92 \end{aligned}$$

(b) OH 6%

$$\begin{aligned} \text{Cost for } 36 t \cdot km &= \text{Rs } 970.27 \\ \text{Rate per } t \cdot km &= \text{Rs } 26.95 \checkmark \end{aligned}$$

(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.

$$\text{Unit} = \text{Cum} / \text{Taking output} = 2.25 M^3 / \text{Time required for } 6 \text{ Minuts}$$

$$\begin{aligned} \text{Unskilled Labour for loading/unloading} &= 0.72 \text{ @ } 287/\text{trip} = \text{Rs } 206.64 \\ \text{Rate} &= 0.03 \text{ @ } 305 = \text{Rs } 9.15 \end{aligned}$$

(i) Machinery

$$\begin{aligned} \text{Tractor } 3.6 \text{ t Capacity} &= 0.1 \text{ @ } 549.10/\text{hour} = \text{Rs } 54.91 \\ \text{Front end loader } 1 \text{ cu. yd capacity} &= 0.083 \text{ @ } 1402.00/\text{h} = \text{Rs } 116.45 \\ \text{Rate} &= \text{Rs } 231.33 \end{aligned}$$

(ii) Over head (OH) 6%

$$\begin{aligned} \text{Cost for } 2.25 M^3 &= \text{Rs } 410.38 \\ \text{Rate per } M^3 &= \text{Rs } 182.39 \checkmark \end{aligned}$$

Bamboo piling items.

- ① Labour for cutting ^{62mm to} 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 Mazdoor = 5 Nos.	@ Rs. 287.00	Rs. 1435.00
(b) Semi Skilled Mazdoor = 1 No	@ Rs. 299.00	Rs. 299.00
(c) Carpenter G.I.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 ginned capacity = 2 Nos.	@ Rs. 1872.00	Rs. 3744.00
(b) Hire charge of diesel pump (pumping set) = 1 No	@ Rs. 300.00	Rs. 300.00
(c) Diesel for pumping set = 8 Lit	@ Rs. 77.00	Rs. 616.00
(d) Hire charge of jet pipe and pipe assembly = 1 No	@ Rs. 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 G.I.II = 0.125 Nos	@ Rs. 345.00	Rs. 43.125
(b) Unskilled Mazdoor = 0.25 Nos	@ Rs. 287.00	Rs. 71.750

(ii) Materials:-

Cost of 150mm long 0.50 kg	@ 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 chit+sand)					
Add overhead Charges	Per Bag	8%			8.26
Total		6%			9.52
1 No Cement Bag filled with 40 kg./1.2 Cuft Sand					9.39
Conversion factor :1m3=35.3146667ft3					
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	1.5			
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 Sad Bag					
Cost of Labour for Filling Sand Bag, stitching and Placing (with OH)		280.71	0.034		9.52
Total (A+B+C)=9.39+9.52+6.20					25.11
Total Cost per Bag (without Gst+Lc+Sf)					25.11

B.

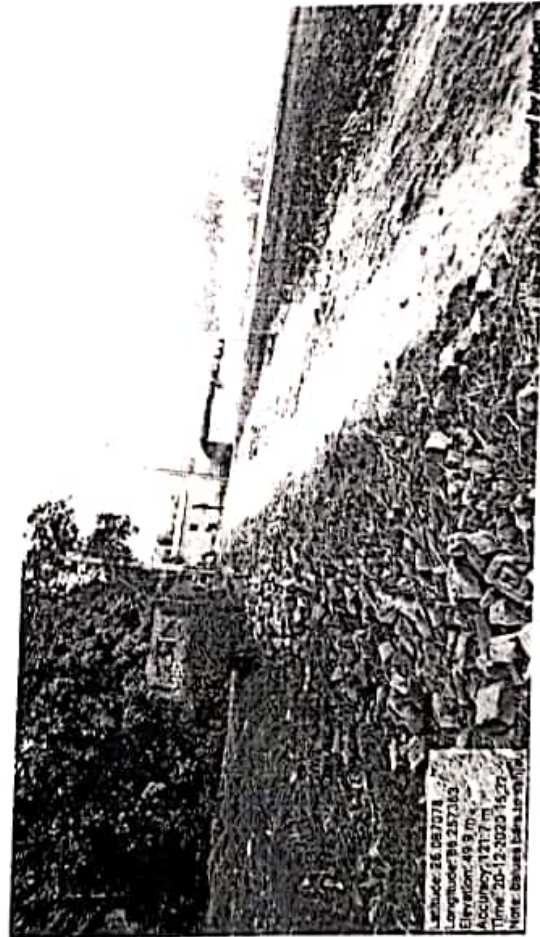
C.

BALVA BARR (DASAVT) TO



Latitude: 28.087028
Longitude: 88.2377186
Elevation: 53.68 m
Accuracy: 4.9 m
Time: 20-12-2020 15:31
Note: Balva Barr to Sahjoul Uter Road

hina 218 815



Latitude: 28.087028
Longitude: 88.2377186
Elevation: 53.68 m
Accuracy: 4.9 m
Time: 20-12-2020 15:31
Note: Balva Barr to Sahjoul Uter Road

1543 J.F

1543 A.F

SAHJOULI VTTAR TOLA.



Latitude: 28.087167
Longitude: 88.238871
Elevation: 2700.0 m
Accuracy: 200.0 m
Time: 20-12-2020 15:32
Note: Balva Barr to Sahjoul Uter Road



Latitude: 28.087167
Longitude: 88.238871
Elevation: 2700.0 m
Accuracy: 200.0 m
Time: 20-12-2020 15:32
Note: Balva Barr to Sahjoul Uter Road

1543 E.E

31 to 40 m



016



017



3.3

A-E

3.4

I-E

Ref. name- Badua Bara TO Sahadandi Uttar parlor

Badua Bara TO Sahadandi Uttar parlor



for 1000

for 1000



for 1000



for 1000

3-E



for 1000

3-E

3-E



3-E



3-E

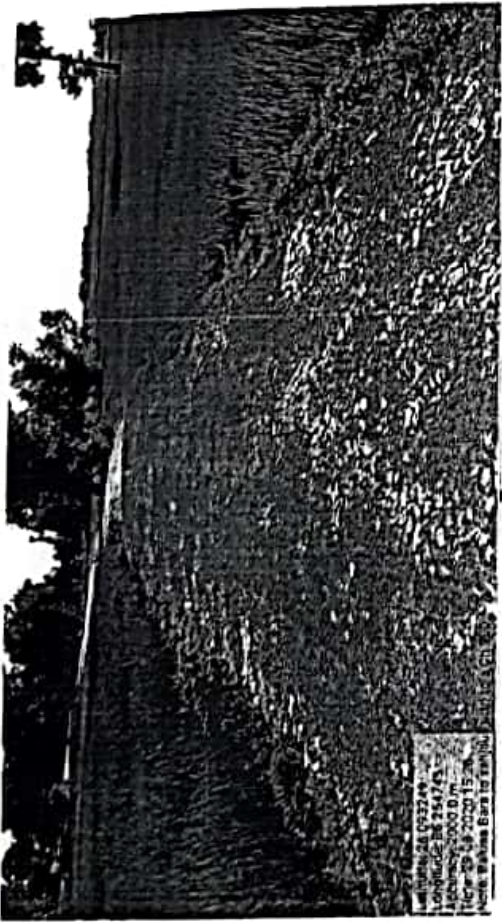


3-E

505h

AP

24/4



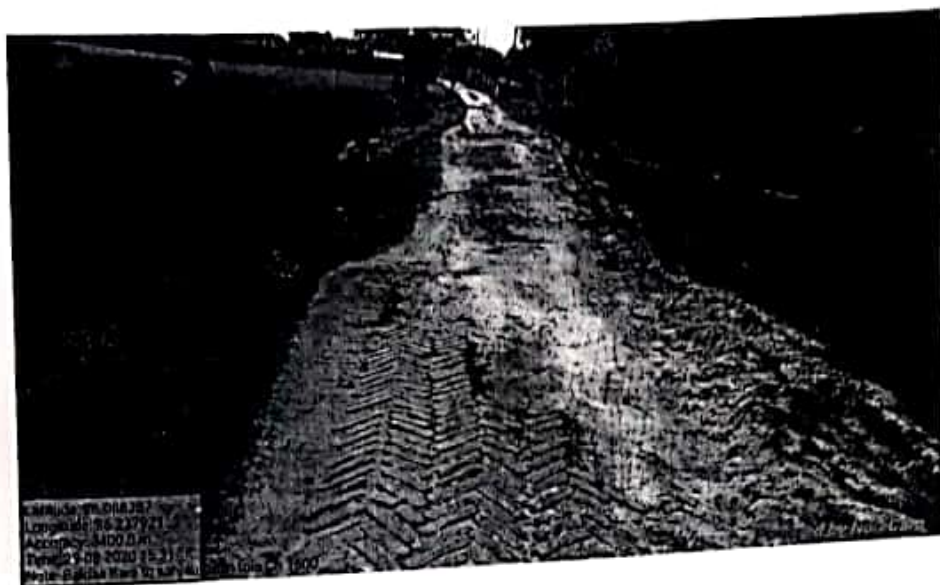
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AP

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5.5



कंप के पड़े

A. E



3.3