



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



Repair of Bridge Approach H.L. RCC Bridge in Bibhutipur Block
Across Budhi Gandak River Near Mahti.

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Bibhutipur	
TOTAL LENGTH OF ROAD	:-	0.800	KM
TOTAL COST OF PROJECT	:-	15.86 12.0	Lac

12.097 lac

Site Photograph

ne of Bridge:- RCC Bridge in Bibhutipur Block Across Budhi Dandak River Near Mahati

ck:- Bibhutipur

Distt- Samastipur



28/10/21
AE

FDR
YEAR (2021-2022)
GENERAL ABSTRACT OF COST

BLOCK :- BIBHUTIPUR

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- Repair of Bridge Approach H.L. RCC Bridge in Bibhutipur Block Across Budhi Gandak River Near Mahti.

NO	ITEM OF WORK						AMOUNT	
A								
	TOTAL COST OF CONSTRUCTION					-	Rs.	1586045
					SUB TOTAL	-	Rs.	1586045


28.10.21
Junior Engineer

RWD (W) Section, Bibhutipur


25/10/21
Assistant Engineer
RWD (W) Sub Division,
Bibhutipur

Executive Engineer
RWD, Works Division,
Dalsinghsarai

1209712

SUMMARY OF COST ESTIMAT FOR THE PROJECT

ME OF ROAD :- Repair of Bridge Approach H.L. RCC Bridge in Bibhutipur Block Across Budhi Gandak
er Near Mahti.

TRICT

SAMASTIPUR

OCK

BIBHUTIPUR

S.NO	DESCRIPTION	AMOUNT LAKH
1	E/W	450515.000
2	BRICK BAT	529652.000
3	SAND FILLING	423412.920
	SUB TOTAL:-	1403579.920 1070549
	12% GST on Total Amount:-	168429.590 128465
	1% lab cess	14035.799 10705
	Total Cost (including GST and Labour Cess	1586045.000 1209719

Say 12.10 Lakh

(Signature)
28/10/21

Junior Engineer

(Signature)
28/10/21

Assistant Engineer

(Signature)
02.12.21

Executive Engineer

/D (W) Section, Bibhutipur

RWD (W) Sub Division, Bibhutipur

RWD, Works Division, Dalsinghsarai

Technically approved for Rs 12.10 Lakh Say Twelve
ten thousand and only including OMC 12% CP 10% Say

(Signature)
10/12/21
T.H.

(Signature)
10.12.21

अधीनस्थ अधिकारी
आवधिक कार्य विभाग
आवधिक कार्य, आवासीय

(Signature)
10.12.21

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	1.00	55.00	7.500	1.000	412.50		
				cum	4.00	30.00	6.000	1.200	864.00		
				cum	2.00	30.00	5.500	0.900	297.00		
				cum	2.00	25.00	6.000	0.900	270.00		
									1843.50	244.38	450515
2			BrickBats								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
			Damaged Strech	cum	10.50	4.00	0.400		16.80		
			Damaged Strech	cum	22.00	3.00	0.500	1.250	33.00		
			Damaged Strech	cum	4.00	12.50	4.500	0.500	28.13		
			Damaged Strech	cum	8.00	2.50	1.000		20.00		
			Damaged Strech	cum	10.60	3.00	0.600		19.08		
			Damaged Strech	cum	12.00	4.00	0.300		14.40		
			Damaged Strech	cum	6.00	3.00	0.250		4.50		
			Damaged Strech	cum	1.00	12.50	2.500	0.300	9.38		
			Damaged Strech	cum	1.00	14.00	1.500	0.600	12.60		
			Damaged Strech	cum	1.00	20.00	1.500	0.900	27.00		
			Damaged Strech	cum	1.00	18.00	1.800	0.250	8.10		
			Damaged Strech	cum	1.00	13.00	3.000	0.900	35.10		
			Damaged Strech	cum	1.00	12.50	4.500	0.900	50.63		
			Damaged Strech	cum	1.00	8.00	4.000	0.400	12.80		
			Damaged Strech	cum	1.00	22.00	3.600	0.300	23.76		
									315.27	1680.02	529652
3			Sand Filleed Bags								
			Laying Filled Bags on Prepared Surface as per specifications and direction of E/L						303.51		341901

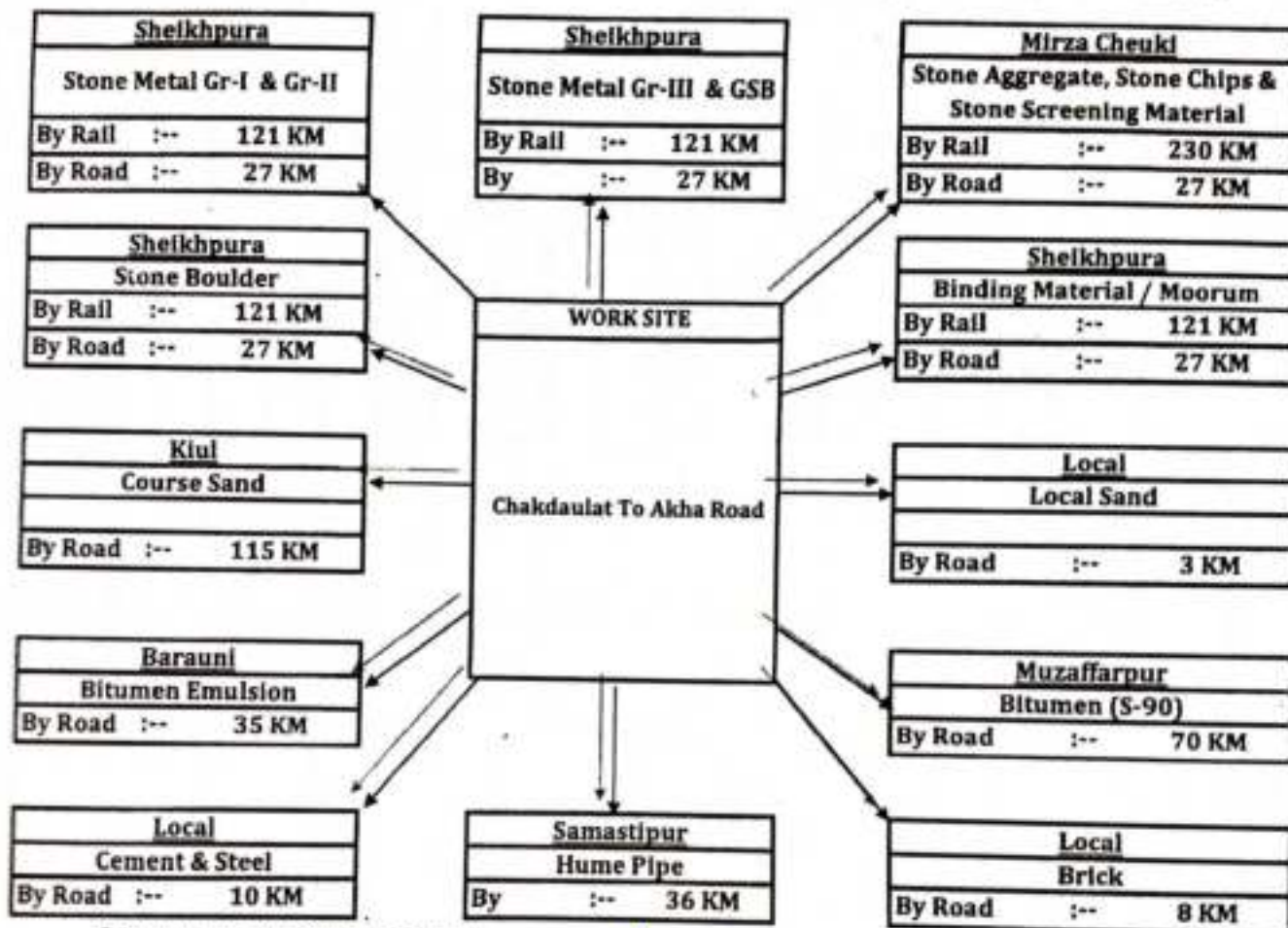
792416 =

Figure -3

Quarry Map

Name of Road :-- Approach H.L.RCC Bridge in Bibhutipur Block Across Budhi Gandak River Near Mahit
 Block :-- Bibhutipur
 District :-- Samastipur

Length of the Road:- 0.800 KM



* Subjected to Verification of Lead

[Signature]
28/10/21
J.E.

[Signature]
28/10/21
A.E.

[Signature]
02.12.21
E.E.

S.E.

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead In Km				Loading & Unloading Cost	Carriage Cost by Road Head	Total ₹	Total ₹ Minimum
				Pukka / Surface		Katcha					
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.59	x 10.10 x 30.00 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 30.00 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 30.00 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 30.00 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	Local	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 x 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 MCR 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

28.10.21

AE PWD

EE RWD

FORM F8

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

		Carriage Cost & Lead in Km				Loading & Unloading		Total
Pucka / Surface				Katcha				
$\frac{8.00}{4.59}$	x 10.10	x 4.00 Km	= Rs 70.41	+	$\frac{8.00}{4.59}$	x 24.30	x 0.00 Km = Rs 0.00	+ Rs 105.12 = Rs 175.53
UnSurface		$\frac{8.00}{4.59}$	x 12.10	x 1.00 Km			=	Rs 21.09
Loading & Unloading Cost by manual						= Rs 210.19		Rs 210.19
						Total =		Rs 406.81
Less for O.H. & C.P.		= Rs 406.81 / 1.166		= Rs 348.89		Total A =		Rs 348.89

Sheikhpura Railway Yard to Karpurigram

Railway Yard = 121.00 Km

Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station	= For 1 MT	121.00 Km	= Rs 231.30	= Rs 231.30
Busy Season charge 15% of Railway freight charge	= For 1 MT		= 15%	= Rs 34.70
Railway Development Charge to 5% of Railway freight charge	For 1 MT		= 5%	= Rs 11.57
Terminal charge @Rs.40.00 per Terminal per MT	For 1 MT		x Rs 40.00	= Rs 0.00
GST 0 % *(4% included in Overhead Charges) =	Rs 277.57 x	0%		= Rs 0.00
Total	=	For 1 MT		= Rs 277.57
Rail Freight =	1.743 x	Rs 277.57	For 1 MT	= Rs 483.80

Cross Charge of Railway for R.R. Charge (A + B) = Rs 767.69

Add 12% Overhead Charge = 12% = Rs 99.92

Add 10% Contractor Profit = 10% = Rs 93.26

Carriage Cost from Quarry to Karpurigram Railway Yard For 1 Cum = Rs 1025.87

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-III / GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

		Carriage Cost & Lead in Km				Loading & Unloading		Total
Pucka / Surface				Katcha				
$\frac{8.00}{4.99}$	x 10.10	x 4.00 Km	= Rs 64.77	+	$\frac{8.00}{4.99}$	x 24.30	x 0.00 Km = Rs 0.00	+ Rs 105.12 = Rs 169.89
UnSurface		$\frac{8.00}{4.99}$	x 12.10	x 1.00 Km			=	Rs 19.40
Loading & Unloading Cost by manual						= Rs 210.19		Rs 210.19
						Total =		Rs 399.48
Less for O.H. & C.P.		= Rs 399.48 / 1.166		= Rs 342.51		Total A =		Rs 342.61

Shelkhpura Railway Yard to Karpurigram Railway Yard = 121.00 Km

Railway freight charge from Shelkhpura Railway station to Karpurigram Railway station

Buy Station charge 15% of Railway freight charge

Railway Development Charge to 5% of Railway freight charge

Terminal charge @Rs.40.00 per Tonnage per MT

GRT @ 1% (1% included in Overhead Charge) = Rs.257.57 x 1% = Rs.2.58

Total = Rs.271.30

Add 12% Overhead Charge = 12% = Rs.325.56
Add 10% Contractor Profit = 10% = Rs.358.12

Analysis for Carriage Through Railway from Quarry Site to Work Site

Mirza Chowki to Karpurigram

Material - Stone Aggregate / Chalk

Quarry Site to Mirza Chowki Railway Yard (By Road)

Carriage Cost & Lead to Km

8.00 x 10.10 = 80.80 + 4.90 = 85.70 x 24.30 = 2082.00 + Rs.0.00 = Rs.105.12 = Rs.168.72

Lead & Unloading Cost by manual = Rs.210.19 = Rs.210.19

Total = Rs.378.91

Mirza Chowki Railway Yard to Karpurigram Railway Yard = 230.00 Km

Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station

Buy Station charge 15% of Railway freight charge

Railway Development Charge to 5% of Railway freight charge

Terminal charge @Rs.40.00 per Tonnage per MT

GRT @ 1% (1% included in Overhead Charge) = Rs.190.37 x 1% = Rs.1.90

Total = Rs.590.37

Add 12% Overhead Charge = 12% = Rs.708.44
Add 10% Contractor Profit = 10% = Rs.849.28

Analysis for Carriage Through Railway from Quarry Site to Work Site

Shelkhpura to Karpurigram

Material - Stone Metal Gr-I / Gr-II

Quarry Site to Shelkhpura Railway Yard (By Road)

Carriage Cost & Lead to Km

8.00 x 10.10 = 80.80 + 4.90 = 85.70 x 24.30 = 2082.00 + Rs.0.00 = Rs.105.12 = Rs.175.53

Lead & Unloading Cost by manual = Rs.210.19 = Rs.210.19

Total = Rs.385.72

Shelkhpura Railway Yard to Karpurigram Railway Yard = 121.00 Km

Railway freight charge from Shelkhpura Railway station to Karpurigram Railway station

Buy Station charge 15% of Railway freight charge

Railway Development Charge to 5% of Railway freight charge

Terminal charge @Rs.40.00 per Tonnage per MT

GRT @ 1% (1% included in Overhead Charge) = Rs.277.57 x 1% = Rs.2.78

Total = Rs.277.57

Add 12% Overhead Charge = 12% = Rs.320.88
Add 10% Contractor Profit = 10% = Rs.352.96

Analysis for Carriage Through Railway from Quarry Site to Work Site

Shelkhpura to Karpurigram

Material - Stone Metal Gr-I / Gr-II

Quarry Site to Shelkhpura Railway Yard (By Road)

Carriage Cost & Lead to Km

8.00 x 10.10 = 80.80 + 4.90 = 85.70 x 24.30 = 2082.00 + Rs.0.00 = Rs.105.12 = Rs.169.89

Lead & Unloading Cost by manual = Rs.210.19 = Rs.210.19

Total = Rs.379.48

Sheekhpura Railway Yard to Karpurigram Railway Yard = 121.00 Km

Railway freight charge from Sheekhpura Railway station to Karpurigram Railway station

Buy Season charge 15% of Railway freight charge

Railway Development Charge to 5% of Railway freight Charge

Terminal charge @Rs.40.00 per Terminal per MT

GST @ 1% (1% included in overhead Charge) = Rs.357.57 * 0%

Total = Rs.357.57

Add 12% Overhead Charge = 12% = Rs.159.96
Add 10% Contractor Profit = 10% = Rs.182.58

Analysis for Carriage Through Railway from Quarry Site to Work Site

Mirza Chowki to Karpurigram

Material: Stone Aggregate / Chips

Quarry Site to Mirza Chowki Railway Yard (By Road)

Pushes / Surface	Carriage Cost & Lead in Km	Kanika	Leaving & Unloading	Total
8.00 x 10.10 x 4.00 Km = Rs.64.77	8.00 x 24.30 x 0.00 Km = Rs.0.00	8.00 x 0.00 = Rs.105.12		Ru.169.87
Underface	8.00 x 12.10 x 1.00 Km = 4.99			Ru.210.19
Leaving & Unloading Cost by manual				Ru.210.19
				Total = Rs.379.99

Mirza Chowki Railway Yard to Karpurigram Railway Yard = 238.00 Km

Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station

Buy Season charge 15% of Railway freight charge

Railway Development Charge to 5% of Railway freight Charge

Terminal charge @Rs.40.00 per Terminal per MT

GST @ 1% (1% included in overhead Charge) = Rs.584.27 * 0%

Total = Rs.584.27

Add 12% Overhead Charge = 12% = Rs.154.60
Add 10% Contractor Profit = 10% = Rs.144.38

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheekhpura to Karpurigram

Material: Stone Boulder

Quarry Site to Sheekhpura Railway Yard (By Road)

Pushes / Surface	Carriage Cost & Lead in Km	Kanika	Leaving & Unloading	Total
8.00 x 10.10 x 4.00 Km = Rs.67.33	8.00 x 24.30 x 0.00 Km = Rs.0.00	8.00 x 0.00 = Rs.172.45		Ru.239.78
Underface	8.00 x 12.10 x 1.00 Km = 4.99			Ru.201.7
Leaving & Unloading Cost by manual				Ru.210.19
				Total = Rs.441.87

Sheekhpura Railway Yard to Karpurigram Railway Yard = 121.00 Km

Railway freight charge from Sheekhpura Railway station to Karpurigram Railway station

Buy Season charge 15% of Railway freight charge

Railway Development Charge to 5% of Railway freight Charge

Terminal charge @Rs.40.00 per Terminal per MT

GST @ 1% (1% included in overhead Charge) = Rs.357.57 * 0%

Total = Rs.357.57

Add 12% Overhead Charge = 12% = Rs.112.97
Add 10% Contractor Profit = 10% = Rs.105.44

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheekhpura to Karpurigram

Material: Blinding Material / Meersum

Quarry Site to Sheekhpura Railway Yard (By Road)

Pushes / Surface	Carriage Cost & Lead in Km	Kanika	Leaving & Unloading	Total
8.00 x 10.10 x 4.00 Km = Rs.53.67	8.00 x 24.30 x 0.00 Km = Rs.0.00	8.00 x 0.00 = Rs.66.31		Ru.120.18
Underface	8.00 x 12.10 x 1.00 Km = 4.00			Ru.113.67
Leaving & Unloading Cost by manual				Ru.113.67
				Total = Rs.243.85

Analysis of Rates (FORMAT F8)

Shedding from	Railway Yard to	Karapipergan	Railway Yard =	121.00 Km
Railway freight charge from Shedding to Railway station in Karapipergan Railway station	Per 1 MT	121.00 Rs	=	Rs 231.39
Wagon charges 15% of Railway freight charge	Per 1 MT		=	15%
Railway Development Charge to 5% of Railway freight Charge	Per 1 MT		=	5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT	2	=	Rs 80.00
ETP & M & W included in Overhead Charge =			=	Rs 25.57
Total	Per 1 MT	121.00	=	Rs 362.96
Add 12% Overhead Charge	=	12%	=	Rs 43.56
Add 10% Contractor Profit	=	10%	=	Rs 36.29

	S.No	Description	Unit	Quantity	Rate	Amount
1	L-10	(I)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = Cum			
		a)	Taking output 10 t load and lead 10 km = 100 Cum Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 Cum = a+b+c Rate per cum = (a+b+c) / 100	hour	6.48	1183.00
		b)		hour	0.29	1183.00
		c)				73.20
						243.07
						97.95
						91.42
						1005.64
						16.66
						12.10
2	L-10	(II)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = Cum			
		a)	Taking output 10 t load and lead 10 km = 100 Cum Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 Cum = a+b+c Rate per cum = (a+b+c) / 100	hour	0.50	1183.00
		b)		hour	0.33	1183.00
		c)				591.58
						390.39
						117.83
						109.97
						1209.68
						12.10
3	L-10	(iii)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = Cum			
		a)	Taking output 10 t load and lead 10 km = 100 Cum Case-III : Kancha Track and Track In River Bed/Wallah Bed and Chase Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 Cum = a+b+c Rate per cum = (a+b+c) / 100	hour	1.00	1183.00
		b)		hour	0.67	1183.00
		c)				792.61
						237.07
						231.27
						2433.95
						24.34
						28.35

Analysis of Rates (FORMAT F8)

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Analysis of Rates (FORMAT B8)

Sl. No.	Particulars	Unit	Rate	Quantity	Amount
12	(iv) Unloading of Earth, Sand, Shingles, Marbles, Tiles by manual means including a head upto 30 m. Unit = cum	hour	0.25	304.40	76.10
	Trucking output = 5.5 cum	hour	0.25	934.30	233.58
a) Labour		day	0.01	321.00	3.21
b) Machine (Unskilled)		day	0.13	304.00	39.52
c) Truck		hour	0.17	934.30	158.83
d) Overheads @ 12%					18.95
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 10 t = a+b+c+d					1736.50
Rate per cum = (a+b+c+d)/5.5					315.73
Rate per cum = (a+b+c+d)/5.5					315.73
13	(i) Loading and Unloading of Cement by Manual Means Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.06	321.00	19.26
b) Machine (Unskilled)		day	1.50	304.00	456.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.15
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 10 t = a+b+c+d					1736.50
Rate per tonne = (a+b+c+d)/10					173.65
Rate per tonne = (a+b+c+d)/10					173.65
14	(ii) Loading and Unloading of Cement by Manual Means Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.06	321.00	19.26
b) Machine (Unskilled)		day	1.50	304.00	456.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.15
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 10 t = a+b+c+d					1736.50
Rate per tonne = (a+b+c+d)/10					173.65
Rate per tonne = (a+b+c+d)/10					173.65
15	(iii) Unloading and Stacking of Bricks by manual means including a head upto 30 m. Unit = 1000 Nos.	hour	0.33	934.30	308.33
a) Labour		day	0.01	321.00	3.21
b) Machine (Unskilled)		day	0.25	304.00	76.10
c) Truck		hour	0.33	934.30	308.33
d) Overheads @ 12%					36.5
e) Contractor's profit @ 10% on (a+b+c)					30.83
Cost for 2000 Nos. = a+b+c+d					414.4
Rate for 1000 bricks = (a+b+c+d)/2					207.2
Rate for 1000 bricks = (a+b+c+d)/2					207.2
16	(iv) Loading and Unloading of Cement by Manual Means Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.06	321.00	19.26
b) Machine (Unskilled)		day	1.50	304.00	456.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.15
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 2000 Nos. = a+b+c+d					1736.50
Rate per tonne = (a+b+c+d)/10					173.65
Rate per tonne = (a+b+c+d)/10					173.65

Analysis of Rates (FORMAT B8)

Sl. No.	Particulars	Unit	Rate	Quantity	Amount
17	(i) Unloading of Cement by manual means including a head upto 30 m. Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.06	321.00	19.26
b) Machine (Unskilled)		day	1.50	304.00	456.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.15
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 10 t = a+b+c+d					1736.50
Rate per tonne = (a+b+c+d)/10					173.65
Rate per tonne = (a+b+c+d)/10					173.65
18	(ii) Loading and Unloading of Cement by Manual Means Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.06	321.00	19.26
b) Machine (Unskilled)		day	1.50	304.00	456.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.15
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 10 t = a+b+c+d					1736.50
Rate per tonne = (a+b+c+d)/10					173.65
Rate per tonne = (a+b+c+d)/10					173.65
19	(iii) Unloading of Structural Steel, Steel Bars by manual means including a head upto 30 m. Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.07	321.00	22.47
b) Machine (Unskilled)		day	1.00	304.00	304.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.46
e) Contractor's profit @ 10% on (a+b+c)					168.44
Cost for 10 t = a+b+c+d					1437.59
Rate per tonne = (a+b+c+d)/10					143.76
Rate per tonne = (a+b+c+d)/10					143.76
20	(iv) Loading and Unloading of Cement by Manual Means Unit = t	hour	1.00	934.30	934.30
a) Labour		day	0.06	321.00	19.26
b) Machine (Unskilled)		day	1.50	304.00	456.00
c) Truck		hour	1.00	934.30	934.30
d) Overheads @ 12%					108.15
e) Contractor's profit @ 10% on (a+b+c)					157.87
Cost for 10 t = a+b+c+d					1736.50
Rate per tonne = (a+b+c+d)/10					173.65
Rate per tonne = (a+b+c+d)/10					173.65

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Total
21	(10) Unloading of Bitumen Drums by Manual Means including a lead upto 10 m Unit = 1 Tacking output = 18 t	day	0.05	321.00	
	Labour	day	1.20	304.00	
	Material (Unskilled)	hour	1.25	934.30	
	Truck	hour			
	Overheads @ 12%				
	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					
22	(11) Laying and Unloading of Bitumen Pipes Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = per pipe Tacking output = 9 pipes	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	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	(12) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = per pipe Tacking output = 21 pipes	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	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	(13) Unloading of RCC House pipes by mechanical means including a lead upto 30 m Unit = per pipe Tacking output = 9 pipes	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	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 Laying & Unloading of RCC House Pipes per Pipe = 314.92 + 32.15 = 347.07 / 2.50 = 138.83					

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Total
25	(14) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = per pipe Tacking output = 21 pipes	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	Contractor's profit @ 10% on (a+b+c)				
	Cost for 21 pipes = a+b+c+d				
	Rate per pipe = (a+b+c+d)/21				
26	(15) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = 1 No. Tacking output = 100	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	Contractor's profit @ 10% on (a+b+c)				
	Cost for 100 = a+b+c+d				
	Rate per pipe = (a+b+c+d)/100				
27	(16) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = 1 No. Tacking output = 100	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	Contractor's profit @ 10% on (a+b+c)				
	Cost for 100 = a+b+c+d				
	Rate per pipe = (a+b+c+d)/100				
28	(17) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = 1 No. Tacking output = 100	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	Contractor's profit @ 10% on (a+b+c)				
	Cost for 100 = a+b+c+d				
	Rate per pipe = (a+b+c+d)/100				
Total Laying & Unloading of RCC House Pipes per Pipe = 347.07 + 32.15 = 379.22 / 2.50 = 151.69					

Sl. No.	Particulars	Unit	Quantity	Rate	Total
29	(18) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = 1 No. Tacking output = 100	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	Contractor's profit @ 10% on (a+b+c)				
	Cost for 100 = a+b+c+d				
	Rate per pipe = (a+b+c+d)/100				
30	(19) Laying of RCC House pipes by mechanical means including a lead upto 30 m Unit = 1 No. Tacking output = 100	day	0.02	321.00	
	Labour	day	0.50	304.00	
	Material (Unskilled)	hour	0.33	934.30	
	Truck	hour	0.33	909.00	
	Overheads @ 12%				
	Contractor's profit @ 10% on (a+b+c)				
	Cost for 100 = a+b+c+d				
	Rate per pipe = (a+b+c+d)/100				
Total Laying & Unloading of RCC House Pipes per Pipe = 379.22 + 32.15 = 411.37 / 2.50 = 164.55					

Analysis of Rates (FORMAT B8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
27	5.7.6				
	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making above and driving etc complete job as per specification and direction of E/L.				
	Unit = Per M Taking Out put = 10 jobs (Assuming 10 jobs)				
	Materials	nos	20.00	32.88	657.60
	Not And Bolts 16 mm Dia 225mm Long With Washer etc.				
	Labour	nos	0.50	408.00	204.00
	Carpenter Grl	nos	0.25	304.00	76.00
	Unskilled Masdoor				112.31
	Overheads @ 12%				103.01
	Contractor's profit @ 10% on (a+b+c+d)				115.31
	Rate Per cum = (a+b+c+d)/10	Per M			165.93
28	5.7.7				
	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making above 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)				
	Labour	nos	0.25	408.00	102.00
	Carpenter Grl	nos	2.50	304.00	760.00
	Unskilled Masdoor				103.44
	Overheads @ 12%				96.54
	Contractor's profit @ 10% on (a+b+c+d)				34.43
	Rate Per cum = (a+b+c+d)/30.5	Per M			24.63
29	5.7.8				
	Labour for fitting and driving 62 mm to 75 mm dia bamboo piers in position with 20 nos G.L wire or 75 mm to 100 mm long nails alternatively including cost of G.L 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)				
	Materials	kg	0.25	61.74	15.44
	75 mm To 100 mm Long Nails				
	Labour	nos	1.00	408.00	408.00
	Carpenter Grl	nos	1.00	304.00	304.00
	Unskilled Masdoor				87.25
	Overheads @ 12%				81.41
	Contractor's profit @ 10% on (a+b+c+d)				96.31
	Rate Per cum = (a+b+c+d)/9.30	Per M			106.31
30	5.7.9				
	Labour for fitting and driving 62 mm to 75 mm dia bamboo piers in position at every vertical pile with 150 mm long nails or 18 nos G.L wire including cost of G.L wire or nails complete job as per specification and direction of E/L.				
	Unit = Per M Taking Out put = 30.50 M				
	Materials	kg	0.25	61.74	15.44
	75mm To 100 mm Long Nails				
	Labour	nos	0.125	408.00	51.00
	Carpenter Grl	nos	0.250	304.00	76.00
	Unskilled Masdoor				17.0
	Overheads @ 12%				15.9
	Contractor's profit @ 10% on (a+b+c+d)				8.1
	Rate Per cum = (a+b+c+d)/30.5	Per M			7.77

Analysis of Rates (FORMAT B8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
35	4.10				
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 rearward at OMC, and compacting with motor wheel roller to achieve the desired density, sample as per Technical Specification Clause 401. Unit = cum Taking output = 100 cum				
	Labour	day	0.48	321.00	154.08
	Masdoor (Skilled)	day	2.00	385.00	770.00
	Masdoor (Unskilled)	day	10.00	304.00	3040.00
	Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	12.00	173.20	2078.40
	Three wheel 80-100 kg static roller @ 12 cum per hour	hour	30.00	403.00	12090.00
	Tractor with Rearward 75 cum per hour	hour	12.00	629.00	7548.00
	Water tanker 6 hl capacity	hour	5.00	907.00	4535.00
	Material				
	Well Graded Granular sub-base material as per Table 400.1	cum	134.40	595.36	80016.38
	26.5 mm to 4.5 mm @ 15 per cent	cum	96.00	506.92	48664.32
	9.5 mm to 2.36 mm @ 25 per cent	cum	153.60	141.05	21708.16
	2.36 mm below @ 40 per cent. Local Sand	M	38.00	40.00	1520.00
	Water				
	Overheads @ 12%				2384.12
	Contractor's profit @ 10% on (a+b+c+d)				2225.45
	Cost of GSB for 380 cum				24479.18
	A) Cost of GSB without carriage per cum	cum			855.99
	CARRIAGE				
	Carriage for GSB material	cum	0.168	1670.65	1281.06
	Carriage for material below 2.36 mm (Local Sand)	cum	0.312	180.01	94.73
	Rate per cum with carriage				2193.75
					2793.75

28/10/21

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-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 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