

702 2020



ग्रामीण कार्य विभाग

पथ का नाम	: - पाद्रीगौला उरखिंगपुर से नानानगर
कार्य प्रमण्डल	: - बेनीपुर।
कार्य अंचल	: - दम्भंगा।
प्रखण्ड का नाम	: - अलीनगर।
प्राक्कलित राशि	: - $\frac{2,92,782.00}{5,31,883.00}$

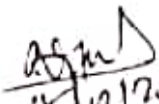
प्रतिवेदन

पथ का नाम :- पाखी-2 के तटस्थिबपुर से जाला नगर स्थित रोड
पथ की लं० :- 3.650 कि०मी
प्राक्कलित राशि :- 5,57,853.49
2,92,782.00

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 पुनर्स्थापन 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।

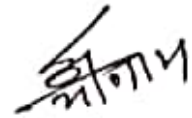
प्राक्कलन को कार्य अंचल, दरभंगा द्वारा स्वीकृत अद्यतन दर के आधार पर तैयार कर अग्रेतर कार्यवाई हेतु समर्पित की जाती है।


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 - Passi to (Harsingpur to
Naurangpur yadav to Khunaghat

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

CH-				
100m.	12.50m	$\times \frac{(2.50+3.00)}{2} \times \frac{(0.20+0.45+0.25)}{3}$	$\times 0.90m$	$= 32.4m^3$
1000m.	3.00m	$\times 2.00m \times \frac{(0.30+0.60+0.45)}{3}$	$\times 1.20m$	$= 7.2m^3$
1010m.	1.00m	$\times 1.00m \times \frac{(0.30+0.45)}{2}$	$\times 0.90m$	$= 0.38m^3$
1100m.	2.00m	$\times 1.00m \times \frac{(0.60+1.00)}{2}$	$\times 0.90m$	$= 1.60m^3$
1300m.	10.00m	$\times 3.00m \times \frac{(0.70+1.10)}{2}$	$\times 1.50m$	$= 9.45m^3$
1500m.	1.00m	$\times 2.00m \times \frac{(0.65+1.15)}{2}$	$\times 1.50m$	$= 1.80m^3$
1600m.	13.00m	$\times 3.40m \times \frac{(0.70+1.30)}{2}$	$\times 1.50m$	$= 49.70m^3$
1750m.	4.00m	$\times 2.50m \times \frac{(0.20+0.90)}{2}$	$\times 1.20m$	$= 5.50m^3$
2000m.	5.00m	$\times 2.00m \times \frac{(0.35+0.60)}{2}$	$\times 1.20m$	$= 4.75m^3$
2000m.	3.00m	$\times 1.50m \times \frac{(0.20+0.30)}{2}$	$\times 0.90m$	$= 1.13m^3$
2010m.	5.00m	$\times 1.40m \times \frac{(0.30+0.45)}{2}$	$\times 0.90m$	$= 2.63m^3$
2050m.	1.50m	$\times 1.00m \times \frac{(0.20+0.45)}{2}$	$\times 0.90m$	$= 0.49m^3$
2100m.	6.00m	$\times 2.30m \times \frac{(0.30+0.35)}{2}$	$\times 0.90m$	$= 4.49m^3$
2120m.	4.00m	$\times 1.90m \times \frac{(0.20+0.40)}{2}$	$\times 0.90m$	$= 2.28m^3$
2150m.	5.00m	$\times 3.00m \times \frac{(0.45+0.85)}{2}$	$\times 0.90m$	$= 9.75m^3$
2170m.	5.00m	$\times 1.70m \times \frac{(0.55+0.75)}{2}$	$\times 0.90m$	$= 5.53m^3$
2190m.	2.00m	$\times 1.00m \times \frac{(0.50+0.75)}{2}$	$\times 1.20m$	$= 1.25m^3$
2200m.	5.00m	$\times 2.50m \times \frac{(0.60+0.35)}{2}$	$\times 1.20m$	$= 5.94m^3$
2220m.	7.00m	$\times 2.50m \times \frac{(0.45+0.30)}{2}$	$\times 1.20m$	$= 6.52m^3$
2250m.	5.00m	$\times 2.70m \times \frac{(0.90+1.15)}{2}$	$\times 1.50m$	$= 16.76m^3$
2400m.	1.50m	$\times 2.00m \times \frac{(0.20+0.45)}{2}$	$\times 0.90m$	$= 0.98m^3$

C.O - Total = 242.61m³
NW - 132.07m³

B.f. Qty - $132.07 m^3$
~~242.61 m~~

$132.07 m^3 @ 1867.76 / m^3$ —

Add - 12% G.S.T —

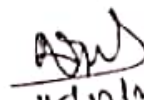
Add - 1% L.C. —

246,675.00
~~4,53,137.00~~
 29,601.00
~~54,336.00~~
 2467.00
~~4,531.00~~

Add. S.f - $\frac{132.07}{242.61} \times 1063.00 \times 0.10$ —

14,039.00
~~25,789.00~~

Total = ~~5,37,833.00~~
 2,92,782.00


 15/12/2021
 O.E.


 15/12/2021
 A.E.

B.E.

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य
 प्रमंडल, जमनगर के पत्रांक 798 अनु दि० 05-04-2021
 के द्वारा समर्पित ऑफ़ प्रतिवेदन के आधार पर —

Post facto T/A for ₹ 2,92,782.00

(Rupees Two lacs, ninety two thousand,
 seven hundred & eighty two) 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 ramming etc. all complete job as per specification and direction of E/S

By TRACTOR: (without e.p) for Departmental work

$$\textcircled{1} \quad \left. \begin{array}{l} \text{Surface lead} = 7 \text{ K.M} \\ \text{Katchha lead} = 1 \text{ K.M} \end{array} \right\} 8 \text{ K.M} \\ \text{Factor } [5.6/2.25] = 1.60$$

$$\text{i.e. Carriage Cost (with OH)} = [(1.60 \times 7 \text{ K.M} \times 17.25) + (1.60 \times 1 \text{ K.M} \times 26.95) + 182.39] \\ = \text{Rs. } 418.71$$

$$\text{say Total Cost P.M.B.} = \text{Rs. } 1126.78 \text{ (Bricks bats with OH)} \\ + \text{Rs. } 418.71 \text{ [Carriage Cost with OH]} \\ + \text{Rs. } 322.27 \text{ [Labour Cost with OH]}$$

$$\text{Total Rs. } 1867.76 \text{ [without GST + LC + SF]} \\ \text{P.M.B.}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

नोट:- यदि पट्टाधार की जगह से गड्ढा/चिमनी की डूबी या अगला आकृष्य में डूबीया जायेगा। साथ ही डूबी के आकार पर भी दुमई की आकृष्य किया जायेगा।

(A) Labour for laying brick bats / Shama Khas including light rammings etc.

Unit = Per M³

Taking output = 2.832 M³

Unskilled Manpower = 3 Nos @ 287.00 = Rs 861.00

6% OH =

Rate for 2.832 M³ =

Rate per M³

Rs 51.66

Rs 912.66

Rs 322.27 ✓

(B) Haulage excluding loading and unloading, stacking.

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 = 35 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 = 0.400 @ 549.10/hour = Rs 219.64

Time taken for empty return = 0.400 @ 549.10/hour = Rs 35.15

Over head (OH) charge 6% = Rs 621.04

Cost for 36 t.K.M

Rate per 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 trip 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

OH 6% = Rs 54.92

Rs 970.27

Cost for 36 t.K.M =

Rate per t.K.M = Rs 26.95 ✓

(C) Loading and unloading brick bats / Shama Khas / 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 M³ / Time required 7.20 = 6 Minute

(i) Labour

Rate 0.03 @ 305.00/trip = Rs 9.15

Unskilled Labour for loading, unloading 0.72 @ 287.00/trip = Rs 206.64

(ii) Machinery

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

front end loader capacity 0.083 @ 1400.00/h = Rs 116.45

OH 6% = Rs 23.23

Cost for 2.25 M³ = Rs 410.38

Rate per M³ = Rs 182.99 ✓

Bamboo piling items.

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

Taking output = 200M
Unit = Per/metre.

(i) Labour

(a) Unskilled Haggdoor = 5 Nos.	e Rs. 287.00	Rs 1435.00
(b) Semi Skilled Haggdoor = 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 Jol 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% OH 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 Haggdoor = 0.25 Nos	e Rs 287.00	Rs 71.750

(ii) Material:-

Cost of 150mm long 0.50 kg - nails or G.I. Wires	e Rs 60.03	Rs 30.02
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Total = Rs 144.895

Add 6% OH = Rs 8.690

Total = ~~153.585~~

For 30.5 M → 153.585

P/Metre → Rs 5.04 ✓

Supplying of Sand Bag (with OH)					
Basic Rate of Sand Bag (including cbt+sand)					
Add overhead Charges	Per Bag	6%	8.16	8.26	
Total				0.33	
				9.39	
1 No Cement Bag filled with 40 kg./1.2 Cuft Sand					
Conversion factor : $1m^3 = 35.3146667ft^3$					
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

1 A.

B.

C.

pasitla Harisinghpur to Nawangar gadav tala khomug ghat



Latitude: 26.049128
Longitude: 80.210232
Elevation: 96.15m
Accuracy: 1.7m
Time: 09-13-2020 11:02
Note: Harisinghpur pass to the khomug ghat (ch-0)

← NW →



Latitude: 26.05352
Longitude: 80.229482
Elevation: 84.77m
Accuracy: 2.7m
Time: 09-13-2020 11:09
Note: Harisinghpur pass to the khomug ghat (ch-0)

← NE →



Latitude: 26.053712
Longitude: 80.210053
Elevation: 89.07m
Accuracy: 1.7m
Time: 09-13-2020 11:11
Note: Harisinghpur pass to the khomug ghat (ch-0)

← NW →



Latitude: 26.054491
Longitude: 80.211272
Elevation: 88.66m
Accuracy: 2.1m
Time: 09-13-2020 11:13
Note: Harisinghpur pass to the khomug ghat (ch-0)

← NW →

A-E

J-F

← NW →

E-E

0230-57 14/15/20

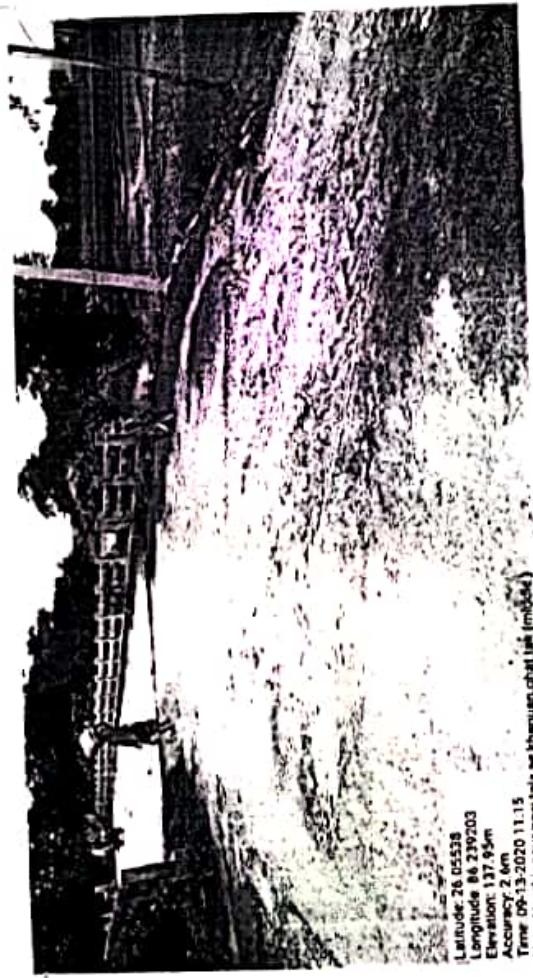


Latitude: 26.054493
Longitude: 86.233272
Elevation: 89.44m
Accuracy: 2.1m
Time: 09-13-2020 11:13
Note: Harshangpur pass tola se kharuan ghat tak (middle)



Latitude: 26.055382
Longitude: 86.241132
Elevation: 107.87m
Accuracy: 2.1m
Time: 09-13-2020 11:17
Note: Harshangpur pass tola se kharuan ghat tak (middle)

h
E.E



Latitude: 26.05538
Longitude: 86.239203
Elevation: 137.95m
Accuracy: 2.6m
Time: 09-13-2020 11:15
Note: Harshangpur pass tola se kharuan ghat tak (middle)



Latitude: 26.05538
Longitude: 86.242067
Elevation: 109.77m
Accuracy: 10.2m
Time: 09-13-2020 11:17
Note: Harshangpur pass tola se kharuan ghat tak (middle)

AS
T.F

h
A.E



Latitude 26.055857
Longitude 86.239995
Elevation: 104.28m
Accuracy: 8.7m
Time: 12-15-2020 11:54
Note: Haridwarpur pass to the Khuman ghat tak middle

काय के बाट



Latitude 26.055539
Longitude 86.238947
Elevation: 89.85m
Accuracy: 2.7m
Time: 12-15-2020 12:10
Note: Haridwarpur pass to the Khuman ghat tak middle

काय के बाट



Latitude 26.056198
Longitude 86.241165
Elevation: 67.37m
Accuracy: 8.7m
Time: 12-15-2020 12:07
Note: Haridwarpur pass to the Khuman ghat tak middle

काय के बाट



Latitude 26.055903
Longitude 86.240147
Elevation: 103.25m
Accuracy: 2.6m
Time: 12-15-2020 11:57
Note: Haridwarpur pass to the Khuman ghat tak middle

काय के बाट

काय के बाट

T.E

काय के बाट

A.E

काय के बाट

E.E



देख
T.F

A.F

C.F



Latitude: 26.055338
Longitude: 86.239068
Elevation: 77.15m
Accuracy: 3.2m
Time: 12-15-2020 11:50
Note: Harshangpur past tola se abhiman ghat tak middle



Latitude: 26.055338
Longitude: 86.239068
Elevation: 92.05m
Accuracy: 3.0m
Time: 12-15-2020 12:10
Note: Harshangpur past tola se abhiman ghat tak middle

3-3
A-E



Latitude: 26.055376
Longitude: 86.230388
Elevation: 91.08m
Accuracy: 3.2m
Time: 12-15-2020 12:16
Note: Harshangpur past tola



Latitude: 26.055385
Longitude: 86.239057
Elevation: 202.05m
Accuracy: 8.0m
Time: 12-15-2020 12:09
Note: Harshangpur past tola se abhiman ghat tak middle

3-3
A-E



कार्य के बाद

Latitude: 26.05554
Longitude: 86.2300327
Elevation: 86.0m
Accuracy: 2.2m
Time: 12-15-2020 12:10
Note: Haridwar post mile se kharuan ghati tak middle



कार्य के बाद

Latitude: 26.05557
Longitude: 86.230005
Elevation: 86.0m
Accuracy: 2.2m
Time: 12-15-2020 12:10
Note: Haridwar post mile se kharuan ghati tak middle



कार्य के बाद

Latitude: 26.054543
Longitude: 86.233479
Elevation: 82.48m
Accuracy: 2.2m
Time: 12-15-2020 12:14
Note: Haridwar post mile se kharuan ghati tak

EE



कार्य के बाद

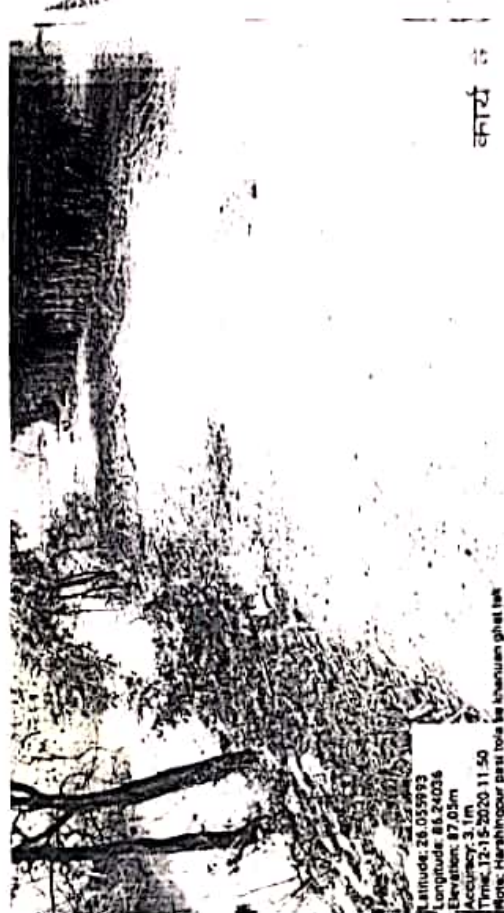
Latitude: 26.054543
Longitude: 86.233428
Elevation: 82.48m
Accuracy: 2.2m
Time: 12-16-2020 12:14
Note: Haridwar post mile se kharuan ghati tak

T-F

A-E



Handwritten signature and initials "E.E."



Handwritten signature and initials "A.E."

Handwritten signature and initials "J.E."



Handwritten signature and "E.E"



Handwritten signature and "A.E"

Handwritten signature and "T.F"



neg
J.E

A.E



neg
J.E

33
E.E



A.E



J.E