ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT

NH 103 TO RAMPUR

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Sarairanjan	
TOTAL LENGTH OF ROAD	:-	10.00 0.0/0	KM
TOTAL COST OF PROJECT	:-	2.29	Lac

Site Photograph

ıme of Road:- NH 103 to Rampur
ock:- Sarairanjan

Distt- Samastipur

22/11/21
AE.

22/11/2021

SUMMARY OF COST ESTIMAT FOR THE PROJECT

: OF ROAD :- Repair of Road NH 103 to Rampur

ICT SAMASTIPUR

: Sarairanjan

S.NO	DESCRIPTION	AMOUNT LAKH
1	BRICK BAT	202715.000
	SUB TOTAL:-	202715.000
	12% GST on Total Amount:-	24325.800
	SUB TOTAL:-	2027.150
	Total Cost (including GST and Labour Cess	229068.000

22/11/2021 22/11/21 02.12.2021

unior Engineer — Assistant Engineer — Executive Engineer

W) Section, Sarairanjan — RWD (W)Sub Division, Sarairanjan — RWD, Works Division, Dalsinghsarai

Tech. Sanc Approved for Rs 2,29068.00 Say Two Lakh Twenty nine thousand Sixty Eight Only including 0.46C 18% CP 10% Only

10.12.2021

10/12/21 T.A

कार्यपालक अभियंता ग्रामीण कार्य विभाग कार्य प्रमंडल, दलसिंहसराय

AO 10.12.21

FDR
YEAR (2021-2022)
GNERAL ABSTRACT OF COST

K :- Sarairanjan DISTRICT :- SAMASTIPUR

F ROAD :- Repair of Road NH 103 to Rampur

	ITEM OF WORK						AMOUNT	
TOTAL COST OF CONSTRUCTION						:-	Rs.	229068
					SUB TOTAL	:-	Rs.	229068

24/11/2021

Junior Engineer

D (W) Section,Sarairanjan

22/11/21

Assistant Engineer
RWD (W)Sub Division
,Sarairanjan

02/12/21

Executive Engineer
RWD, Works Division,
Dalsinghsarai

SL.NO	SDB SL.NO	MORD Ref. No	Description	Unit					Quantity	Rate	Amount
1			**BrickBats**								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
				cum	10.00	~~9.00~~	4m+5m	2.25+2.50	106.88		
							2	2	106.88	1896.75	202715.00
										SUB TOTAL=	202715.00
										TOTAL COST OF WORK IN RS	202715.00

Junior Engineer
RWD (W) Section,Sarairanjan

22/11/21
Assistant Engineer
RWD (W)Sub Division, Sarairanjan

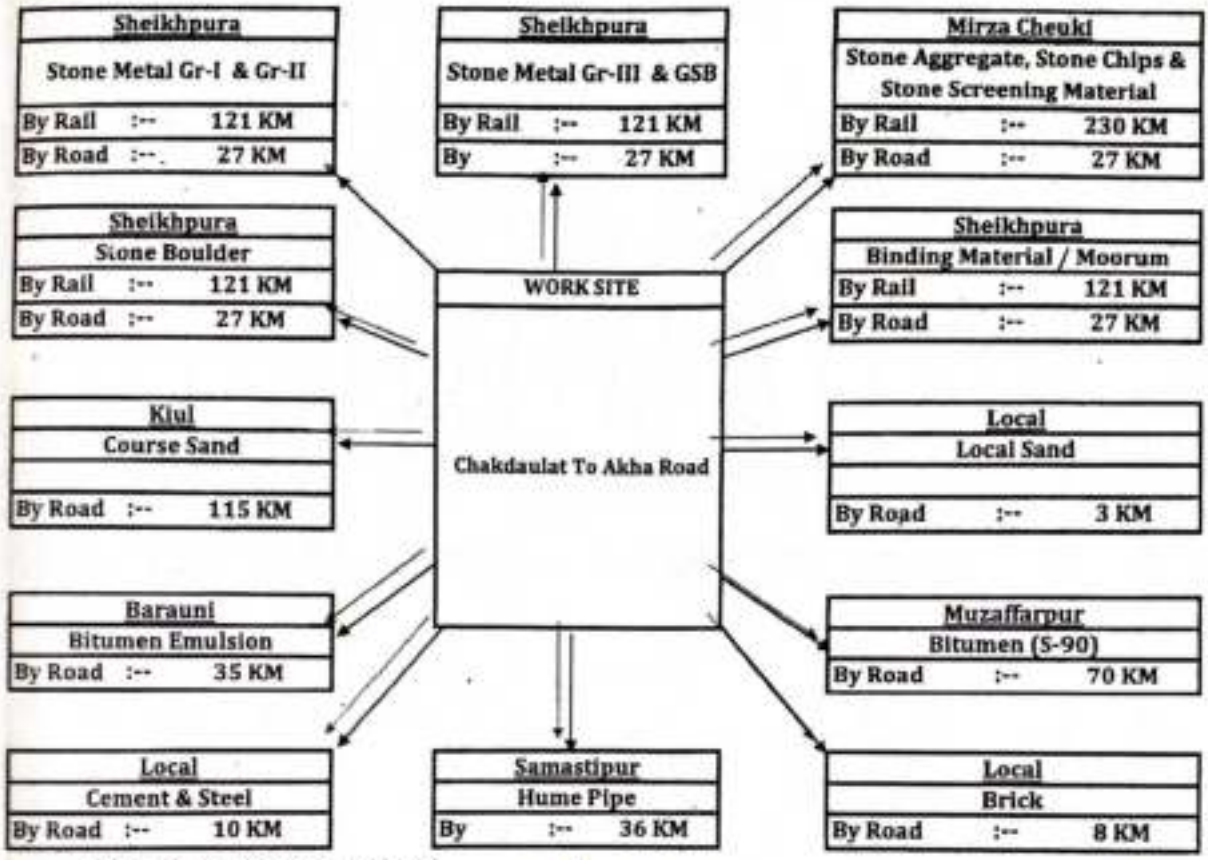
02.12.21
Executive Engineer
RWD, Works Division, Dalsinghsarai

Figure -3 :---

Quarry Map

Name of Road :-- NH 103 to Rampur
Block :-- Sarairanjan
District :-- Samastipur

Length of the Road:- KM



* Subjected to Verification of Lead

24/11/2021

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				Pucka / Surface	Katcha	Unloading Cost	Cost by Rail Head	Total ₹	Minimum
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 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 NOR 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

FORM F8

JE
RWD

22/11/21
AE
PWD

02.12.21
EE
RWD

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead in Km												
Pucka / Surface					Katcha							
8.00/4.80	x 10.10	x 4.00 Km	= Rs 67.33	+	8.00/4.80	x 24.30	x 0.00 Km	= Rs 0.00	+	Rs 105.12	=	Rs 172.45
UnSurface					8.00/4.80	x 12.10	x 1.00 Km				=	Rs 20.17
Loading & Unloading Cost by manual					=					= Rs 210.19	=	Rs 210.19
										Total	=	Rs 402.81

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 Session charge 15% of Railway freight charge	=	For 1 MT			= 15%	=	Rs 34.70
Railway Developent 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		2	x Rs 40.00	=	Rs 80.00
GST 0 % *(4% included in Overhead Charges) =	Rs 357.57	x 0%				=	Rs 0.00
Total	=	For 1 MT				=	Rs 357.57

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

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Binding Material /Moorum

ry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead in Km												
Pucka / Surface					Katcha							
– x	10.10 x	4.00 Km	= Rs 53.87	+	8.00/6.00	x 24.30	x 0.00 Km	= Rs 0.00	+	Rs 66.31	=	Rs 120.18
UnSurface					8.00/6.00	x 12.10	x 1.00 Km				=	Rs 16.13
Loading & Unloading Cost by manual					=					= Rs 113.67	=	Rs 113.67
										Total	=	Rs 249.98

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
Busy Seasion charge 15% of Railway freight charge	=	For 1 MT				=	15%	= Rs 34
Railway Development Charge to 5% of Railway freight Charge		For 1 MT				=	5%	= Rs 11
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT		2	x	Rs 40.00	=	Rs 80
GST 0 % "(4% included in Overhead Charges) =	Rs 357.57	x	0%				=	Rs 0
Total	=	For 1 MT					=	Rs 357.5
		Add 12% Overhead Charge	=	12%	= Rs 82.9			
		Add 10% Contractor Profit	=	10%	= Rs 77.4			

Analysis of Rates (FORMAT F8)

SOR No.	MORTH Para No.	DESCRIPTION	Unit	Quantity	Rate	Amount ₹
		HAULAGE BY TIPPER				
1.10	(i)	**Haulage excluding Loading & Unloading**				
		Haulage of materials by tipper excluding cost of loading, unloading and stacking.				
		Unit = 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
.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
)	(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				
	(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	Unit			
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	Unit			
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	Unit			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				
			iv) Waiting time, unforeseen contingencies etc		2 Min		
			Total		4 Min		
			a) Machinery		20 Min		
			Tipper 5.5 tonnes capacity				
			Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.33	1183.00	
			Overheads @ 12%	hour	0.33	1403.00	

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
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
	(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
	(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
	(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)

				day	0.25	304.00	76.0
		b)	Mazdoor (Unskilled) **Machinery**	hour	0.25	934.30	231.5
			Truck				37.5
		c)	Overheads @ 12%				35.0
		d)	Contractor's profit @ 10% on (a+b+c)				385.3
			Cost for 5.5 cum = a+b+c+d				70.0
			Rate per cum = (a+b+c+d) /5.5				
			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	1.6
			Mazdoor (Unskilled)	day	0.13	304.00	38.0
		b)	**Machinery**				
			Truck	hour	0.17	934.30	155.0
		c)	Overheads @ 12%				23.3
		d)	Contractor's profit @ 10% on (a+b+c)				21.8
			Cost for 5.5 cum = a+b+c+d				239.8
			Rate per cum = (a+b+c+d) /5.5				43.6
			Total Cost	Cum			43.6
			Total Loading & Unloading of Sand & Moorum	Cum	= 70.06 + 43.61 =		
14	1.3		**Loading, Unloading and Stacking of Bricks by Manual Means**				
		(I)	Loading of Bricks by manual means including a lead upto 30 m				
			Unit = 1000 Nos.				
			Taking output = 2000 Nos.				
		a)	**Labour**				
			Mate				
			Mazdoor (Unskilled)	day	0.01	321.00	3.2
		b)	**Machinery**	day	0.25	304.00	76.0
			Truck				
		c)	Overheads @ 12%	hour	0.33	934.30	308.3
		d)	Contractor's profit @ 10% on (a+b+c)				46.9
			Cost for 2000 Nos. = a+b+c+d				43.4
			Rate for 1000 bricks = (a+b+c+d)/2				477.4
			Total Cost	1000			238.7
15		(II)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m				238.7
			Unit = 1000 Nos.				
			Taking output = 2000 Nos.				
		a)	**Labour**				
			Mate				
			Mazdoor (Unskilled)	day	0.01	321.00	3
		b)	**Machinery**	day	0.25	304.00	76
			Truck				
		c)	Overheads @ 12%	hour	0.33	934.30	308
		d)	Contractor's profit @ 10% on (a+b+c)				46
			Cost for 2000 Nos. = a+b+c+d				43
			Rate for 1000 bricks = (a+b+c+d)/2				477
			Total Cost	1000			238
			Total Loading & Unloading of Brick Per 1000				238
		(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				
			Mazdoor (Unskilled)	day	0.06	321.00	1
				day	1.50	304.00	45

		b)	**Machinery**				
			Truck	hour	1.00	934.30	934.30
		c)	Overheads @ 12%				169.15
		d)	Contractor's profit @ 10% on (a+b+c)				157.87
			Cost for 10 t = a+b+c+d				1736.50
			Rate per tonnes = (a+b+c+d)/10				173.66
1.7		(ii)	Unloading 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	hour	1.00	934.30	934.30
		c)	Overheads @ 12%				169.15
		d)	Contractor's profit @ 10% on (a+b+c)				157.87
			Cost for 10 t = a+b+c+d				1736.58
			Rate per tonne = (a+b+c+d)/10				173.66
			Total Loading & Unloading of Cement				
1.5			**Loading and Unloading of Structural Steel and Steel Bars by manual means**				
		(i)	Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m				
			Unit = t				
			Taking output = 10 t				
		a)	**Labour**				
			Mate	day	0.07	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 tonnes = (a+b+c+d)/10				185.29
		(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				
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.			Description	Unit	Quantity	Rate	Amount
			Rate per tonnes = (a+b+c+d)/10				
21		(II)	**Unloading of Bitumen Drums by Manual Means including a lead upto 30 m**				
			Unit = t				
			Taking output = 10 t				
		a)	**Labour**				
			Mate	day	0.05	321.00	
			Mazdoor (Unskilled)	day	1.20	304.00	
		b)	**Machinery**				
			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				
			Rate per t = (a+b+c+d)/10				
		Note :-	The rate is inclusive of the self weight of drum				
			Total Cost				
			Total Loading & Unloading of Bitumen Drums				
22	1.9		**Loading and Unloading of Hume Pipes**				
		(I)	Loading of RCC Hume pipes by mechanical means including a lead upto 30 m				
		A.	**1000 / 1200 mm dia Hume pipe**				
			Unit = per pipe				
			Taking output = 9 pipes				
		a)	**Labour**				
			Mate	day	0.02	321.00	
			Mazdoor (Unskilled)	day	0.50	304.00	
		b)	**Machinery**				
			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				
			Total Cost per pipe				
23		C.	**600/450 mm dia Hume pipe**				
			Unit = per pipe				
			Taking output = 21 pipe				
		a)	**Labour**				
			Mate	day	0.02	321.00	
			Mazdoor (Unskilled)	day	0.50	304.00	
		b)	**Machinery**				
			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				
			Total Cost per pipe				
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				
		a)	**Labour**				
			Mate				
			Mazdoor (Unskilled)	day	0.02	321.00	
		b)	**Machinery**	day	0.50	304.00	
			Truck				
			Crane	hour	0.20	934.30	
		c)	Overheads @ 12%	hour	0.20	909.00	
		d)	Contractor's profit @ 10% on (a+b+c)				
			Cost for 9 pipes = a+b+c+d				
			Rate per pipe = (a+b+c+d)/9				
			Total Cost per pipe				
			Total Loading & Unloading of RCC Hume Pipes				

Analysis of Rates (FORMAT F8)

[illegible]		Description	Unit	Quantity	Rate	Amount (Rs)
	C.	**600/450 mm dia Hume pipe**				
		Unit = per pipe				
		Taking output = 21 pipes				
	a)	**Labour**				
		Mate				
		Mazdoor (Unskilled)				
	b)	**Machinery**				
		Truck	day	0.02	321.00	6.42
		Crane	day	0.50	304.00	152.00
	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
		Total Loading & Unloading of [illegible] Hume Pipe per Pipe [illegible]	[illegible]			[illegible]
		Total Loading & Unloading of [illegible] per Pipe	[illegible]	[illegible]		[illegible]
		[illegible]	[illegible]	[illegible]		[illegible]
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	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
		[illegible] A [illegible] Total 6 Nos. of Pillars required [illegible]	NO	6.00	[illegible]	[illegible]
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	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
		[illegible] B [illegible] Total 2 Nos. of reference pillars required [illegible] Km	NO	2.00	[illegible]	[illegible]
		[illegible] of setting out	Km	A+B		[illegible]
		[illegible] Total Cost	Km			[illegible]

OLD SOR		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.				
8.1.12 (iii)		**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
		CARRIAGE	nos	0.300	776.64	233.10
		Carriage for Brick (1 cum Bats = 300 nos Bricks)				1868.70
		Rate per cum with carriage [illegible]	CUM			[illegible]

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 Gril	nos	0.50	408.00	204.00	
			Unskilled Mazdoor	nos	0.25	304.00	76.00	
		c)	Overheads @ 12%				112.51	
		d)	Contractor's profit @ 10% on (a+b+c+d)				105.01	
		e)					115.51	
			Rate Per cum=(a+b+c+d)/10	Per M				
			Total Cost	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					
			Carpenter Gril	nos	0.25	408.00	102.00	
			Unskilled Mazdoor	nos	2.50	304.00	760.00	
		c)	Overheads @ 12%				103.44	
		d)	Contractor's profit @ 10% on (a+b+c+d)				96.54	
		e)					34.82	
			Rate Per cum=(a+b+c+d)/30.5	Per M				
			Total Cost	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%				87.2	
		d)	Contractor's profit @ 10% on (a+b+c+d)				81.4	
		e)					96.3	
			Rate Per cum=(a+b+c+d)/9.30	Per M				
			Total Cost	Per M				
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 Gril	nos	0.125	408.00	51.0	
			Unskilled Mazdoor	nos	0.250	304.00	76.0	
		c)	Overheads @ 12%				17.0	
		d)	Contractor's profit @ 10% on (a+b+c+d)				15.9	
		e)					5.1	
			Rate Per cum=(a+b+c+d)/30.5	Per M				
			Total Cost	Per M				

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	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	673.20	6078.40
		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				
		26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	595.36	80016.38
		9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	506.92	48664.32
		2.36 mm below @ 40 per cent - Local Sand	cum	153.60	141.85	21788.16
		Water	kl	30.00	40.00	1200.00
	d)	Overheads @ 12%				23842.12
	e)	Contractor's profit @ 10% on (a+b+c+d)				22252.65
		Cost of GSB for 300 cum				**244779.11**
		A) Cost of GSB without carriage per cum	cum			**815.93**
	f)	***CARRIAGE***				
		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		2193.71

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 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 –** 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