



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

FDR

STATE :- BIHAR
DISTRICT :- Samastipur
BLOCK :- Mohiudinagar

NAME OF ROAD :- Detailed Estimate For Repair of Flood
Damaged in Anand golwa Ro Rajaisi

TOTAL COST OF CONSTRUCTION :- Rs. 3.644 Lacs

TOTAL COST OF PROJECT :- Rs. 3.644 Lacs

3.62814

Cross check amount - Rs 3,62,843.00

SUBMITTED BY:

EXECUTIVE ENGINEER

RWD (W) DIVISION, PATORI

SAMASTIPUR

FDR

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Mohiudinagar

District:--Samastipur

Name of Road:--

Detailed Estimate For Repair of Flood Damaged in Anand golwa
Ro Rajaisi

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	3.644 Lacs
	Sub Total= (A)	3.644 Lacs
	TOTAL cost of project	3.644 Lacs

3,62,800/-

Pragmo
15.10.20
Junior Engineer

RWD (w)Section,
Mohiudinagar

Shyam
15/10/20
Asstt. Engineer

RWD (w)Sub Division, Mohiudinagar

P. A. 15.10.20
Executive Engineer

RWD (w) Division, Patori

*Techni' Comy approved for Rs 3,62,800/- say Three-
Lakh, sixty two thousand eight hundred only.*

24/11
वसुधैव कुटुम्बकम्
आचार्य दत्त विद्या
आचार्य दत्त, वसुधैव

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Repair of Flood Damaged in Anand golwa Ro
Rajaisi
Samastipur
Mohiudinagar

DISTRICT
BLOCK

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BAT	2.432
2	EARTHWORK	0.779
	SUB TOTAL OF PAVEMENT COST IN LACS =	3.211
	Sub Total :-	3.211
	12% GST on Total Amount :-	0.385
	1% Lab Cess :-	0.032
	Total Construction Cost (including GST and Labour Cess) (A) :-	3.644

P. D. Sharma
15.10.20
Junior Engineer

RWD (w)Section , Mohiudinagar

Shyam
15/10/20
Assistant Engineer

RWD (w)Sub Division , Mohiudinagar

P. D. Sharma
15.10.20
Executive Engineer
RWD (w)
Division, Patori

Cost Estimate for Road Work

Sl. No.	SDB SL. NO	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
SUB HEAD : Brick Bat Filling											
Brick Bats											
Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L											
1			Damaged Road Strech	cum	1.00	7.5	5.167	3.000	116.25		
			Damaged Road Strech	cum	1.00	14.0	1.250	0.300	5.25		
			Damaged Road Strech	cum	1.00	2.0	1.100	0.600	1.32		
			Damaged Road Strech	cum	1.00	5.0	0.900	0.450	2.03		
			Damaged Road Strech	cum	1.00	15.0	1.250	0.900	16.88		
			Damaged Road Strech	cum	1.00	8.0	0.850	0.450	3.06		
									144.78	1,680.02	2,43,233.30
2			Earthwork	cum	1.00	400.0	1.250	0.900	450.00	173.06	77,877.00
									450.00		
SUB TOTAL OF CRUST =											3,21,110.30
TOTAL COST OF PAVEMENT IN RS. =											3,21,110.30


 15.10.20
 Junior Engineer
 RWD (w) Section, Mohiudinagar


 15/10/20
 Assistant Engineer
 RWD (w) Sub Division, Mohiudinagar


 15.10.20
 Executive Engineer
 RWD (w) Division, Patori

[illegible]

Q. 15.51

Analysis for Carriage by Road & Rail

Name of Road:-
District:-
Detailed Estimate For Repair of Flood Damaged in Anand golwa Ro Rajaisi
Block :- Mohiudinagar
Samastipur

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha				
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.60 \times 62.00 \text{ Km} = \text{Rs } 821.26$	$\frac{8.00}{4.59} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64	952.23	Rs. 1857.13
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 62.00 \text{ Km} = \text{Rs } 755.43$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64	896.90	Rs. 1735.98
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 62.00 \text{ Km} = \text{Rs } 755.43$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64	896.90	Rs. 1735.98
4	Stone Aggregate / Chips	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 7.60 \times 62.00 \text{ Km} = \text{Rs } 755.43$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64	1282.63	Rs. 2121.71
5	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.60 \times 62.00 \text{ Km} = \text{Rs } 785.33$	$\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64	922.04	Rs. 1791.01
6	Course Sand	Cum	Kuil	$\frac{8.00}{4.99} \times 6.83 \times 125.00 \text{ Km} = \text{Rs } 1368.74$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$		96.53		Rs. 1465.27
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 6.83 \times 2.00 \text{ Km} = \text{Rs } 21.90$	$\frac{8.00}{4.99} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 26.52$		96.53		Rs. 144.95
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$		406.10		Rs. 663.50

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	7.60	6.83
Unsurface Gravel Road	9.20	8.22
Kachha Road	18.50	16.54

15-10-20
A.E

15/10/20
A.E

Analysis for Carriage by Road

Name of Road:- Detailed Estimate For Repair of Flood Damaged in Anand golwa Ro Rajaisi

District:- Samastipur Block :- Mohiudinagar

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha				
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 2159.13$	$\frac{8.00}{4.59} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2242.77
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 1986.05$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2069.69
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 1986.05$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2069.69
4	Stone Aggregate / Chips	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 7.60 \times 208.00 \text{ Km} = \text{Rs } 2534.35$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2617.99
5	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 2064.67$	$\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2148.31
6	Course Sand	Cum	Kuil	$\frac{8.00}{4.99} \times 6.83 \times 125.00 \text{ Km} = \text{Rs } 1368.74$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$		96.53		Rs. 1465.27
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 6.83 \times 2.00 \text{ Km} = \text{Rs } 21.90$	$\frac{8.00}{4.99} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 26.52$		96.53		Rs. 144.95
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$		406.10		Rs. 663.50

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by	
	Tinner	Truck
For Surface Road	7.60	6.83
Unsurface Gravel Road	9.20	8.22
Kachha Road	18.50	16.54

15.10.20
JE

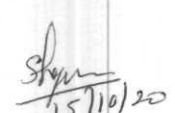
15/10/20
A.E.

15/10/20

FDR**YEAR (2020 - 2021)****Analysis for Carriage by Road & Rail****Name of Road:--****Detailed Estimate For Repair of Flood Damaged in Anand golwa Ro Rajaisi****Block :-****Mohiudinagar****District:-****Samastipur****0.190 KM.**

Sl No	Item	Unit	Carriage Cost By Road (Per cum)	Carriage Cost By Road & Rail (Per cum)	Minimum Carriage Cost (Addopted in DPR)
1	Stone Metal Gr-I & Gr-II	Cum	2242.77	1857.13	1857.13
2	Stone Metal Gr-III / GSB	Cum	2069.69	1735.98	1735.98
3	Stone Aggregate / Chips (seikhpura)	Cum	2069.69	1735.98	1735.98
4	Stone Aggregate / Chips	Cum	2617.99	2121.71	2121.71
5	Stone Boulder	Cum	2148.31	1791.01	1791.01
6	Course Sand	Cum	1465.27	1465.27	1465.27
7	Local Sand	Cum	144.95	144.95	144.95
8	Brick	1000 Nos	663.50	663.50	663.50
9	Cement	MT	617.16	617.16	617.16
10	Steel	MT	617.16	617.16	617.16
11	Bitumen Emulsion (Ulberia)	MT	978.35	978.35	978.35
12	Bitumine (Barauni)	MT	848.58	848.58	848.58
13	Hume Pipe (1000 mm)	Pipe	353.75	353.75	353.75


15.10.20
Junior Engineer
RWD (w) Division, Patori


15/10/20
Asstt. Engineer
RWD (w) Division, Patori


15.10.20
Executive Engineer
RWD (w) Division, Patori

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

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 7.60 x 2.00 Km	= Rs 26.49	+	$\frac{8.00}{4.59}$	x 18.50 x 0.00 Km	= Rs 0.00	+	Rs 83.64 =
								Rs 110.13
	UnSurface	$\frac{8.00}{4.59}$	x 9.20	x 1.00 Km				Rs 16.03
Total "A"								Rs 126.16

Sheikhpura Railway Yard to Karpoorigram Railway Yard = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wagon = For 1 cum = Rs 118.86 = Rs 118.86

Total = For 1 cum "B" = Rs 118.86

iii) Railway freight charge from Sheikhpura Railway = For 1 MT 122.00 Km = Rs 231.30 = Rs 231.30

Busy Season charge 12% of Railway freight charge = For 1 MT = 12% = Rs 27.76

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 2 x Rs 40.00 = Rs 80.00

Total = For 1 MT "C" = Rs 350.63
For 1 cum = Rs 611.11

Add 6% Overhead Charge = 6.0% = Rs 36.67

Add 10% Contractor Profit = 10% = Rs 0.00

Total Railway Freight for 1 cum "C" = Rs 647.78

Cost for Stacking the Materials from Unloading dump upto lead 30 m.

Total "D" = For 1 cum = Rs 59.43 = Rs 59.43

Carriage Cost from Quarry to Karpoorigram Railway Yard = For 1 Cum A+B+C+D = Rs 952.23

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Metal Gr-III & GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface		Carriage Cost & Lead in Km				Katcha				Loading & Unloading		Total
$\frac{8.00}{4.99}$	x 7.60 x 2.00 Km =	Rs 24.37	+	$\frac{8.00}{4.99}$	x 18.50 x 0.00 Km =	Rs 0.00	+	Rs 83.64	=		Rs 108.01	
	UnSurface			$\frac{8.00}{4.99}$	x 9.20 x 1.00 Km				=		Rs 14.75	
										Total "A"	=	Rs 122.76

Sheikhpura Railway Yard to Karpoorigram Railway Yard = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86	
Total	=	For 1 cum		"B"	=	Rs 118.86	
iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT	122.00 Km	=	Rs 231.30	=	Rs 231.30
Busy Season charge 12% of railway freight charge	=	For 1 MT		=	12%	=	Rs 27.76
Railway Development Charge to 5% of Railway Fright 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
Total	=	For 1 MT				=	Rs 350.63
		For 1 CUM			"C"	=	Rs 562.13
		Add 6% Overhead Charge		=	6.0%	=	Rs 33.73
		Add 10% Contractor Profit		=	10%	=	Rs 0.00
		Total Railway Freight for 1 cum			"C"		Rs 595.85
Cost for Stacking the Materials from Unloding dump upto lead 30 m.							
Total "D"	=	For 1 cum		=	Rs 59.43	=	Rs 59.43

Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum	A+B+C+D	=	Rs 896.90
--	---	-----------	---------	---	-----------

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Aggregate / Chips

Quarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface		Carriage Cost & Lead in Km		Katcha		Loading & Unloading		Total
$\frac{8.00}{4.99}$	x 7.60	x 2.00 Km	= Rs 24.37	+ $\frac{8.00}{4.99}$	x 18.50	x 0.00 Km	= Rs 0.00	+ Rs 83.64 = Rs 108.01
UnSurface		$\frac{8.00}{4.99}$	x 9.20	x 1.00 Km				= Rs 14.75
Total "A"								= Rs 122.76

Sheikhpura Railway Yard to Karpoorigram

Railway Yard = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86
Total	=	For 1 Cum		"B"	=	Rs 118.86
iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT	122.00 Km	=	Rs 231.30	= Rs 231.30
Busy Season charge 12% of Railway freight charge	=	For 1 MT		=	12%	= Rs 27.76
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	2	x	Rs 40.00	= Rs 80.00
Total	=	For 1 MT				= Rs 350.63
		For 1 CUM			"C"	= Rs 562.13
		Add 6% Overhead Charge			6%	Rs 33.73
		Add 10% Contractor Profit		=	10%	= Rs 0.00
		Total Railway Freight for 1 cum			"C"	= Rs 595.85
Cost for Stacking the Materials from Unloading dump upto lead 30 m.						
Total "D"	=	For 1 CUM		=	Rs 59.43	= Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum		A+B+C+D	=	Rs 896.90

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

		Carriage Cost & Lead in Km		Katcha		Loading & Unloading		Total
Pucka / Surface								
$\frac{8.00}{4.80} \times 7.60 \times 2.00 \text{ Km}$		= Rs 25.33	+	$\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km}$		= Rs 0.00	+	Rs 83.64 =
								Rs 108.98
	UnSurface	$\frac{8.00}{4.80} \times 9.20 \times 1.00 \text{ Km}$						Rs 15.33
Total "A"								Rs 124.31

Sheikhpura	Railway Yard to Karpoorigram	Railway Yard = 122.00 Km						
i) Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum	=	Rs 118.86	=			Rs 118.86
	Total	=	For 1 CUM		"B"	=		Rs 118.86
iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT	122.00 Km	=	Rs 231.30	=		Rs 231.30
Busy Season charge 12% of Railway freight charge	=	For 1 MT		=	12%	=		Rs 27.76
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	2	x	Rs 40.00	=		Rs 80.00
	Total	=	For 1 MT			=		Rs 350.63
			For 1 CUM		"C"	=		Rs 584.38
			Add 6% Overhead Charge	=	6.0%	=		Rs 35.06
			Add 10% Contractor Profit	=	10.0%	=		Rs 0.00
			Total Railway Freight for 1 cum		"C"	=		Rs 619.44
Cost for Stacking the Materials from Unloading dump upto lead 30 m.								
	Total "D"	=	For 1 CUM	=	Rs 59.43	=		Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum		=A+B+C+D	=			Rs 922.04

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
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 Empty return trip b) Overheads @ 6 % on (a) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b Rate per cum = (a+b) /100	hour hour	0.40 0.29	1043.00 1043.00	417.20 302.47 43.18 0.00 762.85 7.63
				Rate Per Km.	Cum		7.60
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 Empty return trip b) Overheads @ 6 % on (a) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b Rate per cum = (a+b) /100	hour hour	0.50 0.33	1043.00 1043.00	521.50 344.19 51.94 0.00 917.63 9.18
				Rate Per Km.	Cum		9.20
3	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 Empty return trip b) Overheads @ 6 % on (a) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) /100	hour hour	1.00 0.67	1043.00 1043.00	1043.00 698.81 104.51 0.00 1846.32 18.46
				Rate Per Km.	Cum		18.50

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
Haulage BY TRUCK							
4	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 Truck 10 t capacity Haulage with load	hour	0.40	934.30	373.72
			Empty return trip	hour	0.29	934.30	270.95
		b)	Overheads @ 6 % on (a)				38.68
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				683.35
			Rate per cum = (a+b+c) /100				6.83
			Rate Per Km.	Cum			6.83
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	467.15
			Empty return trip	hour	0.33	934.30	308.32
		b)	Overheads @ 6 % on (a)				46.53
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				822.00
			Rate per cum = (a+b+c) /100				8.22
			Rate Per Km.	Cum			8.22
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	hour	1.00	934.30	934.30
			Empty return trip	hour	0.67	934.30	625.98
		b)	Overheads @ 6 % on (a)				93.62
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				1653.90
			Rate per cum = (a+b+c) /100				16.54
			Rate Per Km.	Cum			16.54

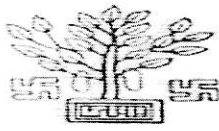
[illegible]

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
8	1.2	RCD	Loading and Unloading of Boulders by Manual Means Unit = cum Taking output = 5.5 cum a) Labour Mate Mazdoor for loading and unloading b) Machinery Tipper 5.5 tonne capacity c) Overheads @ 6 % on (a+b) (d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d)/5.5	day day hour	0.110 0.750 0.750	305.00 287.00 1043.00	33.55 215.25 782.25 61.86 0.00 1092.91 198.71 say 199.00
9	1.3	RCD	Loading and Unloading of Cement or Steel by Manual Means Unit = tonne Taking output = 10 tonnes a) Labour Mate Mazdoor for loading and unloading b) Machinery Truck 10 tonne capacity c) Overheads 6 % on (a+b) (d) Contractor's profit @ 10% on (a+b+c) Cost for 10 tonnes = a+b+c+d Rate per tonnes = (a+b+c+d)/10	day day hour	0.080 2.000 2.000	305.00 287.00 934.30	24.40 574.00 1868.60 148.02 0.00 2615.02 261.50 say 262.00
10	1.1	(i)	Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m Unit = cum Taking output = 5.5 cum a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads 6 % on (a+b) d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) /5.5	day day hour	0.02 0.50 0.50	305.00 287.00 934.30	6.10 143.50 467.15 37.01 0.00 653.76 118.86 Total Cost Cum 118.86
11		(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads 6 % on (a+b) d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) /5.5	day day hour	0.01 0.25 0.25	305.00 287.00 934.30	3.05 71.75 233.58 18.50 0.00 326.88 59.43 Total Cost Cum 59.43

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
12		(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		day	0.01	305.00	3.05
		Mate		day	0.25	287.00	71.75
		Mazdoor (Unskilled)					
		b) Machinery		hour	0.25	934.30	233.58
		Truck					18.50
		c) Overheads 6 % on (a+b)					0.00
		d) Contractor's profit @ 10% on (a+b+c)					326.88
		Cost for 5.5 cum = a+b+c+d					59.43
		Rate per cum = (a+b+c+d) / 5.5					
		Total Cost	Cum				59.43
		Total Loding & Unloading of Stone Aggregate	Cum			= 118.86 + 59.43 =	178.29
13		(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum				
		a) Labour		day	0.01	305.00	1.53
		Mate		day	0.13	287.00	35.88
		Mazdoor (Unskilled)					
		b) Machinery		hour	0.166	934.30	155.09
		Truck					11.55
		c) Overheads 6 % on (a+b)					0.00
		d) Contractor's profit @ 10% on (a+b+c)					204.04
		Cost for 5.5 cum = a+b+c+d					37.10
		Rate per cum = (a+b+c+d) / 5.5					
		Total Cost	Cum				37.10
		Total Loding & Unloading of Sand / Moorum	Cum			= 59.43 + 37.1 =	96.53
14	1.3	(i)	Loading, Unloading and Stacking of Bricks by Manual Means Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a) Labour		day	0.01	305.00	3.05
		Mate		day	0.25	287.00	71.75
		Mazdoor (Unskilled)					
		b) Machinery		hour	0.33	934.30	308.32
		Truck					22.99
		c) Overheads 6 % on (a+b)					0.00
		d) Contractor's profit @ 10% on (a+b+c)					406.11
		Cost for 2000 Nos. = a+b+c+d					203.05
		Rate for 1000 bricks = (a+b+c+d)/2					
		Total Cost	no.				203.05
15		(ii)	Unloading and Stacking of Bricks by manual means including a Unit = 1000 Nos. Taking output = 2000 Nos.				
		a) Labour		day	0.01	305.00	3.05
		Mate		day	0.25	287.00	71.75
		Mazdoor (Unskilled)					
		b) Machinery		hour	0.33	934.30	308.32
		Truck					22.99
		c) Overheads 6 % on (a+b)					0.00
		d) Contractor's profit @ 10% on (a+b+c)					406.11
		Cost for 2000 Nos. = a+b+c+d					203.05
		Rate for 1000 bricks = (a+b+c+d)/2					
		Total Cost	no.				203.05
		Total Loding & Unloading of Brick Per 1000				= 203.05 + 203.05 =	406.10

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			PAVEMENT CRUST LAYERS				
15	4.1 (A)	401	Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement 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	305.00	146.40
			Mazdoor (Skilled)	day	2.00	364.00	728.00
			Mazdoor (Unskilled)	day	10.00	287.00	2870.00
		b)	Machinery				
			Motor Grader 110 HP @ 50 cum per hour	hour	6.00	2786.00	16716.00
			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	573.20	6878.40
			Water tanker 6 kl capacity	hour	5.00	184.00	920.00
		c)	Material				
			Well graded granular sub-base material as per Table 400.1				
			26.5 mm to 9.5 mm @ 35%	cum	134.00	657.85	88151.90
			9.5 mm to 2.36 mm @ 25%	cum	96.00	514.58	49399.68
			2.36 mm below @ 40% (Local sand)	cum	153.00	141.85	21703.05
			Water	kl	30.00	40.00	1200.00
							21280.34
		d)	Overheads @ 6 % on (a+b+c)				234083.77
			Cost of GSB for 300 cum				780.28
			A) Cost of GSB without carriage per cum	cum			
		f)	CARRIAGE				
			Carriage for GSB material	Cum	0.77	1735.98	1330.92
			Carriage for material below 2.36 mm (With Local Sand)	Cum	0.51	144.95	73.92
			Rate per cum with carriage				2185.12
			Total Cost	CUM			2,185.12

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
15	4.7 (3-A)	405	Water Bound Macadam with Stone Screening Type "B" Gr- III WBM Grading 3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.				
		(A)	By Mechanical Means Unit = cum Taking output = 360 cum				
		a)	Labour				
			Mate	day	0.68	305.00	207.40
			Mazdoor (Skilled)	day	2.00	364.00	728.00
			Mazdoor (Unskilled)	day	15.00	287.00	4305.00
		b)	Machinery				
			Tractor Mounted grader for grading @ 100 cum per hour	hour	14.40	549.10	7907.04
			Three wheel 80-100 kN static roller @ 8 cum per hour	hour	45.00	803.00	36135.00
			Water tanker 6 kl capacity	hour	24.00	184.00	4416.00
		c)	Material (Refer Tables 400.7, 8, 9 and 10)				
			Aggregate				
			Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm for compacted thickness of 75 mm	cum	435.60	511.44	222783.26
			Stone Screening				
			Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	cum	86.40	397.73	34363.87
			Water	kl	144	40.00	5760.00
		d)	Overheads @ 6 % on (a+b+c)				18996.33
			Cost for 360 cum = a+b+c+d+e				335601.91
			Rate per cum = (a+b+c+d+e)/360				932.23
		f)	CARRIAGE				
			Stone material Grading 3 53 mm to 22.4 mm	Cum	1.21	1735.98	2100.54
			Stone Screening	Cum	0.24	1735.98	416.64
			Rate per cum with carriage				3449.40
			Total Cost	cum			3,449.40



पत्रांक- 2302 रोसड़ा, दिनांक- 01/12/2020

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल-पटोरी।

विषय :- FDR के तहत कराए गए कार्यों का निरीक्षण प्रतिवेदन समर्पित करने के संबंध में।

महाशय,

उपर्युक्त विषयक पत्र के आलोक में कहना है कि FDR के तहत आपके प्रमंडल द्वारा कराए गए कार्यों का अधोहस्ताक्षरी द्वारा निरीक्षणोपरांत जांच प्रतिवेदन इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु समर्पित की जा रही है।

अनु०-यथोक्त।

विश्वासभाजन

कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमंडल-रोसड़ा

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पटौरी द्वारा कराए गए FDR पथों की जांच से संबंधित प्रतिवेदन

क्रम सं०	पथ का नाम	क्षेत्रीय भाग (मीटर में)	कराए गए कार्य	कराए गए निर्माण कार्य की राशि (रु० में)	GST@12%	L.Cess@1%	S. Fee@10%	Total	अभियुक्ति
1	2	3	4	5	6	7	8	9	10
1	Mastalipur Kasimachak hote huye to Khanua ghat	1200.00	Earth Work, Brick Bat	451100.00	54132.00	4511.00	0.00	509743.00	कार्य पूर्ण
2	Nawada to Yadav Tola	545.00	Earth Work, Brick Bat	359700.00	43164.00	3597.00	0.00	406461.00	कार्य पूर्ण
3	Sarai Madhopur To Imali Chwok	300.00	Brick Bat, GSB Gr-II, WBM Gr-III	509800.00	61176.00	5098.00	2900.00	578974.00	कार्य पूर्ण
4	L038-Approach Road to Dharampur	1500.00	Earth Work, Brick Bat	430400.00	51648.00	4304.00	0.00	486352.00	कार्य पूर्ण
5	Mahnar Mohaddin Nagar PWD Road Dashhara Sahendra Roy House To Sarhad siman via Ravidas Tola	400.00	Brick Bat, GSB, WBM Gr-III	705500.00	84660.00	7055.00	3200.00	800415.00	कार्य पूर्ण
6	PWD Road To Sarai Madhopur	1500.00	Brick Bat, GSB Gr-II, WBM Gr-III	540400.00	64848.00	5404.00	5800.00	616452.00	कार्य पूर्ण
7	Mohiuddin Nagar Bazar To Kursaha Nahar Tak	1500.00	Earth Work, Brick Bat, GSB	453600.00	54432.00	4536.00	6300.00	518868.00	कार्य पूर्ण
8	Mohanpur panchayat antargat Mohanpur Gate to Khanjiva tak	1200.00	Earth Work, Brick Bat, GSB Gr-II, WBM Gr-III	701100.00	84132.00	7011.00	9300.00	801543.00	कार्य पूर्ण
9	Bahadurchak to Nandni Dhala.	1200.00	Earth Work, Brick Bat, GSB Gr-II, WBM Gr-III	562500.00	67500.00	5625.00	12100.00	647725.00	कार्य पूर्ण
10	Bharat cinema Tetarpur to Rahepur	1200.00	Brick Bat, GSB Gr-II, WBM Gr-III	605100.00	72612.00	6051.00	5600.00	689363.00	कार्य पूर्ण
11	Maa Sita Yashwant High school Nandini to Siura PWD Path tak	300.00	Earth Work, Brick Bat	316800.00	38016.00	3168.00	0.00	357984.00	कार्य पूर्ण
12	Mohaddin Nagar ke tanda goan hote hue Panchayat Bhawan tak path nirmaan.	1800.00	Brick Bat, GSB Gr-II	1023900.00	122868.00	10239.00	3400.00	1160407.00	कार्य पूर्ण

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पटोरी द्वारा कराए गए FDR पथों की जांच से संबंधित प्रतिवेदन

क्रम सं०	पथ का नाम	क्षतिग्रस्त भाग (मीटर में)	कराए गए कार्य	कराए गए निर्माण कार्य की राशि (रु० में)	GST@12%	L.Cess@1%	S. Fee@10%	Total	अभियुक्ति
1	2	3	4	5	6	7	8	9	10
13	SH to Harail Part-2	1400.00	Brick Bat, GSB Gr-II, WBM Gr-III	522000.00	62640.00	5220.00	2400.00	592260.00	कार्य पूर्ण
14	Kursaha to Dharampur Durga Mandir Bandh sadak	800.00	Earth Work, Brick Bat, GSB Gr-II, WBM Gr-III	436000.00	52320.00	4360.00	4100.00	496780.00	कार्य पूर्ण
15	Shivaisingpur to Nawada	400.00	Earth Work, Brick Bat	192700.00	23124.00	1927.00	0.00	217751.00	कार्य पूर्ण
16	Sivaisingpur to Gidarganj	125.00	Brick Bat & E/w	165100.00	19812.00	1651.00	0.00	186563.00	कार्य पूर्ण
17	Shapur Undi PWD Road (East of Railway Gumati) to Chakarman	20.00	Brick Bat & E/w	81300.00	9756.00	813.00	400.00	92269.00	कार्य पूर्ण
18	Saraswati Chauk to MMGSY	200.00	Brick Bat, GSB Gr-II, WBM Gr-III	1138000	136560.00	11380.00	16600.00	1302540.00	कार्य पूर्ण
19	Kusho Chowk to Chakraj Ali	500.00	E/w, Brick Bat, GSB Gr-III	705500.00	84660.00	7055.00	8300.00	805515.00	कार्य पूर्ण
20	Approach Road - Bhasingpur	55.00	Brick Bat, GSB, WBM Gr-III	349600.00	41952.00	3496.00	0.00	395048.00	कार्य पूर्ण
21	Ananad Golba To Rajaisi	400.00	Earth Work, Brick Bat	321100.00	38532.00	3211.00	0.00	362843.00	कार्य पूर्ण
22	Thana Chauk Mihiuddin Nagar se kanhauli hote hue nawada hemanpur janewali PMGSY Road Tak	900.00	Earth Work, Brick Bat	521600.00	62592.00	5216.00	0.00	589408.00	कार्य पूर्ण
23	MRL01-Rahepur more Tetarpur via Maniyar tola Mohiuddimpur chowk	3400.00	Brick Bat, Earth Work, GSB Gr-II, WBM Gr-III	1389900.00	166788.00	13899.00	21100.00	1591687.00	कार्य पूर्ण

उपरोक्त सभी पथों की जांच की गई जो संतोषप्रद है।

आर.सी.
कार्यपालक अभियंता

ग्रामीण कार्य विभाग, कार्य प्रमंडल, रोसड़ा