ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT

Railway Gumti Raipur Balari Path to Mushari

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Ujiarpur	
TOTAL LENGTH OF ROAD	:-	0.245	KM
TOTAL COST OF PROJECT	:-	8.30	Lac

OK

Site Photograph

Name of Road:- Railway Gumti Raipur Balari Path to Mushari

Block:- Ujiarpur

Distt- Samastipur

YEAR (2021-2022)
GNERAL ABSTRACT OF COST

BLOCK :- Ujiarpur DISTRICT :- SAMASTIPUR

NAME OF ROAD :- Railway Gumti Raipur Balari Path to Mushari

S.NO		ITEM OF WORK					AMOUNT	
A								
	TOTAL COST OF CONSTRUCTION					:-	Rs.	830782
					SUB TOTAL	:-	Rs.	830782

5/11/2021

Junior Engineer

5/11/21

Assistant Engineer

Executive Engineer
RWD, Works Division,
Dalsinghsarai

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- Railway Gumti Raipur Balari Path to Mushari

DISTRICT SAMASTIPUR

BLOCK Ujiarpur

S NO	DESCRIPTION	AMOUNT LAKH
1	Earth Work	60484.05
2	BrickBats	674721.394
	SUB TOTAL :-	735205.444
	12% GST on Total Amount:-	88224.653
	1% lab cess	7352.054
Total Cost (including GST and Labour Cess		830782.151

5/11/2021
Junior Engineer

5/11/21
Assistant Engineer

10.12.2021
Executive Engineer

Technically Approved for Rs 8,30,782=00 Say Eight Lakh thirty thousand Seven Hundred Eighty two only including O.H.C.P.S. & L.C. Contractor Profit 10%.

10.12.2021

10/12/21
T.A.

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य संभाग, दलसिंहसराय

10/12/21
AO

NAME OF ROAD :- Railway Gumti Raipur Balari Path to Mushari

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	1.00+2.00	2.000	180.00		
							2.00				
				cum	1.00	20.00	1.50	1.500	45.00		
				cum	1.00	15.00	1.00	1.500	22.50		
									247.50	**244.38**	**60484.05**
2			**BrickBats**								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
				cum	1.00	15.00	1.50	1.500	33.75		
				cum	1.00	3.00	2.00	1.500	9.00		
				cum	2.00	3.00	3.00	1.200	21.60		
				cum	2.00	5.00	2.00	1.000	20.00		
				cum	2.00	4.00	1.20	1.500	14.40		
				cum	1.00	20.00	3.00	1.000	60.00		
				cum	1.00	17.00	2.00	1.000	34.00		
				cum	1.00	5.00	2.00	1.200	12.00		
				cum	1.00	7.00	2.00	1.500	21.00		
				cum	1.00	10.00	3.00	1.000	30.00		
				cum	1.00	2.00	1.00	0.600	1.20		
				cum	1.00	4.00	2.00	1.000	8.00		

				cum	1.00	10.00	2.00	1.200	24.00		
				cum	1.00	5.00	2.00	1.000	10.00		
				cum	1.00	4.50	1.50	1.500	10.13		
				cum	1.00	2.00	1.50	1.000	3.00		
				cum	1.00	6.00	2.00	1.200	14.40		
				cum	1.00	8.00	1.50	1.500	18.00		
				cum	1.00	4.00	1.50	1.000	6.00		
									355.73	**1896.75**	674721.39
										SUB TOTAL=	735205.44
										TOTAL COST OF WORK IN RS	735205.44

5/11/2024
Junior Engineer

5/11/24
Assistant Engineer

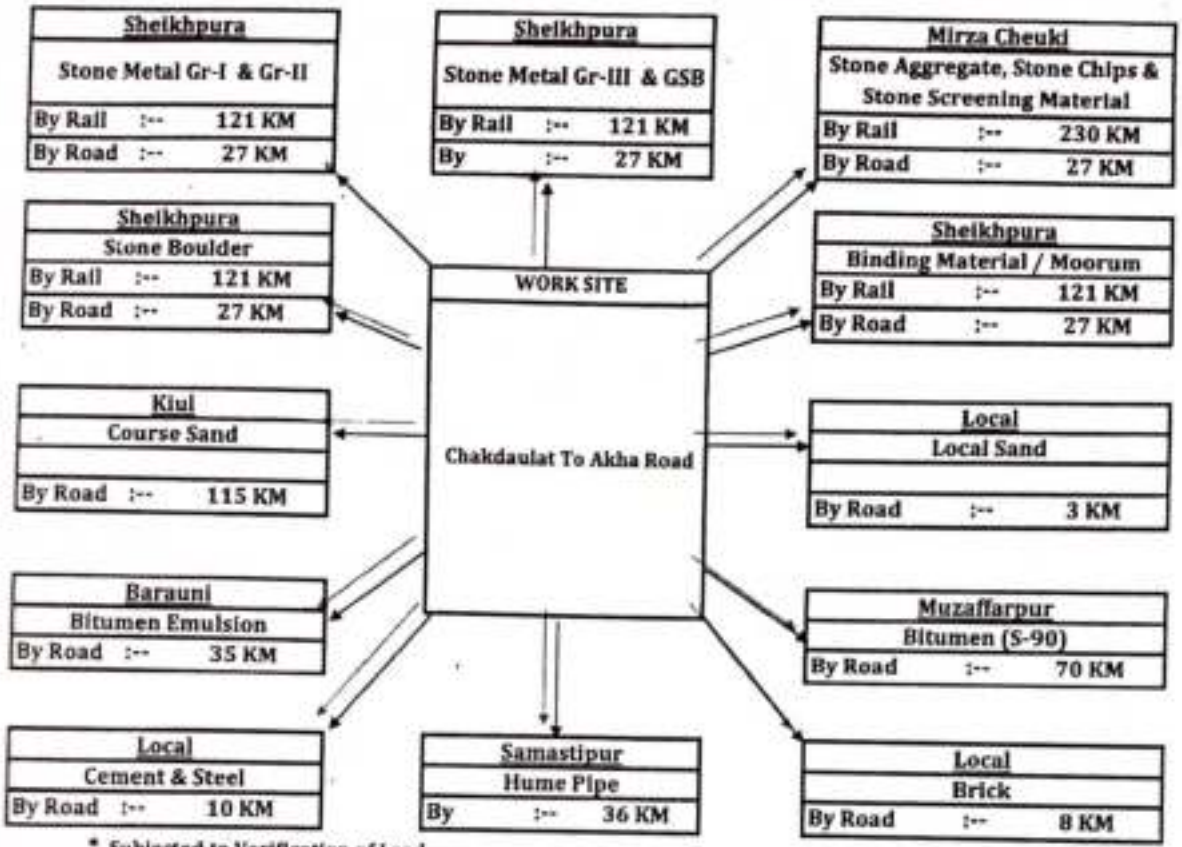
02.12.2024
Executive Engineer
RWD, Works Division, Dalsinghsaral

Figure -3 :---

Quarry Map

Name of Road :-- Railway Gumti Raipur Balari Path to Mushari
Block :-- Ujiarpur
District :-- Samastipur

Length of the Road:- 0.245 KM



* Subjected to Verification of Lead

J.E 5/11/2021

A.E. 5/11/21

E.E

S.E.

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km				Loading & Unloading Cost	Carriage Cost by Rail Head	Total ₹	Total ₹ Minimum
				Pucka / Surface		Katcha					
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00/4.59	x 10.10 x 38.00 Km = Rs 668.93	8.00/4.59	x 24.30 x 0.00 Km = Rs 0.00	105.12	1025.87	Rs. 1799.92	Rs. 1799.92
	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00/4.59	x 7.94 x 137.00 Km = Rs 1895.91	8.00/4.59	x 19.22 x 0.00 Km = Rs 0.00	210.19		Rs. 2106.10	
2	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00/4.99	x 10.10 x 38.00 Km = Rs 615.31	8.00/4.99	x 24.30 x 0.00 Km = Rs 0.00	105.12	1128.34	Rs. 1848.77	Rs. 1848.77
	Stone Metal Gr-III	Cum	Sheikhpura	8.00/4.99	x 7.94 x 137.00 Km = Rs 1743.94	8.00/4.99	x 19.22 x 0.00 Km = Rs 0.00	210.19	1128.34	Rs. 3082.47	
3	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	8.00/4.99	x 10.10 x 38.00 Km = Rs 615.31	8.00/4.99	x 24.30 x 0.00 Km = Rs 0.00	105.12	1588.15	Rs. 2308.58	Rs. 2308.58
	Stone Aggregate / Chips	Cum	Sheikhpura	8.00/4.99	x 7.94 x 137.00 Km = Rs 1743.94	8.00/4.99	x 19.22 x 0.00 Km = Rs 0.00	210.19	1588.15	Rs. 3542.28	
4	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00/4.80	x 10.10 x 38.00 Km = Rs 639.67	8.00/4.80	x 24.30 x 0.00 Km = Rs 0.00	105.12	1159.81	Rs. 1904.60	Rs. 1904.60
	Stone Boulder	Cum	Sheikhpura	8.00/4.80	x 7.94 x 137.00 Km = Rs 1812.97	8.00/4.80	x 19.22 x 0.00 Km = Rs 0.00	210.19	1159.81	Rs. 3182.97	
5	Course Sand	Cum	Kiul	8.00/4.99	x 7.94 x 208.00 Km = Rs 2647.73	8.00/4.99	x 19.22 x 0.00 Km = Rs 0.00	113.67		Rs. 2761.40	Rs. 2761.40
6	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00/6.00	x 10.10 x 38.00 Km = Rs 511.73	8.00/6.00	x 24.30 x 0.00 Km = Rs 0.00	113.67	851.49	Rs. 1476.89	Rs. 1476.89
	Binding Material/Moorum	Cum	Sheikhpura	8.00/6.00	x 7.94 x 137.00 Km = Rs 1450.37	8.00/6.00	x 19.22 x 0.00 Km = Rs 0.00	66.31	851.49	Rs. 2368.17	
7	Local Sand	Cum	Local	8.00/4.99	x 10.10 x 2.00 Km = Rs 32.38	8.00/4.99	x 24.30 x 1.00 Km = Rs 38.96	113.67		Rs. 185.01	Rs. 185.01
8	Brick	1000 Nos	Local	8.00/2.00	x 7.94 x 7.00 Km = Rs 222.32	8.00/2.00	x 19.22 x 1.00 Km = Rs 76.88	477.44		Rs. 776.64	Rs. 776.64
9	Cement	MT	Local	8.00/8.00	x 7.94 x 10.00 Km = Rs 79.40	8.00/8.00	x 19.22 x 0.00 Km = Rs 0.00	347.32		Rs. 426.72	Rs. 426.72
10	Steel	MT	Local	8.00/8.00	x 7.94 x 10.00 Km = Rs 79.40	8.00/8.00	x 19.22 0.00 Km = Rs 0.00	370.58		Rs. 449.98	Rs. 449.98
11	Bitumen Emulsion	MT	Barauni	8.00/8.00	x 7.94 x 82.00 Km = Rs 651.08	8.00/8.00	x 19.22 x 0.00 Km = Rs 0.00	396.98		Rs. 1048.06	Rs. 1048.06
12	Bitumen	MT	Muzaffarpur	8.00/8.00	x 7.94 x 91.00 Km = Rs 722.54	8.00/8.00	x 19.22 x 0.00 Km = Rs 0.00	396.98		Rs. 1119.52	Rs. 1119.52
13	Hume Pipe (1000 mm)	m	Samastipur	8.00/10.00	x 7.94 x 36.00 Km = Rs 228.67	8.00/10.00	x 19.22 x 0.00 Km = Rs 0.00	70.84		Rs. 299.51	Rs. 299.51
14	Hume Pipe (600 mm)	m	Samastipur	8.00/25.00	x 7.94 x 36.00 Km = Rs 91.47	8.00/25.00	x 19.22 x 0.00 Km = Rs 0.00	30.36		Rs. 121.83	Rs. 121.83
15	Hume Pipe (300 mm)	m	Samastipur	8.00/60.00	x 7.94 x 36.00 Km = Rs 38.11	8.00/60.00	x 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 MOR 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	9.53
Kachha Road	24.30	19.22

* Subjected to Verification of Lead

FORM F8

JE
RWD

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PWD

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RWD

Analysis of Rates (FORMAT F8)

SR.NO	MORD No.		DESCRIPTION	Unit	Quantity	Rate	Amount
			HAULAGE BY TIPPER				
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				
		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		10.10
2	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**				
			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		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				
		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		24.30
			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)

			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	hour	0.40	934.30	37
			Empty return trip	hour	0.29	934.30	27
		b)	Overheads @ 12%				7
		c)	Contractor's profit @ 10% on (a+b)				7
			Cost for 100 t-km = a+b+c				79
			Rate per cum = (a+b+c) /100				
				Rate Per Km	Cum		
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	hour	0.50	934.30	46
			Empty return trip	hour	0.33	934.30	30
		b)	Overheads @ 12%				9
		c)	Contractor's profit @ 10% on (a+b)				8
			Cost for 100 t-km = a+b+c				95
			Rate per cum = (a+b+c) /100				
				Rate Per Km	Cum		
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	hour	1.00	934.30	93
		b)	Overheads @ 12%	hour	0.67	934.30	62
		c)	Contractor's profit @ 10% on (a+b)				18
			Cost for 100 t-km = a+b+c				17
			Rate per cum = (a+b+c) /100				192
				Rate Per Km	Cum		1
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		1 Min		
			ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		13 Min		
			iii) Maneuvering, reversing, dumping and turning for return		2 Min		
			iv) Waiting time, unforeseen contingencies etc		4 Min		
			Total		20 Min		
			a) Machinery				
			Tipper 5.5 tonnes capacity				
			Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.33	1183.00	39
			Overheads @ 12%	hour	0.33	1403.00	46

Analysis of Rates (FORMAT F8)

			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
			Unloading will be by tipping				
	1.20	RCD	**Loading and Unloading of Boulders by Manual Means**				
			Unit = cum				
			Taking output = 5.5 cum				
			a) Labour				
			Mate				
			Mazdoor for loading and unloading	day	0.11	321.00	35.31
			b) Machinery	day	0.75	304.00	228.00
			Tipper 5.5 tonne capacity				
			Overheads @ 12%	hour	0.75	1183.00	887.25
			d) Contractor's profit @ 10% on (a+b+c)				138.07
			Cost for5.5 cum = a+b+c+d				128.86
			Rate per cum = (a+b+c+d)/5.5				1417.49
			Unloading will be by tipping				257.73
	1.30	RCD	**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	day	0.08	321.00	25.68
			b) Machinery	day	2.00	304.00	608.00
			Truck 10 tonne capacity				
			Overheads @ 12%	hour	2.00	934.30	1868.60
			d) Contractor's profit @ 10% on (a+b+c)				300.27
			Cost for10 tonnes = a+b+c+d				280.26
			Rate per tonnes = (a+b+c+d)/10				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)	day	0.02	321.00	6.42
		b)	**Machinery**	day	0.50	304.00	152.00
			Truck				
		c)	Overheads @ 12%	hour	0.50	934.30	467.15
		d)	Contractor's profit @ 10% on (a+b+c)				75.07
			Cost for 5.5 cum = a+b+c+d				70.06
			Rate per cum = (a+b+c+d) /5.5				770.70
							140.13
				Total Cost	Cum		
		(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)	day	0.01	321.00	3.21
		b)	**Machinery**	day	0.25	304.00	76.00
			Truck				
		c)	Overheads @ 12%	hour	0.25	934.30	233.58
		d)	Contractor's profit @ 10% on (a+b+c)				37.53
			Cost for 5.5 cum = a+b+c+d				35.03
			Rate per cum = (a+b+c+d) /5.5				385.35
							70.06
				Total Cost	Cum		
		(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	day	0.01	321.00	3.21

Analysis of Rates (FORMAT F8)

			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)				35.01
			Cost for 5.5 cum = a+b+c+d				385.31
			Rate per cum = (a+b+c+d) /5.5				70.06
			Total Cost	Cum			
			Total Loading & Unloading 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**				
			Mate	day	0.01	321.00	1.61
			Mazdoor (Unskilled)	day	0.13	304.00	38.00
		b)	**Machinery**				
			Truck	hour	0.17	934.30	155.09
		c)	Overheads @ 12%				23.36
		d)	Contractor's profit @ 10% on (a+b+c)				21.81
			Cost for 5.5 cum = a+b+c+d				239.87
			Rate per cum = (a+b+c+d) /5.5				43.61
			Total Cost	Cum			43.61
14	1.3		Total Loading & Unloading of Sand/ Moorum	Cum	70.06+43.61		113.67
			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**				
			Mate	day	0.01	321.00	3.21
			Mazdoor (Unskilled)	day	0.25	304.00	76.00
		b)	**Machinery**				
			Truck	hour	0.33	934.30	308.32
		c)	Overheads @ 12%				46.55
		d)	Contractor's profit @ 10% on (a+b+c)				43.49
			Cost for 2000 Nos. = a+b+c+d				477.37
			Rate for 1000 bricks = (a+b+c+d)/2				238.69
			Total Cost	Hour			238.69
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**				
			Mate	day	0.01	321.00	3.21
			Mazdoor (Unskilled)	day	0.25	304.00	76.00
		b)	**Machinery**				
			Truck	hour	0.33	934.30	308.32
		c)	Overheads @ 12%				46.55
		d)	Contractor's profit @ 10% on (a+b+c)				43.49
			Cost for 2000 Nos. = a+b+c+d				477.37
			Rate for 1000 bricks = (a+b+c+d)/2				238.69
			Total Cost	Hour			238.69
16			Total Loading & Unloading of Brick Per 1000 Nos		238.69+238.69		477.38
		(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**				
			Mate	day	0.06	321.00	19.26
			Mazdoor (Unskilled)	day	1.50	304.00	456.00

			b)	**Machinery**				
				Truck				
			c)	Overheads @ 12%	hour	1.00	934.30	934.30
			d)	Contractor's profit @ 10% on (a+b+c)				169.15
				Cost for 10 t = a+b+c+d				157.87
				Rate per tonnes = (a+b+c+d)/10				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	321.00	19.26
			b)	**Machinery**	day	1.50	304.00	456.00
				Truck				
			c)	Overheads @ 12%	hour	1.00	934.30	934.30
			d)	Contractor's profit @ 10% on (a+b+c)				169.15
				Cost for 10 t = a+b+c+d				157.87
				Rate per tonne = (a+b+c+d)/10				1736.58
								173.66
18	1.5			Total Loading & Unloading of Cement				
		(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				
				Mazdoor (Unskilled)	day	0.07	321.00	22.47
			b)	**Machinery**	day	1.80	304.00	547.20
				Truck				
			c)	Overheads @ 12%	hour	1.00	934.30	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	321.00	22.47
				Mazdoor (Unskilled)	day	1.80	304.00	547.20
			b)	**Machinery**				
				Truck	hour	1.00	934.30	934.30
			c)	Overheads @ 12%				180.48
			d)	Contractor's profit @ 10% on (a+b+c)				168.44
				Cost for 10 t = a+b+c+d				1852.89
				Rate per t = (a+b+c+d)/10				185.29
				Total Loading & Unloading of Steel				
	1.6			**Loading and Unloading of Bitumen Drums by Manual Means**				
		(i)		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	321.00	19.26
				Mazdoor (Unskilled)	day	1.60	304.00	486.40
			b)	**Machinery**				
				Truck	hour	1.25	934.30	1167.88
			c)	Overheads @ 12%				200.82
			d)	Contractor's profit @ 10% on (a+b+c)				187.44
				Cost for 10 t = a+b+c+d				2061.80

Analysis of Rates (FORMAT F8)

Sl No.	DSR Item No.	MORD Item No.	Description	Unit	Quantity	Rate	
			Rate per tonnes = (a+b+c+d)/10				
21			Total Cost	t			
		(ii)	Unloading of Bitumen Drums by Manual Means including a lead upto 30 m				
			Unit = t				
		a)	Taking output = 10 t **Labour**				
			Mate	day	0.05	321.00	
		b)	Mazdoor (Unskilled) **Machinery**	day	1.20	304.00	
			Truck	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				
		Note :-	**Rate per t = (a+b+c+d)/10** The rate is inclusive of the self weight of drum				
22	1.9		Total Cost of Unloading of Bitumen Drums				
		(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				
		a)	Taking output = 9 pipes **Labour**				
			Mate	day	0.02	321.00	
		b)	Mazdoor (Unskilled) **Machinery**	day	0.50	304.00	
			Truck	hour	0.33	934.30	
			Crane	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				
23			Total Cost	per pipe			
		C.	**600/450 mm dia Hume pipe**				
			Unit = per pipe				
		a)	Taking output = 21 pipe **Labour**				
			Mate	day	0.02	321.00	
		b)	Mazdoor (Unskilled) **Machinery**	day	0.50	304.00	
			Truck	hour	0.33	934.30	
			Crane	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				
24			Total Cost	per pipe			
		(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				
		a)	Taking output = 9 pipes **Labour**				
			Mate	day	0.02	321.00	
		b)	Mazdoor (Unskilled) **Machinery**	day	0.50	304.00	
			Truck	hour	0.20	934.30	
			Crane	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				

Analysis of Rates (FORMAT F8)

	C.	**600/450 mm dia Hume pipe** Unit = per pipe Taking output = 21 pipes				
	a)	**Labour**				
		Mate				
		Mazdoor (Unskilled)				
	b)	**Machinery**	day	0.02	321.00	6.42
		Truck	day	0.50	304.00	152.00
		Crane				
	c)	Overheads @ 12%	hour	0.20	934.30	186.86
	d)	Contractor's profit @ 10% on (a+b+c)	hour	0.20	909.00	181.80
		Cost for 21 pipes = a+b+c+d				63.25
		Rate per pipe = (a+b+c+d)/21				59.03
						649.36
						30.92
						680.28
						680.28
						30.96
	L.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	cum	0.33	334.58	108.74
		2. P.C.C. grade M 10	cum	0.10	6681.46	668.15
		3. Brick Masonry in CM 1:4	cum	0.48	6237.17	2962.66
		4. Plastering with CM 1:4 , 15 mm thick cement plaster on Brick work.	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
		Total 6 Nos of Pillars required for 1 Km	NO	6.00	724.74	27148.44
	L.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	cum	0.192	334.58	64.24
		2. P.C.C. grade M 10	cum	0.060	6681.46	400.89
		3. Brick Masonry in CM 1:4	cum	0.193	6237.17	1203.77
		4. Plastering with CM 1:4 , 15 mm thick cement plaster on Brick work.	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
		Total 2 Nos of reference pillars required for 1 Km	NO	2.00	2093.54	4187.08
		Cost of Setting out	Km	1.00		31335.52
			Km			31335.52
MLD 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,royality 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)	nos	1.50	304.00	456.00
		I) Carrying,spreading,laying & Packing	nos	0.67	304.00	203.68
		II) Compaction brick bats with C.I. Hammer.	Cum	2.83	1063.00	3010.42
		III) Brick Bat	Cum	0.63	141.85	89.65
		Iv) Local Sand				451.17
		Over Heads @ 12 % on (a+b+c)				421.09
		C. Profit @ 10 % on (a+b+c+d)				4632.01
	d)	Cost for 2.832 cum = a+b+c+d				1635.60
		Rate Per cum=(a+b+c+d)/2.832	cum			
	e)		nos	0.300	776.64	233.10
		CARRIAGE				1868.70
		Carriage for Brick (1 cum Bats = 300 nos Bricks)				
		Rate per cum with carriage	CUM			1868.70

Analysis of Rates (FORMAT F8)

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)	Laber					
			Carpenter Grll	nos	0.50	408.00	204.00	
			Unskilled Mazdoor	nos	0.25	304.00	76.00	
		c)	Overheads @ 12%				112.56	
		d)	Contractor's profit @ 10% on (a+b+c+d)				105.01	
		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)	Laber					
			Carpenter Grll	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 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 Grll	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 runers in position at every vertiacal 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 Grll	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			5.2	

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**				
(II)	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.				
	For Grading II Material				
	Unit = cum				
	Taking output = 300 cum				
a)	**Labour**				
	Mate	day	0.48	321.00	154.08
	Mazdoor (Skilled)	day	2.00	385.00	770.00
	Mazdoor (Unskilled)	day	10.00	304.00	3040.00
b)	**Machinery**				
	Tractar mounted grader arrangement for grading @ 100 cum per hou	hour	12.00	573.20	6878.40
	Three wheel 80-100 kN static roller @ 10 cum per hour	hour	30.00	803.00	24090.00
	Tractor with Rotavator 25 cum per hour	hour	12.00	629.00	7548.00
	Water tanker 6 kl capacity	hour	5.00	907.00	4535.00
c)	**Material**				
	Well graded granular sub-base material as per Table 400.1	cum	134.40	595.36	80016.38
	26.5 mm to 9.5 mm @ 35 per cent	cum	96.00	506.92	48664.32
	9.5 mm to 2.36 mm @ 25 per cent	cum	153.60	141.85	21788.16
	2.36 mm below @ 40 per cent - Local Sand	kl	30.00	40.00	1200.00
	Water				23842.12
d)	Overheads @ 12%				22252.65
e)	Contractor's profit @ 10% on (a+b+c+d)				244779.11
	Cost of GSB for 300 cum				815.93
f)	***CARRIAGE*** **A) Cost of GSB without carriage per cum**	cum			
	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
		Total Cost	CUM		2193.72

28-10-21

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

पत्रांक ....1967....

.दलसिंहसराय / दिनांक 26/11/2024

प्रेषक,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमडल, दलसिंहसराय

सेवा में,

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

विषय– **एफ०डी०आर योजना के जांच के संबंध में।**

प्रसंग– **अभियंता प्रमुख ,ग्रामीण कार्य विभाग,बिहार पटना के ज्ञापांक –** 4589 **दिनाक -** 13/11/2024

महाशय,

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 स०	योजना का नाम	प्रखंड	पथ की लम्बाइ	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-Ujjiyarpur-Sarairanjan Tajpur Path	Ujiarpur	0.450	13.01000	
7	Constriction of bridgeof size 8x24.75 m. on Budhi Gandak river of Mahthi village of Bibhutipur block in Samastipur Dist.	Bibhutipur	0.186	12.10000	
8	L045-LO43 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 Ujiyarpur 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 Madhipur (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 Chaklal Sahi NH-103 via Pacbheda 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

16.11.2021

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल,दलसिंहसराय

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

पत्रांकः– 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।

विषयः– 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 शत् 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 शत् प्रतिशत पथों के लिए सुनिश्चित किया जाय।

विश्वासभाजन

13/11/21

(अशोक कुमार मिश्रा)
अभियंता प्रमुख

ज्ञापांकः– मु0अ0–4(मु0)विविध (कार्य)–23–291/2019 4589 दिनांक 13/11/2021

प्रतिलिपिः– सभी कार्यपालक अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

13/11/21

अभियंता प्रमुख

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

13/11/21
अभियंता प्रमुख