

FDR 2021-22

पथ का नाम :- L24 to Galma Modhya Tola

पथ की लम्बाई :-

प्राक्कलित राशि :- Rs 64235=00

प्रतिवेदन

माह मई के अंतिम सप्ताह से लेकर माह अक्टूबर के तीसरे सप्ताह तक लगातार भारी वर्षा, परिणामस्वरूप आयी बाढ़ के चलते अधिकांश पथ अंशतः अथवा पूर्णतः जलमग्न हो गये, पथ में कटाव हो गया एवं यातायात बाधित हो गया।

जनहित, कार्यहित एवं आसन्न पंचायत आम चुनाव एवं विभागीय सचिव महोदय के आदेश (पत्रांक— मु0अ0-4(मू0) विविध कार्य-23-60/2020-1937 पटना, दिनांक-07.07.2021) के आलोक में क्षतिग्रस्त पथों को ईट टुकड़ों से भरकर यातायात बहाल किया गया।

जलस्तर कम होने एवं पानी का बहाव बन्द होने के पश्चात् आदेशानुसार 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 कार्रवाई हेतु समर्पित की जाती है।

3-11-21
कनीय अभियंता
ग्रा0का0वि0, कार्य प्रशाखा,
अलीनगर
दिन 23 अक्टूबर

Charvi
3/11/21
सहायक अभियंता
ग्रा0का0वि0 कार्य अवर प्रमंडल,
अलीनगर
दिन 23 अक्टूबर

3-11-2021
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बेनीपुर

Name of work: Detailed estimate for FDR to the Road
from L24 to Galma Madhya Tola. for the
yr 2021-22.

(A) Labour for cutting 62mm to 75mm dia
bamboo piles to size and making shoes
and driving etc. E/2c

Ch 400.00 m	—	75 Nos
Ch 800.00 m	—	40 Nos
Ch 1050.00 m	—	33 Nos
Ch 1200.00 m	—	25 Nos
Ch 1400.00 m	—	44 Nos
		217.00 Nos.

2c 217 Nos x 2.40 m = 520.80 m

@ 31=20/m ————— Rs 16249=00

(B) Labour for biting and fixing 62mm to
75mm ϕ bamboo runners in position
at every vertical pile. E/2c

Ch. as above item no (A)

2x24m	=	48.0m
2x14m	=	28.0m
2x17m	=	34.0m
2x15m	=	30.0m
2x22m	=	44.0m

184.0m
⇒ 31.0 Nos.

@ Rs 141=50 / each ————— Rs 4387=00

20636=00

P.T.O

B.F

Rs 20636=00

(c) Labour for biting and bixing split bamboo woven chachari in position with 20 swg G.1 wire ----- E/2.c

Ch as above
Item (A)

$$\begin{aligned}
 1 \times 24.0 \text{ m} \times .900 \text{ m} &= 21.60 \text{ m}^2 \\
 1 \times 14.0 \text{ m} \times .900 \text{ m} &= 12.60 \text{ m}^2 \\
 1 \times 15.0 \text{ m} \times .900 \text{ m} &= 13.50 \text{ m}^2 \\
 1 \times 22.0 \text{ m} \times .900 \text{ m} &= 19.80 \text{ m}^2 \\
 2 \times 5.0 \text{ m} \times .900 \text{ m} &= 9.0 \text{ m}^2 \\
 1 \times 4.0 \text{ m} \times .900 \text{ m} &= 3.60 \text{ m}^2 \\
 1 \times 3.0 \text{ m} \times .900 \text{ m} &= 2.70 \text{ m}^2 \\
 \hline
 &82.80 \text{ m}^2
 \end{aligned}$$

@ Rs 82 = 20 / m² ----- Rs 6806 = 00

(D) Pro 2 restoration of rain cut with soil including the labour and ----- E/2.c

Ch as above
Item (A)

$$\begin{aligned}
 1 \times 24.0 \text{ m} \times .600 \text{ m}^{\text{Av}} \times .750 \text{ m}^{\text{Av}} &= 10.80 \text{ m}^3 \checkmark \\
 1 \times 14.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times .750 \text{ m}^{\text{Av}} &= 6.30 \text{ m}^3 \checkmark \\
 1 \times 5.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.750 \text{ m}^{\text{Av}} &= 2.25 \text{ m}^3 \checkmark \\
 1 \times 5.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.750 \text{ m}^{\text{Av}} &= 2.25 \text{ m}^3 \checkmark \\
 1 \times 4.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.600 \text{ m}^{\text{Av}} &= 1.44 \text{ m}^3 \checkmark \\
 1 \times 3.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.600 \text{ m}^{\text{Av}} &= 1.08 \text{ m}^3 \checkmark \\
 1 \times 22.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.750 \text{ m}^{\text{Av}} &= 9.90 \text{ m}^3 \checkmark \\
 1 \times 15.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.600 \text{ m}^{\text{Av}} &= 5.40 \text{ m}^3 \checkmark \\
 1 \times 23.0 \text{ m} \times 0.600 \text{ m}^{\text{Av}} \times 0.750 \text{ m}^{\text{Av}} &= 10.35 \text{ m}^3 \checkmark \\
 \hline
 &49.77 \text{ m}^3
 \end{aligned}$$

@ Rs 404 = 06 / m³ ----- Rs 20110 = 00

Rs 47552 = 00

P.T.O

B.F

Rs 47552=00

(F) Labour for billing empty cement bags with local sand, stitching the bags and placing including supply of sutli and E.C bags etc at site - - - - - Etc

249 Nos

@ Rs 36=90 / bag ————— Rs 9188=00

Rs 56740=00

Add 12% GST ————— (+) Rs 6809=00

Add 1% LC ————— (+) Rs 567=00

Add 10% SF

$49.77 \text{ m}^3 \times 23.98 \times 0.10$ ————— (+) Rs 119=00

Rs 64235=00

~~14~~
3-11-21
JE

Shanki
3/11/21
AE

~~5~~
08/11/21
E.E

Checked and Verified —————

~~12~~
12-12-2021
AE

020
12/12/21
E.E

Technically sanctioned for Rs. 64235=00 (Rupees sixty four thousand Two hundred and thirty five only)

Superintending Engineer
RWD, Works Circle, Darbhanga

SOR SL No.	DESCRIPTION	Unit	Quantity	Rate	Amount In Rs
5.7.7 WRD SOR	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E / I.				
	Unit :- Per M				
	Taking Out put:- 30.50 Mtr				
	(Assuming 20 nos. pile sunk 1.525 mtr deep)				
	Total depth sunk 30.50 meter				
	Labour				
	Carpenter Gr II	Nos	0.25	364	91.00
	Unskilled mazdoor for piling	Nos	2.5	304	760.00
	Add Overhead charge 12 %				102.12
					953.12
	Rate	M			31.25
	Say Rs	M			31.20
2	5.7.8 WRD SOR				
	Labour for fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.i. wire or nails complete job as per specification and direction of E / I.				
	Unit :- Per M2				
	Taking Out put:- 9.30 Sqm				
	(Assuming strip of 3.05x3.05 = 9.30 sqm)				
	Materials				
	75 mm to 100 mm long nails (BCD)	Kg	0.25	58	14.50
	Labour				
	Carpenter Gr II	Nos	1	364	364.00
	Unskilled mazdoor	Nos	1	304	304.00
	Add Overhead charge 12 %				81.90
					764.40
	Rate	M			82.19
	Say Rs	M			82.20
3	5.7.9 WRD SOR				
	Labour for fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E / I.				
	Unit :- Per M				
	Taking Out put:- 30.50 Mtr				
	Materials				
	75 mm to 100 mm long nails (BCD)	Kg	0.5	58	29.00

		Unit= Tonne				
		Taking Output = 3.6 tonnes				
	a	Labour				
		Mate	N s	0.03	321	9.63
		Mazdoor for Loading and Unloading	N s	0.72	304	218.88
	b	Machinery				
		Tractor 3.6 Tonne capacity	H ur	0.72	612.00	440.64
						669.15
		Rate	M			185.88
		Surface Lead	Kl l	2		
		Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	Kl l	1		
		Factor(8/280)	N s	0.02857		
		Carriage(without OH)				
	B	$((0.02857*2*18.14)+(0.02857*1*28.34)+(185.88*0.02857))$				7.16
		A+B				148.66
		Add Overhead charge 12 %				17.84
		Rate	Nr			166.50
		Say Rs	Nr			166.50
Sr.No.27		Supply Of EC bags including Carriage				
5 WRD						
SOR						
		Materials				
		Old Empty Cement Bags (Synthetic)(Annexure I)	Per 100 Nos			292
		Add Overhead charge 12 %				35.04
		Rate	Nr			327.04
		Say Rs	Nr			327.00
5.7.40.1		Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli and EC Bags etc. at site in dry portion all complete as per approved design, specifications and direction of E/I Including Cost and Carriage of Sand				
WRD		Unit=Per 100Nos				
SOR		Taking Out put:- 100 nos				
	a	For filling & stitching & stacking				
		Unskilled mazdoor for filling sand into bags and sewing	Nos	2	304	608
		Sutali	Kg	0.5	19.75	9.875
	F					617.875
	b	Labour rates for carrying filled E.C Bags				
	G	Unskilled mazdoor for carrying filled bags and placing to work site	Nos	3	304	912

	c	Cost of Sand & Carriage by Tractor			
	T	Cost of Sand	Cum	1	141.85
		Carriage Including Loading and Unloading			
1.4 RCD		Cost of Haulage Excluding Loading and Unloading			
		Haulage of materials by Tractor excluding cost of loading, unloading and stacking			
		Unit = t.Km			
		Taking output = 3.60 tonnes load and lead 10 km=36.0 t.km			
		(i) Surface Road			
		Speed with Load:15 km/hour			
		Speed while Returning empty:25km/hour.			
	a)	Machinery			
		Tractor 3.6 tonne capacity			
		Time taken for onward haulage with load	hour	0.667	612.00
		Time taken for empty return trip.	hour	0.400	612.00
		Cost for 36 t Km=a			653.00
		Rate per t.km=(a+b)/36			18.14
		Total Cost	t.Km		18.14
		(ii) Unsurfaced Graveled Road			
		Speed with Load:12 km/hour			
		Speed while Returning empty:20km/hour.			
	a)	Machinery			
		Tractor 3.6 tonne capacity			
		Time taken for onward haulage with load	hour	0.833	612.00
		Time taken for empty return trip.	hour	0.500	612.00
		Cost for 36 t Km=a			815.80
		Rate per t.km=(a+b)/36			22.66
		Total Cost	t.Km		22.66
		(iii) Katcha Track and Track in River Bed/Nallah Bed and Choe Bed			
		Speed with Load:10 km/hour			
		Speed while Returning empty:15km/hour.			
	a)	Machinery			
		Tractor 3.6 tonne capacity			
		Time taken for onward haulage with load	hour	1.000	612.00
		Time taken for empty return trip.	hour	0.667	612.00
		Cost for 36 t Km=a			1,020.20
		Rate per t.km=(a+b)/36			28.34
		Total Cost	t.Km		28.34
1.1RCD		Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum			
		Placing Tractor at Loading point, loading with front loader, dumping turning for return			
		Unit = Cum			
		Taking output = 2.25 Cum			
		Time Required for			
		i) Positioning of Tractor at loading point	1 Min		
		ii) Loading by Front end loader 1 Cum Bucket	5 Min		
		Capacity @ 25 Cum per hour			
		iii) Maneuvering, reversing, dumping and turning for	0 Min		
		iv) Waiting time, unforeseen contingencies etc	0 Min		
		Total	6 Min		
	a)	Labour			

		Mate				
		Mazdoor for loading and unloading	day	0.03	321.00	9.63
		b) Machinery	day	0.72	304.00	218.88
		Tractor 3.6 tonne capacity	hour			
		Front end-loader 1 cum bucket capacity @25 cum/	hour	0.1	612.00	61.20
		Cost for 2.25 cum=(a+b)	hour	0.083	1594.00	132.30
		Rate per cum (Rs)				422.01
Note:-		Unloading will be done manually				187.56
		Surface Lead	KM	2		
		Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
		Factor(3.6/2.25)	Cum	1.6		
		U Carriage(without OH)				
		((1.6*2*18.14)+(1.6*1*28.34)+(187.56))				290.952
	V	T+U				432.802
		Cost of Sand & Carriage By Tractor per for 100nos bag				1,471.53
H	d	For 100 Bags 3.4 Cum Sand Required				
		Cost of EC Bag per 100nos				292
I	e	Total(F+G+H+I)				3293.40
		Add Overhead charge 12 %				395.21
						3688.61
		Rate	No			36.8861
		Say Rs	No			36.90
		Supply of Sand Bag(withot OH)				
A		Basic Rate of Sand Bag	Nos	1	8.48	8.48
		1 No. Cement Bag Filled with 40 Kg/1.2 Cft 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 Bc. Sand Bag Filled with 0.034 Cum sand				
		Tractor				
		Surface Lead	KM	2		
		Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
		Factor(3.6/2.25)	Cum	1.6		
		B Carriage(without OH)				
		((1.6*2*18.14)+(1.6*1*28.34)+(187.56))				290.952
		Cost of Carriage of Sand in Filling of Sand Bag	No	1		9.89
		Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli and EC Bags etc, as per specifications and direction of E/I				
12.9 RCD	C	Unit=Per Bag				

[illegible]

Inspection Report of Flood Damage work

Name of PIUs:- RWD Works Division, Benipur

Name of Block/Road:- Ghaneshyampur / 1024 to Galma Madhya to Ln.

A. For Road

1. Damage Location Chainage:- Ch. 400 to 1400M

2. Damage Length :- 115.0M

3. Nature of Damage :- Flanks

4. Details of Restoration Works

i. Material being used in Restoration works:- Bamboo, 22 bags & earth.

ii. Equipment's /Tools being used in Restoration works:- Tractor.

iii. Procedure taken up in Restoration works:- Fluting on the Plank.

iv. Restored Length:- 115.0M.

B. For Bridge

1. Damage Location Chainage:-

2. Damage Length :-

3. Nature of Damage :-

4. Details of Restoration Works

i. Material being used in Restoration works:-

ii. Equipment's /Tools being used in Restoration works:-

iii. Procedure taken up in Restoration works:-

iv. Restored Length:-

N/A

Work found satisfactory.

Signature of JE/AE/EE

Signature
(Name of Inspection)