



ग्रामीण कार्य विभाग

पथ का नाम	:- To, to Lagma, Harijan tola.
कार्य प्रमण्डल	:- वेनीपुर।
कार्य अंचल	:- दरभंगा।
प्रखण्ड का नाम	:- घनश्यामपुर।
प्राक्कलित राशि	:- Rs 2,61,873 =

प्रतिवेदन

पथ का नाम :- To, to lagoon Harijanpura.
प्राक्कलित राशि :- Rs 2,61,873 = ₹
पथ की लं० :-

यह प्राक्कलन मो० 2,61,873 = ₹ का बनाया गया है। ज्ञात्वय हो कि विगत माह जुलाई-अगस्त 2020 में अतिवृष्टि एवं बाढ़ के कारण घनश्यामपुर प्रखण्ड के बहुत से सड़क में टुटान हो गया। विभागीय आदेश -मु० अ०-04मु० विविध कार्य 23-40/2016-2729अनु० दिनांक-21.08.2020 एवं कार्यपालक अभियंता महोदय के आदेश के अनुपालनार्थ यह प्राक्कलन बनाया गया है। प्राक्कलन के सड़क की अधिक गड्ढी खाई में मिट्टी भरकर तदनुपरान्त ईट टुकड़ा की एक समुचित परत डाल कर यातायात सुलभ हेतु मजबूतीकरण की गई है। फलैंक में क्रॉस पाइलिंग के उपरान्त सीमेंट की खाली बोडी में स्थानीय बालू भरकर सीमेंट कंक्रीट सड़क को बचाने का काम किया गया है।

प्राक्कलन वर्तमान में कार्य अंचल दरभंगा की अनुसूचित दर पर तैयार किया गया है।

प्राक्कलन की POST FACIEO स्वीकृति कार्य हीत एवं जनहीत में अपेक्षित है।

[Signature]
22-09-2020

कनीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा घनश्यामपुर, कार्य अवर प्रमण्डल घनश्यामपुर,

[Signature]
23-09-2020

सहायक अभियंता,
ग्रामीण कार्य विभाग,

[Signature]
23-09-2020

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग
कार्य प्रमण्डल बेनीपुर,

① Name of work :- Detailed estimate for the F.D.R to the Road from Tor, to Lagana Harjiana tolor. for the year 2020-21 under Ghatshyampur (Block)

② for filling the brick-bats including the cost of brick-bats & labour all complete jobs as per specification & direction of B.D.

100 to 110m
200 to 205m
300 to 330m
400 to 415m
500 to 505m
550 to 560m
700 to 730m
450 to 465m

$$1 \text{ Nos} \times 10.0 \times 1.0 \times 0.30 = 3.0 \text{ m}^3$$

$$1 \text{ Nos} \times 5.0 \times 3.0 \times 0.15 = 2.25 \text{ m}^3$$

$$1 \text{ Nos} \times 30.0 \times \frac{3.0+3.50}{2} \times 0.150 = 14.625 \text{ m}^3$$

$$1 \text{ Nos} \times 15.0 \times \frac{3.50+3.0}{2} \times 0.75 = 36.563 \text{ m}^3$$

$$1 \text{ Nos} \times 5.0 \times 2.0 \times 0.30 = 3.00 \text{ m}^3$$

$$1 \text{ Nos} \times 10.0 \times 2.50 \times 0.30 = 7.50 \text{ m}^3$$

$$1 \text{ Nos} \times 20.0 \times \frac{3.0+3.50}{2} \times 0.30 = 27.30 \text{ m}^3$$

$$1 \text{ Nos} \times 15.0 \times 3.50 \times \frac{0.30+0.60}{2} = 23.625 \text{ m}^3$$

Total Qty. 117.813 m³
117.863 m³

117.863 m³ @ Rs 1840.16/m³ = Rs 2,16,887.00

Add 12% GST (+) = Rs 26,026.00

Add 1% LC (+) = Rs 2,169.00

117.863
Add SF 119.813 m³ @ Rs 1063.00/m³ (+) = Rs 12,529.00

Total Rs 2,61,893.00
Rs 2,57,611.00

22-09-2020

23-09-2020

J.E

A.E

Signature

RWD

RWD

E.E

RWD

अभिमत अगिला, 2100 को अ, अमृतम-मार्ग को पथि-756 म/

15713-26.03.21 को अरु अगिला. अगिला-4A अरु अ. अगिला 42 1

Part-fee to T/A for Rs 2,57,611.00 (Rupees Two lakhs - fifty seven thousand six hundred eleven only).

06.05.21

Superintending Engineer

Work Circle, Darbhanga

06/05/2021

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/I.

By TRACTOR. (without C.P.) for Departmental work

$$\textcircled{1} \begin{aligned} \text{Surface lead} &= 7 \text{ K.M} \\ \text{Katchha lead} &= 1 \text{ K.M} \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} 8 \text{ K.M}$$

$$\text{Factor } [3.6/2.25] = 1.60$$

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

$$= \text{Rs. } 418.71$$

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

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

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

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

$$= \text{Rs. } 391.11$$

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

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

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

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

$$= \text{Rs. } 363.51$$

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

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

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

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

$$= \text{Rs. } 335.91$$

$$\text{Total Cost of Bricks bats P.M.B.} = 1126.78 + 335.91 + 322.27 = \text{Rs. } 1784.96$$

$$\text{[without GST + LC + SF]}$$

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

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

$$= \text{Rs. } 308.31$$

$$\text{Total Cost of Bricks bats P.M.B.} = 1126.78 + 308.31 + 322.27 = \text{Rs. } 1757.36$$

$$\text{[without GST + LC + SF]}$$

नोट:- निर्देशानुसार कार्य स्वयं दे प्रभा/विभागी की इवी या प्रमाण प्राप्त करने में दयाकरा जाएगा। साथ ही इवी के आधार पर ही दुबारा की आवश्यकता बता जाएगा।

REF.NO.	DISCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6.6.1 WRD Bihar	Labour for laying dry graded jhama khoa or stone filter under brick pitching or boulder pitching in slope or apron including light ramming etc.all complete job as per specification and direction of E / L.				
	Unit - Per M3				
	Taking Out put - 2.832 cum				
	Unskilled mardoor	Nos.	3	287	861
	Adt 6% Overhead charges				51.66
	Rate for 2.832 Cum				912.66
	Rate for Cum (Rs)-				322.27
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) Surfaced Road				
	Speed with load : 15 km / hour.				
	Speed while Returning empty :25 km / hour.				
	a) Machinery				
	Tractor 3.6 tonne capacity				
	Time taken for onward haulage with load	hour	0.667	549.10	366.25
	Time taken for empty return trip	hour	0.400	549.10	219.64
	b) Overhead charges @ 0.06 on (a)				35.15
	cost for 36 t km = a+b+c				621.04
	Rate per t km = (a+b+c)/36				17.5
	say Rs-				
	(ii) Katcha Road				
	Speed with load: 12 km / hour				
	Speed for empty return trip :20 km / hour				
	a) Machinery				
	Tractor 3.6 tonnes capacity				
	Time taken for onward haulage with load	hour	1	549.1	549.1
	Time taken for empty return trip hour	hour	0.667	549.1	366.2497
	b) Overhead charges @ 0.06 on (a)				54.92
	Cost for 36 t km = a+b+c				970.27
	Rate per t km = (a+b+c)/36				26.95
	say Rs-				

REF.NO.	DISCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand/ Kankeer/Mix of all/ Brick Bats				
	Placing tractor at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip.				
	Unit = cum				
	Taking output = 2.25 cum				
	Time required for				
	i) Positioning of tipper at loading point		1 Min		
	ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		5 Min		
	iii) Maneuvering, reversing, dumping and turning for		0 Min		
	iv) Waiting time, unforeseen contingencies etc. 4 Min		0 Min		
	Total		6 Min		
	a) Labour				
	Mate	day	0.03	305	9.15
	Mazdoor for loading and unloading	day	0.72	287	206.64
	a) Machinery				
	Tractor 3.60 tonnes capacity	hour	0.1	549.1	54.91
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1402	116.35
	b) Overhead charges @ 0.06 on (a+b)				23.23
	Cost for 2.25 cum = a+b+c+d				410.38
	Rate per cum = (a+b+c+d) / 2.25				182.39
	Note: Unloading will be done manually				
2	Supplying for Brick Bats (with OH)				
	Basic rate for Brick Bats	P/M3		1063	
	Add overhead Charges	P/M3		7.78	
	Total			1070.78	1126.78
	Surface Lead	KM	7		
	Unsurface lead	KM	1		
	Factor (3.6/2.25)		1.6		
	Carriage (with OH)				
	$(1.6 \times 7 \times 1070.78) + (1.6 \times 1 \times 1070.78) = 182.39$				418.71
	Cost of Labour for pitching and Light Ramping as per WRD SOR & 6.1 (with OH) with 12% GST				322.27
	Total (A+B+C)				1867.76
	Add 1% Labour Cess (A+B+C)				
	Add 12% GST (A+B+C)				
	Total Cost per Cum				
	For (7km p+1kmk)=without (Gst+Lc+Sl)	Rs			1867.76
	For (6km p+1kmk)=without (Gst+Lc+Sl)	Rs			1840.16
	For (5km p+1kmk)=without (Gst+Lc+Sl)	Rs			1812.56
	For (4km p+1kmk)=without (Gst+Lc+Sl)	Rs			1784.96
	For (3km p+1kmk)=without (Gst+Lc+Sl)	Rs			1757.36
	NOTE:				
	As per the instructions, The distance from brick factory to site will be shown in estimate. Carriage charges will also be adjusted according to distance.				

REF.NO.	DISCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12.9 RCD	Labour for filling Sand Bag, stitching and placing etc. all complete as per specification and direction of E/I				
	unit: per bag				
	Taking output=750 Bag				
	Add 6.0% sutli	kg	3.75	22.2	83.25
	Rate for 750 Bag	Nos	15	287	4305
	Add 6% overhead Charges				263.29
	Mazdoor Rate per Bag (Rs) -				4651.24
	Rate of 1 bag				Rs=6.20
1.4 RCD	Cost of Haulage Excluding Loading and Unloading:				
	Haulage of materials by tipper excluding cost of loading, unloading and stacking.				
	Unit = t.km				
	Taking output 10 tonnes load and lead 10 km =100 t.km				
	Surfaced Road				
	Speed with load : 25 km / hour.				
	Speed while Returning empty :35 km / hour.				
	a) Machinery.				
	Tractor 3.6 tonne capacity				
	Time taken for onward haulage with load	hour	0.667	549.1	366.25
	Time taken for empty return trip.	hour	0.4	549.1	219.64
	b) Overhead charges @ 0.06 on (a)				35.15
	cost for 36 t.km = a+b+c				621.04
	Rate per t.km = (a+b+c)/36				17.251
	Say Rs-				17.25
	Katcha Track				
	Speed with load :12 km / hour				
	Speed while returning empty:20 km / hour				
	a) Machinery				
	Tractor 3.6 tonnes capacity				
	Time taken for onward haulage with load	hour	1	549.1	549.1
	Time taken for empty return trip	hour	0.667	549.1	366.25
	b) Overhead charges @ 0.06 on (a)				54.92
	Cost for 36 t.km = a+b+c				970.27
	Rate per t.km = (a+b+c)/36				26.95
	Say Rs:				26.95

REF.NO.		UNIT	QUANTITY	RATE	AMOUNT
	DISCRIPTION				
1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum				
	Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip.				
	Unit = cum				
	Taking output = 2.25 cum				
	Time required for				
	i) Positioning of tipper at loading point		1min		
	ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		5min		
	iii) Maneuvering, reversing, dumping and turning for return		0min		
	iv) Waiting time, unforeseen contingencies etc.		0min		
	Total		6min		
	a) Labour				
	Mate	day	0.03	305	9.15
	Mazdoor for loading and unloading	day	0.72	287	206.64
	Total				215.79
	a) Machinery	hour	0.1	549.1	
	Tractor 3.60 tonnes capacity	hour	0.083	1403	54.91
	Front end-loader 1 cum bucket capacity @ 25 cum/hour				116.45
	b) Overhead charges @ 0.06 on (a+b)				23.23
	Cost for 2.25 cum = a+b+c+d				410.38
	Rate per cum = (a+b+c+d)/ 2.25				182.39
	Note Unloading will be done manually				

1	Supplying of Sand Bag (with OH)			
A.	Basic Rate of Sand Bag (including cbl+ sand)	Per Bag	8.86	8.86
	Add overhead Charges		6%	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	KM	2	
	Surface Lead	KM	1	
	Katcha Lead	Cum	1.6	
	Factor(3.6/2.25)			
B.	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			
			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+SI			25.11