fDR 2020

Sl No 32

ग्रामीण कार्य विभाग

पथ का नाम :- अलीनगर से घमुआरा पथ

कार्य प्रमण्डल :- बेनीपुर।

कार्य अंचल :- दरभंगा।

प्रखण्ड का नाम :- अलीनगर।

प्राक्कलित राशि :- ~~14,89,913.00~~ 5,55,014=00

प्रतिवेदन

पथ का नाम :- अलीनगर से चमुआरी पथ
पथ की लं0 :- 0.200 किमी
प्राक्कलित राशि :- ~~14,29,913.00~~ 5,55,014=00

माह जुलाई अगस्त में हुई अतिवृष्टि के फलस्वरूप विभिन्न नदियों एवं नालों में आये बाढ 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 –मु0 अ0–04मु0 विविध कार्य 23–40/2016–2729अनु0 दिनांक–21.08.2020 के आलोक में क्षतिग्रस्त पथों के ईट टुकडे एवं चिमनी छाई से भरकर यातायात पुर्नस्थापन किया गया। किये गये कार्य के अनुसार प्राक्कलन तैयार कर घटनोतर स्वीकृति हेतु संमर्पित 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,

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

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग
कार्य प्रमण्डल बेनीपुर,

flood Estimate

Name of Road - Alinagar TO Dhamuara Path

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

TH-489m.	2.00M X 1.00M X 0.90M X 0.30m	=	0.60m³
493m.	4.00M X 1.50M X 0.80M X (0.30+0.60)/2	=	2.70m³
511m-	3.00M X 1.00M X 1.50M	=	4.50M³
541m.	5.00M X 1.30M X 1.80M	=	11.70M³
555m-	3.00M X 1.00M X 1.80M	=	5.40M³
568m	4.00 M X 1.50M X 0.80M X (0.60+0.40+0.40)/3	=	2.80m³
603m	6.00 M X 1.50M X 2.25M X (0.60+1.20+0.60)/3	=	7.20m³
611M	3.00M X 1.00 M X 0.80M X (1.00+1.20+0.90)/3	=	3.10m³
636M	3.00 M X 2.00M X 0.80M X (0.60+1.00+0.45)/3	=	4.10m³
640m.	2X6.00M X 1.30M X 0.80M X (1.00+1.50+1.20)/3	=	19.24m³
646m.	4.00 M X 4.00 M X 1.50M X (1.00+1.40+1.10)/3	=	18.66m³
654m.	8.00 M X 2.50M X 1.80M X (1.10+1.40+1.00)/3	=	23.33m³
657m.	3.00 M X 2.00 M X 1.80M X (1.00+1.50+1.20)/3	=	7.40m³
662m.	4.00 M X 1.50 M X 1.80M X (1.00+1.00+1.10)/3	=	6.20m³
681m.	4.00 M X 1.00 M X 1.80M X 0.30m	=	1.20m³
697m.	13.00 M X 1.50M X 1.50M X (0.45+0.60+0.30)/3	=	8.78m³
701m.	10.00 M X 1.30M X 1.80 M X (1.00+0.90+0.90)/3	=	12.13m³

C.O —

Total: 250.98M³ = 117.44 m³

B.f —— 117.49 m³

CH-715m. 4.00M X 1.50M X 1.50M = 9.00 m³

742m. 4.00M X 1.00M X 1.50M = 6.00 m³

744m. 2.00M X 0.80M X 0.30m 0.90M = 0.48 m³

764m. 4.00M X 1.30M X 0.30m 1.50M = 1.56 m³

769m 4.00M X 1.00M X 0.30m 1.50M = 1.20 m³

779m. 10.00M X 1.30M X (0.60+0.30)/2 1.50M = 5.85 m³

810m. 6.00M X 1.00M X (1.00+1.20)/2 1.80M = 6.60 m³

818m. 6.00M X 1.00M X 0.30m 1.50M = 1.80 m³

827m. 4.00M X 1.00M X 0.45m 0.90M = 1.80 m³

851m. 6.00M X 1.30M X 0.30m 1.80M = 2.34 m³

968m. 3.00M X 1.00M X 1.50M = 4.50 m³

970m. 5.00M X 1.50M X 1.80M = 13.50 m³

982m. 4.00M X 2.30M X (0.90+1.50+0.90)/3 2.30M = 10.12 m³

982m. 4.00M X 2.00M X (1.00+1.90+0.90)/3 2.30M = 8.80 m³

986m. 9.00M X 0.80M X 0.30m 0.90M = 2.16 m³

1006m. 9.00M X 0.80M X 0.45m 1.50M = 3.24 m³

1041m. 5.00M X 1.00M X (1.00+0.90+1.20)/3 1.80M = 5.67 m³

1080m. 3.00M X 1.00M X (0.30+0.40+0.30)/3 1.80M = 1.00 m³

1106m. 8.00M X 1.30M X 0.30 1.50M = 15.60 m³

1114m. 7.00M X 5.00M X 0.30 1.80M = 10.50 m³

1123m. 4.00M X 3.00 5.00M X 0.30 1.80M = 3.60 m³

C.O — Total: 542.00 m³ 184.16 m³

B.f ——— 184.16m³

H-1133m.	3.00M X 1.00M X (0.60+0.90+0.60)/3 = 1.50M	2.10m³
1142m.	4.00M X 1.20M X (0.45+0.60+0.90)/3 = 1.50M	3.12m³
1172m.	4.00M X 1.00M X (0.60+0.75+0.90)/3 = 1.50M	3.00m³
1277m.	4.00M X 1.00M X 1.80M =	7.20m³
1302m.	4.00m / 2.00M X 1.00M X (0.60+1.00+0.60)/3 = 1.50M	2.93m³
1316m.	4.00M X 1.00M X 0.90M =	3.60m³
1354m.	9.00M X 1.00M X 1.80M =	16.20m³
1358m.	6.00m / 5.00M X 2.50M X (0.75+1.20+0.90)/3 = 1.80M	14.25m³
1366m.	5.00m / 3.00M X (3.50+5.50)/2 / 5.50M X (0.60+1.00+1.20)/3 = 1.80M	21.00m³
1369m.	2.00M X 1.00M X 0.90M =	1.80m³
11	2.00M X 1.00M X 0.90M =	1.80m³
1395m.	5.00M X 1.00M X 0.90M =	4.50m³
1403m.	3.00M X 1.50M X 1.80M =	8.10m³
1587m.	4.00M X 0.80M X 1.50M =	4.80m³
1654m.	4.00M X 1.50M X 0.90ME	5.40m³
1659m.	4.00M X 0.80M X 0.90M =	2.88m³
1741m.	1.00M X 0.50M X 0.90M =	0.45m³
1741m.	1.00M X 0.50M X 0.90M =	0.45m³

C.O — Total = 672.08m³ / 250.36m³

B.f — 250.36m³ 672.08 M

250.36 m³ @ 1867.76/ m³ — 4,67,612 =00 +2,55,284.00

Add- 12 % Gr. S.T — 56,113 =00 +1,50,634.00

Add- 1 % L.C — 4676 =00 +2,553.00

Add. S.f — 250.36m³ 672.08 M × 1013.00 × 0.10 - 26,613 =00 77,442.00

Total: 14,89,313.00
5,55,014=00

15/12/2020
J.E

15/12/2020
A.E

15/12/2020
S.E

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 ₹ 5,55,014.00

(Rupees five lacs, fifty five thousand & fourteen) 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 ramming etc all Complete job as per specification and direction of E/I.

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

(1) Surface lead = 7 K.M
Katchha lead = 1 K.M
} 8 K.M

Factor [S.C/225] = 1.60

i.e Carriage Cost (with OH) = [(1.60 × 7 K.M × 17.25) + (1.60 × 1 K.M × 26.95) + 182.39]
= Rs. 418.71

Say Total Cost PM3 (Brick bats) = Rs 1126.78 (Brick bats with OH)
+ Rs 418.71 [Carriage Cost with OH]
+ Rs 322.27 [Labour Cost with OH]
Total Rs 1867.76 PM3 [Without GST + LC + SF]

(2) Surface lead = 6 K.M / Katchha = 1 K.M / Factor = 1.60

Carriage Cost (with OH) :- [(1.60 × 6 K.M × 17.25) + (1.6 × 1 K.M × 26.95) + 182.39]
= Rs 391.11

Total Cost of Brick bats PM3 = Rs 1126.78
+ Rs 391.71
+ Rs 322.27
Total Rs 1840.16 PM3 [Without GST + LC + SF]

(3) Surface lead = 5 K.M / Katchha = 1 K.M / Factor = 1.60

Carriage Cost (with OH) :- [(1.60 × 5 K.M × 17.25) + (1.6 × 1 K.M × 26.95) + 182.39]
= Rs 363.51

Total Cost of Brick bats PM3 = 1126.78
+ 363.51
+ 322.27
Total Rs 1812.56 PM3 [Without GST + LC + SF]

(4) Surface lead 4 K.M / Katchha = 1 K.M / Factor = 1.60

Carriage Cost (with OH) :- [(1.60 × 4 K.M × 17.25) + (1.6 × 1 K.M × 26.95) + 182.39]
= Rs 335.91

Total Cost of Brick bats PM3 = 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) :- [(1.6 × 3 K.M × 17.25) + 43.12 + 182.39)]
= Rs 308.31

Total Cost of Brick bats PM3 = 1126.78 + 308.31 + 322.27 = Rs 1757.36
[Without GST + LC + SF]

नोट :- रिपोर्ट अनुसार कार्य स्थल से रेत / गिट्टी की दूरी का प्रमाण पावती में देखना जरूरी। पावती की दूरी के आधार पर ही दूरी की गणना किया जायेगा।

(A) Labour for laying brick bats / Khama Khoa including light ramming etc.

Unit = Per M3

Taking output = 2.832 M3

Unskilled Mazdoor = 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, stacking

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

(a) Machinery :-

Tractor 3.6 tonne Capacity

i) Time taken for onward haulage with load (1 Time taken for empty return) 0.667 @ 549.10/hour = Rs 366.25

ii) Time taken for empty return - 0.400 @ 549.10/hour = Rs 219.64

Rs 35.15

(b) 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 K.M/hour

Speed for empty return trip 20 KM/hour

(a) Machinery

Tractor 3.6 tonnes Capacity

Time taken for onward 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

(b) OH @ 6% Rs 54.92

Rs 970.27

Cost for 36 t.KM

Rate per t.K.M = Rs 26.95

(C) Loading and unloading brick bats/Khama Khoa/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 for 1 job = 6 Minutes

(i) Labour Rate

Unskilled Labour for loading unloading 0.03 @ 305/- w/day = Rs 9.15

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 capacity 0.083 @ 1402.00/h = Rs 116.45

Rs 23123

(iii) over head (OH) = 6%

Cost Per 2.25 M3 — Rs 410.38

Rate per M3 — Rs 182.39

(D) Supply for Bricks bats (with OH) Basic Rate of Bricks bats Rs 1063.00 Add 6% OH Rs 63.78 Rs 1126.78

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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 Gr 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) Machinary

(a) Hire charge of boat 40 quintal Capacity	= 2 Nos.	@ 1872.00	Rs 3744.00
(b) Hire charge of diesel pump (pumping set)	= 1 No.	@ 300.00	Rs 300.00
(c) Diesel for Pumping set	= 8 Lit	@ 77.00	Rs 616.00
(d) Hire charge of Jet pipe and pipe assembly	= 1 No	@ 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 runners — 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:-

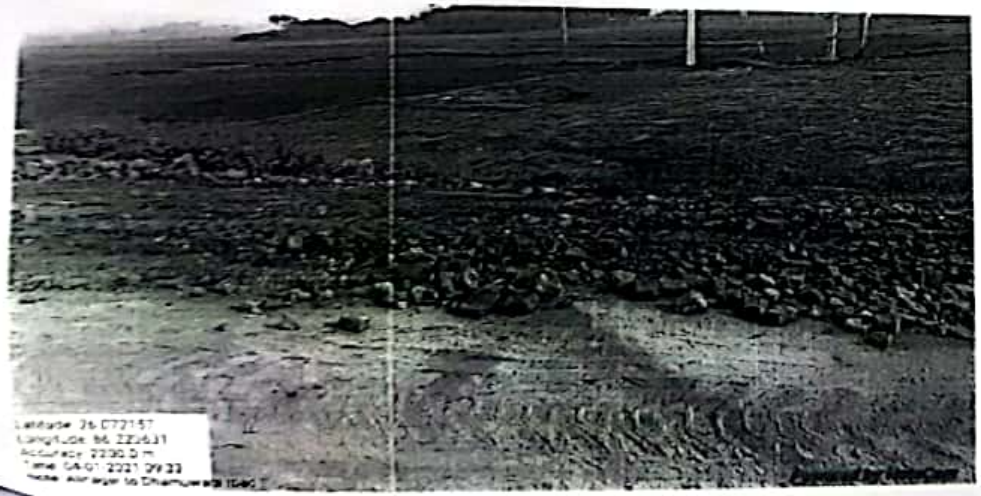
(a) Carpenter Gr II	= 0.125 Nos	@ Rs. 345.00	Rs 43.125
(b) Unskilled Mazdoor	= 0.25 Nos	@ Rs 287.00	Rs 71.750

(ii) Materials:-

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

Total = Rs 144.895
Add 6% OH 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)	Per Bag		8.46	8.86
	Add overhead Charges		5%		0.53
	Total				9.39
	1 No Cement Bag filled with 40 kg./1.2 Cuft Sand				
	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	1.6		
B.	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
			280.71	0.034	9.52
C.	Cost of Labour for Filling Sand Bag,stitching and Placing (with OH)				
	Total (A+B+C)=9.39+9.52+6.20				25.11
	Total Cost per Bag (without Gst+Lc+Sf				25.11



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