



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



Repair of L052 to Jitwarpur

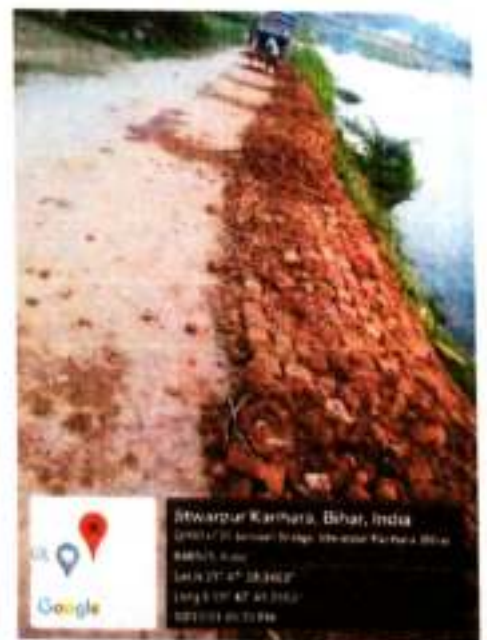
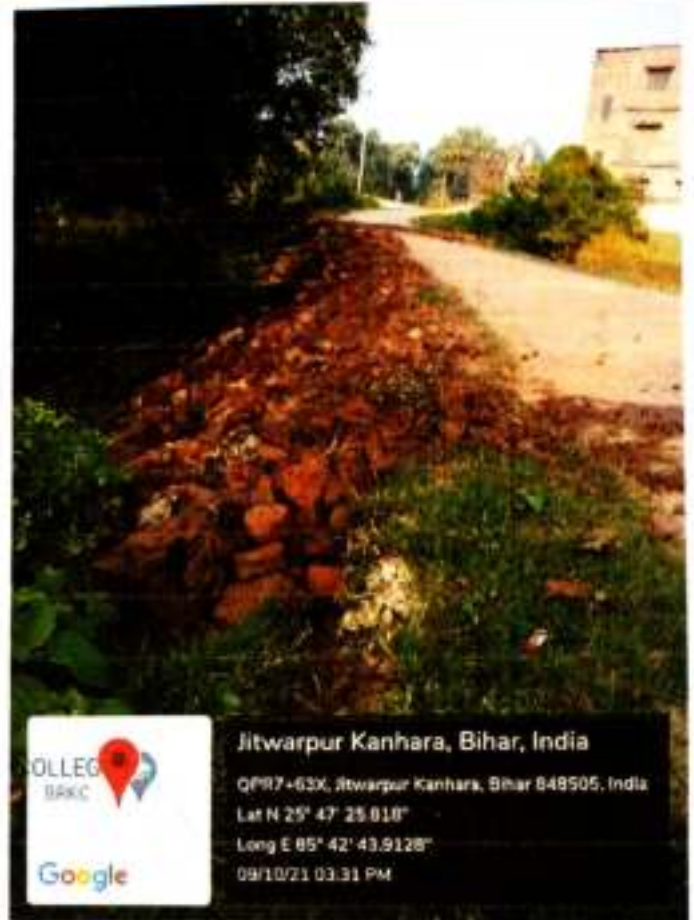
DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Sardar Sarai	
TOTAL LENGTH OF ROAD	:-	2.61 KM	
TOTAL COST OF PROJECT	:-	2.60	Lac

OK

Site Photograph

ne of Road:- L052 NH to Jitwarpur

Block-Sarairanjan



20/10/21
02

20/10/21
AE

SUMMARY OF COST ESTIMAT FOR THE PROJECT

REPAIR OF ROAD :- Repair of L052 to Jitwarpur

RICT

SAMASTIPUR

CK

सदरसन

S.NO	DESCRIPTION	AMOUNT LAKH
1	E/W	70381.000
2	BRICK BAT	160181.000
	SUB TOTAL:-	230562.000
	12% GST on Total Amount:-	27667.440
	SUB TOTAL:-	2305.620
	Total Cost (including GST and Labour Cess	260535.000

[Signature]
30/10/21

Junior Engineer

[Signature]
30/10/21

Assistant Engineer

[Signature]
02/11/21

Executive Engineer

RWD, Works Division, Dalsinghsarai

Technically Approved for Rs 2,60,535 = 00 Lakhs Two Lakhs, Sixty thousand five hundred Thirty Five Rupees only including 12% GST, C.P 10% only.

[Signature]
10/12/21
T.A

[Signature]
10.12.21

प्रमुख कार्यपालक
आजीव कार्य विभाग
कार्य संयोजक, प्रशासकीय

[Signature]
10/12/21

FDR
YEAR (2021-2022)
GENERAL ABSTRACT OF COST

WORK :- *Sarwiganj*

DISTRICT :- SAMASTIPUR

ITEM OF ROAD :- Repair of L052 to Jitwarpur

NO	ITEM OF WORK						AMOUNT	
A								
	TOTAL COST OF CONSTRUCTION					:-	Rs.	260535
					SUB TOTAL	:-	Rs.	260535

[Signature]
29/10/2021
Junior Engineer

[Signature]
30/10/21
Assistant Engineer

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

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	2.00	30.00	1+2.00	2.000		180.00		
							2.00					
				cum	2.00	30.00	0.90+1.50	1.500		108.00		
							2.00					
2			BrickBats							288.00	244.38	70381
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L									
				cum	20.00	1+2	2.000			60.00		
							2.00					
				cum	2.00	4.00	1.500			12.00		
				cum	30.00	1.50	0.150			6.75		
				cum	2.00	4.00	1.500	0.450		5.40		
				cum	1.00	1.00	0.300			0.30		
										84.45	1896.75	160181
									SUB TOTAL=			230562.00
									TOTAL COST OF WORK IN RS			230562.00

22/10/2018
Junior Engineer

30/10/2018
Assistant Engineer

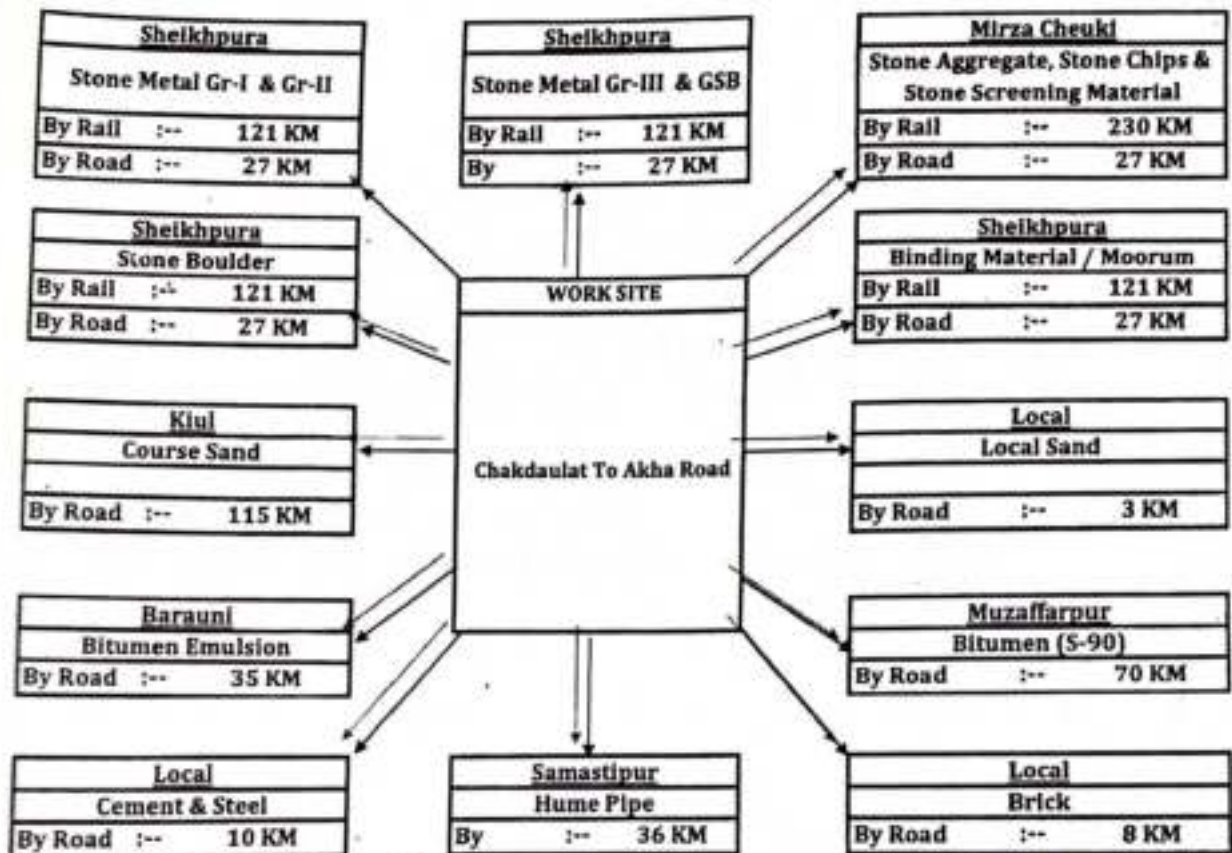
22/10/2018
Executive Engineer
RWD, Works Division, Dalsinghsarai

Figure -3

Quarry Map

Name of Road :- Repair of Bridge L052 to Jitwarpur
 Block :-
 District :- Samastipur

Length of the Road:- 0.061 KM



* Subjected to Verification of Lead

J.E

A.E

E.E

S.E.

Sl No	Item with Source	Unit	Source Up to	Pucka / Surface		Katcha		Loading & Unloading Cost	Carriage Cost by Road	Total ₹	Total ₹ Minimum
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.59	10.10 x 30.00 Km = Rs 661.93	8.00 4.59	24.30 x 0.00 Km = Rs 0.00	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 4.59	7.94 x 137.00 Km = Rs 1095.91	8.00 4.59	19.22 x 0.00 Km = Rs 0.00	210.19		Rs. 2106.10	Rs. 1799.92
3	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.99	10.10 x 30.00 Km = Rs 615.31	8.00 4.99	24.30 x 0.00 Km = Rs 0.00	105.12	1128.34	Rs. 1848.77	Rs. 1848.77
4	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	8.00 4.99	7.94 x 137.00 Km = Rs 1743.94	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	210.19	1128.34	Rs. 3082.47	Rs. 3082.47
5	Stone Aggregate / Chips (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.99	10.10 x 30.00 Km = Rs 615.31	8.00 4.99	24.30 x 0.00 Km = Rs 0.00	105.12	1588.15	Rs. 2308.58	Rs. 2308.58
6	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.99	7.94 x 137.00 Km = Rs 1743.94	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	210.19	1588.15	Rs. 3542.38	Rs. 3542.38
7	Stone Boulder	Cum	Sheikhpura	8.00 4.80	10.10 x 30.00 Km = Rs 639.67	8.00 4.80	24.30 x 0.00 Km = Rs 0.00	105.12	1159.81	Rs. 1904.60	Rs. 1904.60
8	Course Sand	Cum	Sheikhpura	8.00 4.80	7.94 x 137.00 Km = Rs 1812.97	8.00 4.80	19.22 x 0.00 Km = Rs 0.00	210.19	1159.81	Rs. 3182.97	Rs. 3182.97
9	Blinding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Khal	8.00 4.99	7.94 x 208.00 Km = Rs 2647.73	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	113.67		Rs. 2761.40	Rs. 2761.40
10	Blinding Material/Moorum	Cum	Sheikhpura	8.00 6.00	10.10 x 38.00 Km = Rs 511.73	8.00 6.00	24.30 x 0.00 Km = Rs 0.00	113.67	851.49	Rs. 1476.89	Rs. 1476.89
11	Local Sand	Cum	Sheikhpura	8.00 4.99	7.94 x 137.00 Km = Rs 1450.37	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	66.31	851.49	Rs. 1476.89	Rs. 1476.89
12	Brick	1000 Nos	Local	8.00 2.00	10.10 x 2.00 Km = Rs 32.38	8.00 2.00	24.30 x 1.00 Km = Rs 38.96	113.67		Rs. 185.01	Rs. 185.01
13	Cement	MT	Local	8.00 2.00	7.94 x 7.00 Km = Rs 222.32	8.00 2.00	19.22 x 1.00 Km = Rs 76.88	477.44		Rs. 776.64	Rs. 776.64
14	Steel	MT	Local	8.00 2.00	7.94 x 10.00 Km = Rs 79.40	8.00 2.00	19.22 x 0.00 Km = Rs 0.00	347.32		Rs. 426.72	Rs. 426.72
15	Bitumen Emulsion	MT	Local	8.00 2.00	7.94 x 10.00 Km = Rs 79.40	8.00 2.00	19.22 x 0.00 Km = Rs 0.00	370.58		Rs. 449.98	Rs. 449.98
16	Bitumen	MT	Barauni	8.00 2.00	7.94 x 12.00 Km = Rs 651.08	8.00 2.00	19.22 x 0.00 Km = Rs 0.00	396.98		Rs. 1048.06	Rs. 1048.06
17	Hume Pipe (1000 mm)	m	Muzaffarpur	8.00 10.00	7.94 x 91.00 Km = Rs 722.54	8.00 10.00	19.22 x 0.00 Km = Rs 0.00	396.98		Rs. 1119.52	Rs. 1119.52
18	Hume Pipe (600 mm)	m	Samaastipur	8.00 25.00	7.94 x 36.00 Km = Rs 288.67	8.00 25.00	19.22 x 0.00 Km = Rs 0.00	70.84		Rs. 299.51	Rs. 299.51
19	Hume Pipe (300 mm)	m	Samaastipur	8.00 60.00	7.94 x 36.00 Km = Rs 91.47	8.00 60.00	19.22 x 0.00 Km = Rs 0.00	30.36		Rs. 121.83	Rs. 121.83
20			Samaastipur	8.00 60.00	7.94 x 36.00 Km = Rs 38.11	8.00 60.00	19.22 x 0.00 Km = Rs 0.00	30.36		Rs. 68.47	Rs. 68.47

Cost of Haulage Excluding Loading & Unloading as per NTH 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
Kachha Road	24.30	19.22

* Subjected to Verification of Lead

20/10/2021
JE
RWD

20/10/21
AE
RWD

20/10/21
JE
RWD

FORM F8

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
1	1.10 (i) 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-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour	hour	0.40	1183.00	473.20
	a) Machinery Tipper 10 t capacity Haulage with load 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		10.06
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	hour	0.50	1183.00	591.50
	a) Machinery Tipper 10 t capacity Haulage with load 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		12.10
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	hour	1.00	1183.00	1183.00
	a) Machinery Tipper 10 t capacity Haulage with load 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		24.34
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.	DDO's Code	Work Item	Description	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	48 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 18 17 192 11
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	1 Min 13 Min 2 Min 4 Min 20 Min 0.33 0.33	1183.00 1403.00	39 46 15

Analysis of Rates (FORMAT F8)

ITEM NO.		DESCRIPTION	UNIT	MANPOWER	MATERIALS	PRICE	AMOUNT
		c) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c Rate per cum = (a+b+c) / 5.5					95.58 1051.36 191.16
1.20	RCD	Unloading will be by tipper Loading and Unloading of Boulders by Manual Means Unit = cum Taking output = 5.5 cum a) Labour Mate Mazdoor for loading and unloading b) Machinery Tipper 5.5 tonne capacity Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5					191.16
			day	0.11	321.00		35.31
			day	0.75	304.00		228.00
			hour	0.75	1183.00		887.25
							138.07
							128.86
							1417.49
							257.73
1.30	RCD	Unloading will be by tipper Loading and Unloading of Cement or Steel by Manual Means and Unit = tonne Taking output = 10 tonnes a) Labour Mate Mazdoor for loading and unloading b) Machinery Truck 10 tonne capacity Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 10 tonnes = a+b+c+d Rate per tonnes = (a+b+c+d) / 10					450.25
			day	0.08	321.00		25.68
			day	2.00	304.00		608.00
			hour	2.00	934.30		1868.60
							300.27
							280.26
							3082.81
							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 Unit = cum Taking output = 5.5 cum a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5					1085.00
			day	0.02	321.00		6.42
			day	0.50	304.00		152.00
			hour	0.50	934.30		467.15
							75.07
							70.06
							770.70
							140.13
	(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5					1102.40
			day	0.01	321.00		3.21
			day	0.25	304.00		76.00
			hour	0.25	934.30		233.58
							37.53
							35.03
							385.35
							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 Unit = cum Taking output = 5.5 cum a) Labour Mate					70.06
			day	0.01	321.00		3.21

Analysis of Rates (FORMAT F8)

Sl. No.	Spec. No.	Item Description	Unit	Quantity	Rate	Amount	Remarks
		b) Mazdoor (Unskilled)	day	0.25	304.00	76.00	
		c) Machinery	hour	0.25	934.30	233.58	
		Truck				87.50	
		d) Overheads @ 12%				35.00	
		Contractor's profit @ 10% on (a+b+c)				385.20	
		Cost for 5.5 cum = a+b+c+d				760.00	
		Rate per cum = (a+b+c+d) / 5.5					
		Total Cost					
		Total Loading & Unloading of Sand, Moorum, Manure, Flyash					
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	1.60	
		Mate	day	0.13	304.00	39.52	
		Mazdoor (Unskilled)					
		b) Machinery	hour	0.17	934.30	158.83	
		Truck				23.30	
		c) Overheads @ 12%				21.80	
		d) Contractor's profit @ 10% on (a+b+c)				239.80	
		Cost for 5.5 cum = a+b+c+d				434.00	
		Rate per cum = (a+b+c+d) / 5.5					
		Total Cost					
		Total Loading & Unloading of Sand, Moorum, Manure, Flyash					
14	1.3	(i) 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	3.20	
		Mate	day	0.25	304.00	76.00	
		Mazdoor (Unskilled)					
		b) Machinery	hour	0.33	934.30	308.30	
		Truck				46.50	
		c) Overheads @ 12%				43.40	
		d) Contractor's profit @ 10% on (a+b+c)				477.40	
		Cost for 2000 Nos. = a+b+c+d				238.00	
		Rate for 1000 bricks = (a+b+c+d)/2					
		Total Cost					
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	3.20	
		Mate	day	0.25	304.00	76.00	
		Mazdoor (Unskilled)					
		b) Machinery	hour	0.33	934.30	308.30	
		Truck				46.50	
		c) Overheads @ 12%				43.40	
		d) Contractor's profit @ 10% on (a+b+c)				477.40	
		Cost for 2000 Nos. = a+b+c+d				238.00	
		Rate for 1000 bricks = (a+b+c+d)/2					
		Total Cost					
		Total Loading & Unloading of Brick Per 1000					
16		(i) Loading and Unloading of Cement by Manual Means					
		(i) 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	hour	1.00
		d)	Overheads @ 12%		934.30
			Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		169.15
			Rate per tonnes = (a+b+c+d)/10		157.87
17		(II)	Unloading of Cement by manual means including a lead upto 30 m		1736.58
			Unit = t		173.66
		a)	Taking output = 10 t		
			Labour		
			Mate	day	0.06
			Mazdoor (Unskilled)	day	1.50
		b)	Machinery		321.00
			Truck	hour	1.00
		c)	Overheads @ 12%		934.30
		d)	Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		169.15
			Rate per tonne = (a+b+c+d)/10		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		
		a)	Taking output = 10 t		
			Labour		
			Mate	day	0.07
			Mazdoor (Unskilled)	day	1.80
		b)	Machinery		321.00
			Truck	hour	1.00
		c)	Overheads @ 12%		934.30
		d)	Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		180.48
			Rate per tonnes = (a+b+c+d)/10		168.44
					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		321.00
			Truck	hour	1.00
		c)	Overheads @ 12%		934.30
		d)	Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		180.48
			Rate per t = (a+b+c+d)/10		168.44
					1852.89
					185.29
20	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		
			Mate	day	0.06
			Mazdoor (Unskilled)	day	1.60
		b)	Machinery		321.00
			Truck	hour	1.25
		c)	Overheads @ 12%		934.30
		d)	Contractor's profit @ 10% on (a+b+c)		934.30
			Cost for 10 t = a+b+c+d		192.6
					486.40
					1167.88
					200.82
					187.44
					2061.80

Analysis of Rates (FORMAT F8)

Sl. No.	QTY	UNIT	DESCRIPTION	UNIT	RATE	AMOUNT	REMARKS
			Rate per tonnes = (a+b+c+d)/10	Total Cost			
21		(II)	Unloading of Bitumen Drums by Manual Means including a lead upto 30 m Unit = t Taking output = 10 t	day	0.05	321.00	
	a)	Labour	Mate	day	1.20	304.00	
	b)	Machinery	Mazdoor (Unskilled)	hour	1.25	934.30	
	c)	Overheads @ 12%	Truck				
	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	(I)	Loading and Unloading of Hume Pipes 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	day	0.02	321.00	
	a)	Labour	Mate	day	0.50	304.00	
	b)	Machinery	Mazdoor (Unskilled)	hour	0.33	934.30	
	c)	Overheads @ 12%	Truck	hour	0.33	909.00	
	d)	Contractor's profit @ 10% on (a+b+c)	Crane				
			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	day	0.02	321.00	
	a)	Labour	Mate	day	0.50	304.00	
	b)	Machinery	Mazdoor (Unskilled)	hour	0.33	934.30	
	c)	Overheads @ 12%	Truck	hour	0.33	909.00	
	d)	Contractor's profit @ 10% on (a+b+c)	Crane				
			Cost for 21 pipes = a+b+c+d				
			Rate per pipe = (a+b+c+d)/21				
			Total Cost				
24		(II)	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	day	0.02	321.00	
	a)	Labour	Mate	day	0.50	304.00	
	b)	Machinery	Mazdoor (Unskilled)	hour	0.20	934.30	
	c)	Overheads @ 12%	Truck	hour	0.20	909.00	
	d)	Contractor's profit @ 10% on (a+b+c)	Crane				
			Cost for 9 pipes = a+b+c+d				
			Rate per pipe = (a+b+c+d)/9				
			Total Cost				

Analysis of Rates (FORMAT F8)

Analysis of Rates (FORMAT F8)							
No.	BEST NO.	MORD No.	Description	Unit	Quantity	Rate	Total
25		C	600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipes				
		a)	Labour				
			Mate				
		b)	Mazdoor (Unskilled)	day	0.02	321.00	6.42
			Machinery	day	0.50	304.00	152.00
			Truck				
		c)	Crane	hour	0.20	934.30	186.86
		d)	Overheads @ 12%	hour	0.20	909.00	181.80
			Contractor's profit @ 10% on (a+b+c)				63.25
			Cost for 21 pipes = a+b+c+d				59.03
			Rate per pipe = (a+b+c+d)/21				649.36
							30.92
							30.92
							30.92
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.				
				cum	0.33	334.58	108.74
				cum	0.10	6681.46	668.15
				cum	0.48	6237.17	2962.66
				sqm	2.63	216.63	569.74
			Add 5 per cent cost of items No.1 to 4 for white washing.				215.46
			Sub Total	NO			4524.74
27	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.				
				cum	0.192	334.58	64.24
				cum	0.060	6681.46	400.89
				cum	0.193	6237.17	1203.77
				sqm	1.50	216.63	324.95
			Add 5 per cent cost of items No.1 to 4 for white washing.				99.69
			Sub Total	NO			2093.54
							2093.54
							2093.54
28	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	nos	1.50	304.00	456.00
			ii) Compaction brick bats with C.I. Hammer.	nos	0.67	304.00	203.68
			iii) Brick Bat	Cum	2.83	1063.00	3010.42
			iv) Local Sand	Cum	0.63	141.85	89.65
			Over Heads @ 12 % on (a+b+c)				451.17
			C. Profit @ 10 % on (a+b+c+d)				421.09
		d)	Cost for 2.832 cum = a+b+c+d				4632.01
		e)	Rate Per cum=(a+b+c+d)/2.832	cum			1635.60
			<u>CARRIAGE</u>				
			Carriage for Brick (1 cum Bats = 300 nos Bricks)	nos	0.300	776.64	233.10
			Rate per cum with carriage				1868.70
							1868.70

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Rate	Quantity	Amount	Total
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	nos	20.00	32.88		657.60
b)	Nut And Bolts 16 mm Dia 225mm Long With Washer etc.	nos	0.50	408.00		204.00
	Laber	nos	0.25	304.00		76.00
	Carpenter Gril					112.50
	Unskilled Mazdoor					105.00
c)	Overheads @ 12%					115.50
d)	Contractor's profit @ 10% on (a+b+c+d)					
e)	Rate Per cum = (a+b+c+d)/10	Per M				
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)	Laber	nos	0.25	408.00		102.00
	Carpenter Gril	nos	2.50	304.00		760.00
	Unskilled Mazdoor					103.44
c)	Overheads @ 12%					96.54
d)	Contractor's profit @ 10% on (a+b+c+d)					34.82
e)	Rate Per cum = (a+b+c+d)/30.5	Per M				
29	5.7.8	Labour for fitting and fixing split bamboo woven chachari inn 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)	Laber					
	Carpenter Gril	nos	1.00	408.00		408.00
	Unskilled Mazdoor	nos	1.00	304.00		304.00
c)	Overheads @ 12%					87.25
d)	Contractor's profit @ 10% on (a+b+c+d)					81.47
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)	Laber					
	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				5.7

Analysis of Rates (FORMAT F8)

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)				
Mazdoor (Unskilled)				
b) Machinery				
Tractor mounted grader arrangement for grading @ 100 cum per hour	day	0.48	321.00	154.08
Three wheel 80-100 kN static roller @ 10' cum per hour	day	2.00	385.00	770.00
Tractor with Rotavator 25 cum per hour	day	10.00	304.00	3040.00
Water tanker 6 kl capacity	hour	12.00	573.20	6078.40
c) Material	hour	30.00	803.00	24090.00
Well graded granular sub-base material as per Table 400.1	hour	12.00	629.00	7548.00
26.5 mm to 9.5 mm @ 35 per cent	hour	5.00	907.00	4535.00
9.5 mm to 2.36 mm @ 25 per cent				
2.36 mm below @ 40 per cent - Local Sand	cum	134.40	595.36	80016.38
Water	cum	96.00	506.92	48664.32
d) Overheads @ 12%	cum	153.60	141.85	21788.16
e) Contractor's profit @ 10% on (a+b+c+d)	kl	30.00	40.00	1200.00
Cost of GSB for 300 cum				23842.12
				22252.65
f) <u>CARRIAGE</u>				244779.11
A) Cost of GSB without carriage per cum	cum			815.93
Carriage for GSB material				
Carriage for material below 2.36 mm (Local Sand)	Cum	0.768	1670.65	1283.06
Rate per cum with carriage	Cum	0.512	185.01	94.73
				2193.71


 10-21
 7/6

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