



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



L042 to Dakshin Tola

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Saraiya 7391	
TOTAL LENGTH OF ROAD	:-	0.239	KM
TOTAL COST OF PROJECT	:-	2074.5	Lac

5.58 lac

Site Photograph

ame of Road:- L042 Dakshin tola

Block- *Sarvajanik*



30/10/21

30/10/21
AE

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- L042 to Dakshin Tola

STRICT

SAMASTIPUR

OCK

Amichromayan

S.NO	DESCRIPTION	AMOUNT LAKH
1	E/W	61217.000
2	BRICK BAT	566856.000
	SUB TOTAL:-	628073.000 493965
	12% GST on Total Amount:-	75368.760 59976
	SUB TOTAL:-	6280.730 4940
	Total Cost (including GST and Labour Cess	709722.000

558181

[Signature]
29/10/2021
Junior Engineer

[Signature]
30/10/21
Assistant Engineer

[Signature]
02/12/21
Executive Engineer

RWD, Works Division, Dalsinghsarai

Technical Camy Approved for Rs 5,58,181.00 Say Five Lakh fifty Eight thousand One Hundred Eighty One Only with G.H.C. 12% CP 10% Bay.

[Signature]
10/12/21
T.A

[Signature]
10.12.2021
बसोदय बसिबस
श्रीवीर ठाई दिवाय
ठाई बसस, बससोदय
10.12.21

FDR
YEAR (2020-2021)
GENERAL ABSTRACT OF COST

LOCK :-

Singh Sarai

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- L042 to Dakshin Tola

S.NO	ITEM OF WORK						AMOUNT	
A								493965
	TOTAL COST OF CONSTRUCTION					:-	Rs.	209722
						SUB TOTAL	:-	Rs. 209722

[Signature]
20/10/21
Junior Engineer

[Signature]
20/10/21
Assistant Engineer

[Signature]
02-12-21
Executive Engineer
RWD, Works Division,
Dalsinghsarai

493965

Cost Estimate for Road Work

FORMAT-6

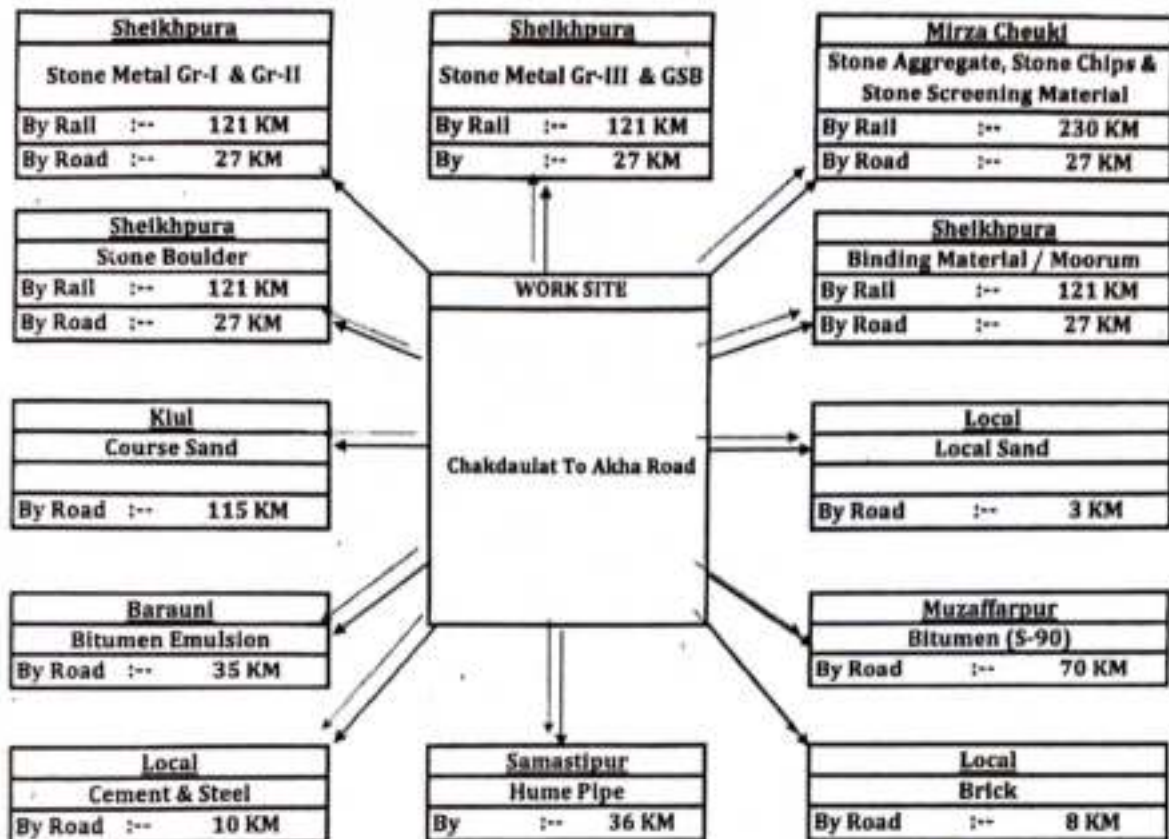
SL.NO	SDB SL.NO	MORD Ref. No	Description	Unit					Quantity	Rate	Amount
1			Earth Work								
			E/W as per specifications and direction of E/L								
				cum	30.00	1+1.5	2.000		75.00		
						2.00					
				cum	30.00	0.90+1.5	1.500		54.00		
						2.00					
				cum	30.00	1.10+1.8	1.500		65.25		
						2.00					
				cum	30.00	1.0+1.50	1.500		56.25		
						2.00					
									250.50	244.38	61217
2			BrickBats								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
				cum	3.00	2.00	1.5+2.00		10.50		
							2.000				
				cum	4.00	2.00	1.5+1.90		13.60		
							2.000				
				cum	1.00	1.00	1.600		1.60		
				cum	5.00	1.90	1.800		17.10		
				cum	7.00	2.00	1.500		21.00		
				cum	12.00	1.50	1.200		21.60		
				cum	8.00	2.00	2.100		33.60		
				cum	5.00	0.90	1.200		5.40		
				cum	6.00	2.10	1.800		22.68		
				cum	15.00	1.30	2.000		39.00		
				cum	6.00	1.80	1.300		14.04		
				cum	7.00	2.10	1.50+2		25.73		
							2.000		0.00		

Figure -3

Quarry Map

Name of Road :- LQ42 to Dakshin Tola
 Block :- L. J. J. J. J.
 District :- Samastipur

Length of the Road:- 0.239 KM



* Subjected to Verification of Lead

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E.E.

S.E.

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Leasing & Unloading Cost	Carriage Cost by Rail Head	Total ₹	Total ₹ Minimum
				Pukka / Surface	Katcha				
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 10.10 x 30.00 Km = Rs 648.93 4.59	8.00 x 24.30 x 0.00 Km = Rs 0.00 4.59	105.12	1025.87	Rs. 1799.92	Rs. 1799.92
2	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 7.94 x 137.00 Km = Rs 1895.91 4.59	8.00 x 19.22 x 0.00 Km = Rs 0.00 4.59	210.19		Rs. 2106.10	
3	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 10.10 x 30.00 Km = Rs 615.31 4.99	8.00 x 24.30 x 0.00 Km = Rs 0.00 4.99	105.12	1128.34	Rs. 1848.77	Rs. 1848.77
4	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 7.94 x 137.00 Km = Rs 1743.94 4.99	8.00 x 19.22 x 0.00 Km = Rs 0.00 4.99	210.19	1128.34	Rs. 3082.47	Rs. 3082.47
5	Stone Aggregate / Chips (Mirza Chitwadi by Rail 230 Km)	Cum	Sheikhpura	8.00 x 10.10 x 30.00 Km = Rs 615.31 4.99	8.00 x 24.30 x 0.00 Km = Rs 0.00 4.99	105.12	1588.15	Rs. 2308.58	Rs. 2308.58
6	Stone Aggregate / Chips (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 7.94 x 137.00 Km = Rs 1743.94 4.99	8.00 x 19.22 x 0.00 Km = Rs 0.00 4.99	210.19	1588.15	Rs. 3542.28	Rs. 3542.28
7	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 10.10 x 38.00 Km = Rs 639.67 4.80	8.00 x 24.30 x 0.00 Km = Rs 0.00 4.80	105.12	1159.81	Rs. 1994.60	Rs. 1994.60
8	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 7.94 x 137.00 Km = Rs 1812.97 4.80	8.00 x 19.22 x 0.00 Km = Rs 0.00 4.80	210.19	1159.81	Rs. 3182.97	Rs. 3182.97
9	Course Sand	Cum	Local	8.00 x 7.94 x 208.00 Km = Rs 2647.73 4.99	8.00 x 19.22 x 0.00 Km = Rs 0.00 4.99	113.67		Rs. 2761.40	Rs. 2761.40
10	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 10.10 x 38.00 Km = Rs 511.73 6.00	8.00 x 24.30 x 0.00 Km = Rs 0.00 6.00	113.67	851.49	Rs. 1476.89	Rs. 1476.89
11	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 x 7.94 x 137.00 Km = Rs 1450.37 6.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 6.00	66.31	851.49	Rs. 2368.17	Rs. 2368.17
12	Local Sand	Cum	Local	8.00 x 10.10 x 2.00 Km = Rs 32.38 4.99	8.00 x 24.30 x 1.00 Km = Rs 38.96 4.99	113.67		Rs. 185.01	Rs. 185.01
13	Brick	1000 Nos	Local	8.00 x 7.94 x 7.00 Km = Rs 222.32 2.00	8.00 x 19.22 x 1.00 Km = Rs 76.88 2.00	477.44		Rs. 776.64	Rs. 776.64
14	Cement	MT	Local	8.00 x 7.94 x 10.00 Km = Rs 79.40 8.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 8.00	347.32		Rs. 426.72	Rs. 426.72
15	Steel	MT	Local	8.00 x 7.94 x 10.00 Km = Rs 79.40 8.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 8.00	370.58		Rs. 449.98	Rs. 449.98
16	Bitumen Emulsion	MT	Itarauni	8.00 x 7.94 x 82.00 Km = Rs 651.08 8.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 8.00	396.98		Rs. 1048.06	Rs. 1048.06
17	Bitumen	MT	Muzaffarpur	8.00 x 7.94 x 91.00 Km = Rs 722.54 8.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 8.00	396.98		Rs. 1119.52	Rs. 1119.52
18	Hume Pipe (1000 mm)	m	Samaatipur	8.00 x 7.94 x 36.00 Km = Rs 228.67 10.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 10.00	70.84		Rs. 299.51	Rs. 299.51
19	Hume Pipe (600 mm)	m	Samaatipur	8.00 x 7.94 x 36.00 Km = Rs 91.47 25.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 25.00	30.36		Rs. 121.83	Rs. 121.83
20	Hume Pipe (300 mm)	m	Samaatipur	8.00 x 7.94 x 36.00 Km = Rs 38.11 60.00	8.00 x 19.22 x 0.00 Km = Rs 0.00 60.00	30.36		Rs. 68.47	Rs. 68.47

Cost of Haulage Excluding Loading & Unloading as per NCM as

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	10.10	7.94
Unsurface Gravel Road	12.10	9.55
Katchha Road	24.30	19.22

* Subjected to Verification of Lead

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Analysis of Rates (FORMAT F8)

Sl. No.		DESCRIPTION		Unit	Quantity	Rate	Amount
HAULAGE BY TIPPER							
1.10	(i)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = tkm Taking output 10 t load and lead 10 km = 100 tkm Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour					
	a)	Machinery Tipper 10 t capacity					
		Haulage with load	hour	0.40	1183.00	473.20	
		Empty return trip	hour	0.29	1183.00	343.07	
	b)	Overheads @ 12%				97.95	
	c)	Contractor's profit @ 10% on (a+b)				91.42	
		Cost for 100 t-km = a+b+c				1005.64	
		Rate per cum = (a+b+c) / 100				10.06	
			Rate Per Km	Cum			100.10
1.10	(ii)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = tkm Taking output 10 t load and lead 10 km = 100 tkm Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour					
	a)	Machinery Tipper 10 t capacity					
		Haulage with load	hour	0.50	1183.00	591.50	
		Empty return trip	hour	0.33	1183.00	390.39	
	b)	Overheads @ 12%				117.83	
	c)	Contractor's profit @ 10% on (a+b)				109.97	
		Cost for 100 t-km = a+b+c				1209.69	
		Rate per cum = (a+b+c) / 100				12.10	
			Rate Per Km	Cum			100.10
1.10	(iii)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = tkm Taking output 10 t load and lead 10 km = 100 tkm Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour					
	a)	Machinery Tipper 10 t capacity					
		Haulage with load	hour	1.00	1183.00	1183.00	
		Empty return trip	hour	0.67	1183.00	792.61	
	b)	Overheads @ 12%				237.07	
	c)	Contractor's profit @ 10% on (a+b)				221.27	
		Cost for 100 t-km = a+b+c				2433.95	
		Rate per cum = (a+b+c) / 100				24.34	
			Rate Per Km	Cum			243.40
HAULAGE BY TRUCK							
1.10	(i)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking.					

Analysis of Rates (FORMAT F8)

Sl. No.	Item No.	Particulars	Unit	Quantity	Rate	Amount
		Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-I: Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t.km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.40 0.29	934.30 934.30	37 27 7 7 79
5	1.10	(II) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t.km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.50 0.33	934.30 934.30	46 30 9 8 95
6	1.10	(III) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-III: Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t.km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	1.00 0.67	934.30 934.30	93 62 187 174 192
7	1.10	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 Unit = cum Taking output = 5.5 cum Time required for i) Positioning of tipper at loading point ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc Total a) Machinery Tipper 5.5 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour Overheads @ 12%	hour hour	0.33 0.93	1183.00 1403.00	39 60 10

Analysis of Rates (FORMAT F8)

Sl. No.		Description		Unit	Quantity	Rate	Amount
		c) Contractor's profit @ 10% on (a+b)					95.58
		Cost for 5.5 cum = a+b+c					1051.36
		Rate per cum = (a+b+c) / 5.5					191.16
1.20	RCD	Loading and Unloading of Boulders by Manual Means					228.00
		Unit = cum					
		Taking output = 5.5 cum					
		a) Labour					
		Mate		day	0.11	321.00	35.31
		Mazdoor for loading and unloading		day	0.75	304.00	228.00
		b) Machinery					
		Tipper 5.5 tonne capacity		hour	0.75	1183.00	887.25
		Overheads @ 12%					138.07
		d) Contractor's profit @ 10% on (a+b+c)					128.86
		Cost for 5.5 cum = a+b+c+d					1417.49
		Rate per cum = (a+b+c+d) / 5.5					257.73
		Unloading will be by tipping					159.75
1.30	RCD	Loading and Unloading of Cement or Steel by Manual Means and					1082.81
		Unit = tonne					
		Taking output = 10 tonnes					
		a) Labour					
		Mate		day	0.08	321.00	25.68
		Mazdoor for loading and unloading		day	2.00	304.00	608.00
		b) Machinery					
		Truck 10 tonne capacity		hour	2.00	934.30	1868.60
		Overheads @ 12%					300.27
		d) Contractor's profit @ 10% on (a+b+c)					280.26
		Cost for 10 tonnes = a+b+c+d					3082.81
		Rate per tonnes = (a+b+c+d) / 10					308.28
1.1	(i)	Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m					140.13
		Unit = cum					
		Taking output = 5.5 cum					
		a) Labour					
		Mate		day	0.02	321.00	6.42
		Mazdoor (Unskilled)		day	0.50	304.00	152.00
		b) Machinery					
		Truck		hour	0.50	934.30	467.15
		c) Overheads @ 12%					75.07
		d) Contractor's profit @ 10% on (a+b+c)					70.06
		Cost for 5.5 cum = a+b+c+d					770.70
		Rate per cum = (a+b+c+d) / 5.5					140.13
	(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.					70.06
		Unit = cum					
		Taking output = 5.5 cum					
		a) Labour					
		Mate		day	0.01	321.00	3.21
		Mazdoor (Unskilled)		day	0.25	304.00	76.00
		b) Machinery					
		Truck		hour	0.25	934.30	233.58
		c) Overheads @ 12%					37.53
		d) Contractor's profit @ 10% on (a+b+c)					35.03
		Cost for 5.5 cum = a+b+c+d					385.35
		Rate per cum = (a+b+c+d) / 5.5					70.06
	(iii)	Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m					3.21
		Unit = cum					
		Taking output = 5.5 cum					
		a) Labour					
		Mate		day	0.01	321.00	3.21

Analysis of Rates (FORMAT F8)

Sl. No.	DDMMYY	ORD. No.	DESCRIPTION	Unit	Quantity	Rate	
			Mazdoor (Unskilled)	day	0.25	304.00	76.00
		b)	Machinery	hour	0.25	934.30	233.58
			Truck				37.53
		c)	Overheads @ 12%				35.40
		d)	Contractor's profit @ 10% on (a+b+c)				385.25
			Cost for 5.5 cum = a+b+c+d				70.86
			Rate per cum = (a+b+c+d) / 5.5				
			Total Cost	Cum			
			Total Loading, Unloading & Stacking of Sand/Moorum	Cum			
13		(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum				
		a)	Labour	day	0.01	321.00	1.61
			Mate	day	0.13	304.00	38.52
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.17	934.30	155.83
			Truck				23.36
		c)	Overheads @ 12%				21.87
		d)	Contractor's profit @ 10% on (a+b+c)				239.87
			Cost for 5.5 cum = a+b+c+d				43.61
			Rate per cum = (a+b+c+d) / 5.5				
			Total Cost	Cum			
			Total Loading & Unloading of Sand/Moorum	Cum			
14	1.3		Loading, Unloading and Stacking of Bricks by Manual Means				
		(i)	Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour	day	0.01	321.00	3.21
			Mate	day	0.25	304.00	76.00
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.33	934.30	308.31
			Truck				46.55
		c)	Overheads @ 12%				43.41
		d)	Contractor's profit @ 10% on (a+b+c)				477.48
			Cost for 2000 Nos. = a+b+c+d				238.57
			Rate for 1000 bricks = (a+b+c+d)/2				
			Total Cost	No.			
			Total Loading & Unloading of Brick	No.			
15		(ii)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour	day	0.01	321.00	3.21
			Mate	day	0.25	304.00	76.00
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.33	934.30	308.31
			Truck				46.55
		c)	Overheads @ 12%				43.41
		d)	Contractor's profit @ 10% on (a+b+c)				477.48
			Cost for 2000 Nos. = a+b+c+d				238.57
			Rate for 1000 bricks = (a+b+c+d)/2				
			Total Cost	No.			
			Total Loading & Unloading of Brick	No.			
16		(i)	Loading and Unloading of Cement by Manual Means Loading of Cement by manual means including a lead upto 30 m Unit = t Taking output = 10 t				
		a)	Labour	day	0.06	321.00	19.26
			Mate	day	1.50	304.00	456.00
			Mazdoor (Unskilled)				

Analysis of Rates (FORMAT F8)

		b)	Machinery		
		c)	Truck		
		d)	Overheads @ 12%	hour	1.00
			Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		934.30
			Rate per tonnes = (a+b+c+d)/10		169.15
					157.87
					1736.58
					173.66
17		(ii)	Unloading of Cement by manual means including a lead upto 30 m		
			Unit = t		
			Taking output = 10 t		
		a)	Labour		
			Mate		
			Mazdoor (Unskilled)	day	0.06
		b)	Machinery	day	1.50
			Truck		304.00
		c)	Overheads @ 12%	hour	1.00
		d)	Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		934.30
			Rate per tonnes = (a+b+c+d)/10		169.15
					157.87
					1736.58
					173.66
18	1.5	(i)	Loading and Unloading of Structural Steel and Steel Bars by manual means		
			Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m		
			Unit = t		
			Taking output = 10 t		
		a)	Labour		
			Mate	day	0.07
			Mazdoor (Unskilled)	day	1.80
		b)	Machinery	hour	1.00
			Truck		934.30
		c)	Overheads @ 12%		934.30
		d)	Contractor's profit @ 10% on (a+b+c)		180.48
			Cost for 10 t = a+b+c+d		168.44
			Rate per tonnes = (a+b+c+d)/10		1852.89
					185.29
19		(ii)	Unloading of Structural Steel, Steel Bars by manual means including a lead upto 30 m		
			Unit = t		
			Taking output = 10 t		
		a)	Labour		
			Mate	day	0.07
			Mazdoor (Unskilled)	day	1.80
		b)	Machinery	hour	1.00
			Truck		934.30
		c)	Overheads @ 12%		934.30
		d)	Contractor's profit @ 10% on (a+b+c)		180.48
			Cost for 10 t = a+b+c+d		168.44
			Rate per t = (a+b+c+d)/10		1852.89
					185.29
1.6		(i)	Loading and Unloading of Bitumen Drums by Manual Means		
			Loading of Bitumen Drums by manual means including a lead upto 30 m		
			Unit = t		
			Taking output = 10 t		
		a)	Labour	day	0.06
			Mate	day	1.60
			Mazdoor (Unskilled)	hour	1.25
		b)	Machinery		934.30
			Truck		934.30
		c)	Overheads @ 12%		1167.88
		d)	Contractor's profit @ 10% on (a+b+c)		200.82
			Cost for 10 t = a+b+c+d		187.44
					2061.80

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Total
Rate per tonnes = (a+b+c+d)/10					
21	(U) Unloading of Bitumen Drums by Manual Means including a lead upto 30 m Unit = t Taking output = 10 t				
a)	Labour	day	0.05	321.00	
	Mate	day	1.20	304.00	
b)	Machinery	hour	1.25	934.30	
c)	Overheads @ 12%				
d)	Contractor's profit @ 10% on (a+b+c)				
	Cost for 10 t = a+b+c+d				
	Rate per t = (a+b+c+d)/10				
Note: The rate is inclusive of the self weight of drum					
Total Cost					
22	1.9 Loading and Unloading of Hume Pipes (I) Loading of RCC Hume pipes by mechanical means including a lead upto 30 m A. 1000 / 1200 mm dia Hume pipe Unit = per pipe Taking output = 9 pipes				
a)	Labour	day	0.02	321.00	
	Mate	day	0.50	304.00	
b)	Machinery	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
c)	Overheads @ 12%				
d)	Contractor's profit @ 10% on (a+b+c)				
	Cost for 9 pipes = a+b+c+d				
	Rate per pipe = (a+b+c+d)/9				
Total Cost					
23	C. 600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipe				
a)	Labour	day	0.02	321.00	
	Mate	day	0.50	304.00	
b)	Machinery	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
c)	Overheads @ 12%				
d)	Contractor's profit @ 10% on (a+b+c)				
	Cost for 21 pipes = a+b+c+d				
	Rate per pipe = (a+b+c+d)/21				
Total Cost					
24	(U) Unloading of RCC Hume pipe by mechanical means including a lead upto 30 m A. 1000/1200 mm dia RCC Hume pipes Unit = per pipe Taking output = 9 pipes				
a)	Labour	day	0.02	321.00	
	Mate	day	0.50	304.00	
b)	Machinery	hour	0.20	934.30	
	Truck	hour	0.20	909.00	
c)	Overheads @ 12%				
d)	Contractor's profit @ 10% on (a+b+c)				
	Cost for 9 pipes = a+b+c+d				
	Rate per pipe = (a+b+c+d)/9				
Total Cost					

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
25	C. 600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipes a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck Crane c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 21 pipes = a+b+c+d Rate per pipe = (a+b+c+d)/21	day day hour hour	0.02 0.50 0.20 0.20	321.00 304.00 934.30 909.00	6.42 152.00 186.86 181.80 63.25 59.03 649.36 30.92
	Total				1000.00
26	1.16 100 Setting Out Pillars Unit = 1 No. Analysis of rates per pillar shall account for following : Typical Benchmark 1 no. as per Dwg no. 200.1 of MORD Data Book (Page 1-18) The rate analysis for a typical benchmark as per dwg. 1. Excavation 2. P.C.C. grade M 10 3. Brick Masonry in CM 1:4 4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work. Add 5 per cent cost of items No.1 to 4 for white washing. Sub Total	cum cum cum sqm	0.33 0.10 0.48 2.63	334.58 6681.46 6237.17 216.63	108.74 668.15 2962.66 569.74 215.46 4524.74
7	1.16 100 Setting Out Pillars Unit = 1 No. Analysis of rates per pillar shall account for following : Reference Pillar 1 no. as per Dwg no. 200.2 of MORD Data Book (Page 1-18) The rate analysis for a typical benchmark as per dwg. 1. Excavation 2. P.C.C. grade M 10 3. Brick Masonry in CM 1:4 4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work. Add 5 per cent cost of items No.1 to 4 for white washing. Sub Total	cum cum cum sqm	0.192 0.060 0.193 1.50	334.58 6681.46 6237.17 216.63	64.24 400.89 1203.77 324.95 99.69 2093.54
	Total 2 Nos. of reference pillars required for 1 Km				4187.08
	Rate of Setting up				1135.52
	Total				5322.60
OLD SOR	8.1.3.2 (III) Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I including carriage cost of bricks. Unit = cum Assuming- 2.832 Cum a) Labour (Unskilled) i) Carrying, spreading, laying & Packing ii) Compaction brick bats with C.I. Hammer. iii) Brick Bat iv) Local Sand Over Heads @ 12 % on (a+b+c) C. Profit @ 10 % on (a+b+c+d) d) Cost for 2.832 cum = a+b+c+d e) Rate Per cum = (a+b+c+d) / 2.832 CARRIAGE Carriage for Brick (1 cum Bats = 300 nos Bricks) Rate per cum with carriage	nos nos Cum Cum	1.50 0.67 2.83 0.63	304.00 304.00 1063.00 141.85	456.00 203.68 3010.42 89.65 451.17 421.09 4632.01 1635.60 233.10 1868.70 3068.70

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Description of Work	Unit	Material	Labour	Overhead & Profit	Rate
27	5.7.6	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/L. Unit = Per M Taking Out put = 10 Joint (Assuming 10 Joints)					
		a) Materials					
		Nut And Bolts 16 mm Dia 225mm Long With Washer etc.	nos	20.00	32.88		657.60
		b) Labor					
		Carpenter Gril	nos	0.50	408.00		204.00
		Unskilled Mazdoor	nos	0.25	304.00		76.00
		c) Overheads @ 12%					112.51
		d) Contractor's profit @ 10% on (a+b+c+d)					105.61
		e) Rate Per cum = (a+b+c+d)/10	Per M				115.51
28	5.7.7	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/L. Unit = Per M Taking Out put = 30.50 M (Assuming 20 nos, Pile Sunk 1.525 Mtr Deep)					
		b) Labor					
		Carpenter Gril	nos	0.25	408.00		102.00
		Unskilled Mazdoor	nos	2.50	304.00		760.00
		c) Overheads @ 12%					103.44
		d) Contractor's profit @ 10% on (a+b+c+d)					96.54
		e) Rate Per cum = (a+b+c+d)/30.5	Per M				34.82
29	5.7.8	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/L. Unit = Per M Taking Out put = 9.30 M (Assuming 20 nos, Pile Sunk 1.525 Mtr Deep)					
		a) Materials					
		75 mm To 100 mm Lon Nails	Kg	0.25	61.74		15.44
		b) Labor					
		Carpenter Gril	nos	1.00	408.00		408.00
		Unskilled Mazdoor	nos	1.00	304.00		304.00
		c) Overheads @ 12%					87.21
		d) Contractor's profit @ 10% on (a+b+c+d)					81.41
		e) Rate Per cum = (a+b+c+d)/9.30	Per M				96.31
30	5.7.9	Labour for fitting and fixing 62 mm 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/L. Unit = Per M Taking Out put = 30.50 M					
		a) Materials					
		75mm To 100 mm Lon Nails	Kg	0.25	61.74		15.44
		b) Labor					
		Carpenter Gril	nos	0.125	408.00		51.00
		Unskilled Mazdoor	nos	0.250	304.00		76.00
		c) Overheads @ 12%					17.8
		d) Contractor's profit @ 10% on (a+b+c+d)					15.9
		e) Rate Per cum = (a+b+c+d)/30.5	Per M				5.1

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
401	Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading II Material Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
(ii)	For Grading II Material Unit = cum				
	Taking output = 300 cum				
a)	Labour				
	Mate				
	Mazdoor (Skilled)	day	0.48	321.00	154.08
	Mazdoor (Unskilled)	day	2.00	385.00	770.00
b)	Machinery				
	Tractor mounted grader arrangement for grading @ 100 cum per hour	day	10.00	304.00	3040.00
	Three wheel 80-100 kN static roller @ 10' cum per hour	hour	12.00	573.20	6878.40
	Tractor with Rotavator 25 cum per hour	hour	30.00	803.00	24090.00
	Water tanker 6 kl capacity	hour	12.00	629.00	7548.00
c)	Material				
	Well graded granular sub-base material as per Table 400.1	hour	5.00	907.00	4535.00
	26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	595.36	80016.38
	9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	506.92	48664.32
	2.36 mm below @ 40 per cent - Local Sand	cum	153.60	141.85	21788.16
	Water	kl	30.00	40.00	1200.00
d)	Overheads @ 12%				23842.12
e)	Contractor's profit @ 10% on (a+b+c+d)				22252.65
	Cost of GSB for 300 cum				244779.11
f)	<u>CARRIAGE</u> A) Cost of GSB without carriage per cum	cum			815.93
	Carriage for GSB material	Cum	0.768	1670.65	1283.06
	Carriage for material below 2.36 mm (Local Sand)	Cum	0.512	185.01	94.73
	Rate per cum with carriage				2193.71

Q15
28.10.21
76

कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल, दलसिंहसराय, समस्तीपुर

पत्रांक 1963
प्रेषक,

दलसिंहसराय / दिनांक 26/11/2021

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, दलसिंहसराय

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, तेघडा।

विषय— एफ०डी०आर योजना के जांच के संबंध में।

प्रसंग— अभियंता प्रमुख, ग्रामीण कार्य विभाग, बिहार पटना के ज्ञापांक — दिनांक - 13/11/2021
महाशय, 4589

उपर्युक्त विषय के संबंध में कहना है कि निम्नलिखित योजनाओं की जांच आपके द्वारा किया जाना है जिसकी सूची प्राक्कलन सहित समर्पित की जाती है।

क्र० सं०	योजना का नाम	प्रखंड	पथ की लम्बाई	प्रा० राशि	अभियुक्ति
1	L079 to Panchayat Harijan Tola	Morwa	0.210	6.23300	
2	Chakdaulat to Akha Road Village road under Ujairpur	Ujiarpur	0.028	2.12000	
3	Nh 28: mazar satanpur to andaha	Ujiarpur	0.060	1.96526	
4	Angar Kerai Path to Angar Kerai (Lilji)	Ujiarpur	0.114	7.73800	
5	Rosera samastipur path to Mahaveer mandir ke nikat se Baijnathpur Bhola Roy Tola Tak	Ujiarpur	0.075	8.94000	
6	Samastipur-Ujjiarpur-Sarairanjan Tajpur Path	Ujiarpur	0.450	13.01000	
7	Constriction of bridge of size 8x24.75 m. on Budhi Gandak river of Mahthi village of Bibhutipur block in Samastipur Dist.	Bibhutipur	0.186	12.10000	
8	L045-L043 to kerai (VR45)	Bibhutipur	0.205	11.44676	
9	L023-MDR TO3 to Mahti (VR23)	Bibhutipur	0.022	0.94548	
10	Samartha - Chandsurari-Surauli Road	Bibhutipur	1.248	15.33500	
11	Maheshpatti Babulal Chowk to Dhamua Road under Ujiarpur block.	Ujiarpur	1.097	16.18400	
12	Kalyanpur Mahabir Temple - Mehsari	Bibhutipur	0.645	12.13000	
13	MMGSY to Sahni Tola	Dalsinghsarai	0.114	1.32100	
14	L052-nh to jitwarpur (VR52)	Sarairanjan	0.181	2.60535	
15	T04 to Yadav Tola	Morwa	0.102	2.27553	
16	L073-T06 to Maripur (VR73)	Morwa	0.060	1.02317	
17	NH 103 Halai Bajar to Malpur chauk Bhaya Rariyahi Bandey Hat Maricha path	Morwa	0.200	2.36921	
18	L042 to Dakshin Tola tak Sadak Nirman Karya	Sarairanjan	0.239	5.58181	
19	T03 to Nagargama West	Dalsinghsarai	0.111	3.90934	
20	T01 NH to Harijan Tola	Dalsinghsarai	0.106	6.13551	
21	L039-MDR to Harshankarpur (VR39)	Dalsinghsarai	0.168	7.94500	
22	L051-T05 to Madhinur (VR51)	Dalsinghsarai	0.025	2.95700	

23	Railway Gumti Raipur Belari path to Mushari	Ujiarpur	0.245	8.30782	
24	SH-103 Petroul Pump to Pachbheda Daddanpur RCD Path(Daddanpur More Chaklul Sahi NH-103 via Pachbheda Path)	Morwa	0.175	1.85146	
25	NH103 - Rampur	Sarairanjan	0.050	2.29068	
26	Lagma to Musapur Bahadurpur Amroli	Sarairanjan	1.900	17.83000	
27	L038 to Dakshin Tola	Sarairanjan	1.095	13.57350	
28	L036 To Dakshin Tola Bhadurpur Armaluli	Sarairanjan	1.200	5.93200	

विश्वासभाजन

Chandran
16.11.2021

कार्यपालक अभियंता

ग्रामीण कार्य विभाग

कार्य प्रमण्डल, दलसिंहसराय

अभियंता प्रमुख का कार्यालय
ग्रामीण कार्य विभाग, बिहार, पटना।

पत्रांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक- 13/11/2021

प्रेषक- अशोक कुमार मिश्रा,
अभियंता प्रमुख

सेवा में,
अधीक्षण अभियंता,
सभी कार्य अंचल,
ग्रामीण कार्य विभाग।

विषय:- वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल करने हेतु किए गए कार्य की जाँच के संबंध में।

महाशय,

वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल करने हेतु किए गए कार्यों की शत प्रतिशत जाँच अपने अंचल के अधीन असंबद्ध कार्यपालक अभियंता एवं उनके अधीनस्थ पदाधिकारियों के दल के माध्यम से सुनिश्चित की जाय। इस जाँच दल के गठन में यह ध्यान रखा जाय कि कार्यपालक अभियंता को जाँच हेतु आवंटित प्रमंडल परस्पर एक दूसरे के प्रमंडल के न हो। जाँच हेतु अंतिम तिथि 25/11/2021 निर्धारित है। इस तरह प्राप्त जाँच प्रतिवेदन भी अन्य सूचनाओं (यथा प्राक्कलन/मापी पुस्तिका की प्रति इत्यादि) की भाँति MIS पर Upload किया जायेगा, जिसके लिए MIS में किए गए प्रावधान के अनुसार अपना जाँच प्रतिवेदन Upload करना सुनिश्चित करें। साथ ही साथ पूर्ण पुनर्स्थापन कार्य हेतु भी DPR निर्माण का कार्य भी 25/11/2021 तक कराया जाए।

उपरोक्त का अनुपालन शत प्रतिशत पथों के लिए सुनिश्चित किया जाय।

विश्वासभाजन

13/11/21
(अशोक कुमार मिश्रा)
अभियंता प्रमुख

ज्ञापांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक 13/11/2021
प्रतिलिपि:- सभी कार्यपालक अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

13/11/21
अभियंता प्रमुख

ज्ञापांक:- मु0अ0-4(मु0)विविध (कार्य)-23-291/2019-4589 दिनांक 13/11/2021
प्रतिलिपि:- आई0टी0 नोडल, ग्रामीण कार्य विभाग को विभागीय वेवसाइट पर अपलोड करने
हेतु प्रेषित।

~~13/11/21~~
अभियंता प्रमुख