



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 Thana Chowk M.Nagar Se
Kanhauli Hote Hue Nawad Hemanpur
Janewali PMGSY Road Tak

TOTAL COST OF CONSTRUCTION :- Rs. 5.926 Lacs

TOTAL COST OF PROJECT :- Rs. 5.926 Lacs

SUBMITTED BY:

EXECUTIVE ENGINEER

RWD (W) DIVISION, PATORI

SAMASTIPUR

Gross charging Amount - Rs. 5,89,480.00

5.894 Lacs

FDR

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Mohiudinagar

District:--Samastipur

Name of Road:--

**Detailed Estimate For Repair of Flood Damaged in Thana
Chowk M.Nagar Se Kanhauli Hote Hue Nawad Hemanpur**

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	5.926 Lacs
	Sub Total= (A)	5.926 Lacs
	TOTAL cost of project	5.926 Lacs

5.894 Lacs

15.10.20
Junior Engineer

RWD (w)Section ,
Mohiudinagar

15/10/20
Asstt. Engineer

RWD (w)Sub Division , Mohiudinagar

15.10.20
Executive Engineer

RWD (w) Division, Patori

*Technicaly Approved for Rs 5,89,400 = 00 Annulac
Eighty nine thousand four hundred only.*

02-02-2024
बसोवत वसिष्ठ
हासीय कार्य विभाग
वारं वंचल, समस्तीपुर

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Repair of Flood Damaged in Thana Chowk
M.Nagar Se Kanhauli Hote Hue Nawad Hemanpur Janewali PMGSY
DISTRICT Samastipur
BLOCK Mohiudinagar

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BRICK BAT	3.639
2	EARTHWORK	1.577
	SUB TOTAL OF PAVEMENT COST IN LACS =	5.216
	Sub Total ` :-	5.216
	12% GST on Total Amount :-	0.626
	1% Lab Cess :-	0.052
	Total Construction Cost (including GSt and Labour Cess) (A) :-	5.926

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15.10.20
Junior Engineer

RWD (w)Section , Mohiudinagar

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15.10.20
Assistant Engineer

RWD (w)Sub Division , Mohiudinagar

[Signature]
15.10.20
Executive Engineer
RWD (w)
Division, Patori

Cost Estimate for Road Work

FORMAT F6

Sl. No.	SDB SL. NO	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (In Rs.)
SUB HEAD : Brick Bat Filling											
1			Brick Bats								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
			Damaged Road Strech 1	cum	1.00	117.0	1.250	0.450	65.81		
			Damaged Road Strech 2	cum	1.00	80.0	1.150	0.300	27.60		
			Damaged Road Strech 3	cum	1.00	18.0	1.125	0.600	12.15		
			Damaged Road Strech 4	cum	1.00	44.0	1.350	0.450	26.73		
			Damaged Road Strech 5	cum	1.00	64.0	0.800	0.600	30.72		
			Damaged Road Strech 6	cum	1.00	32.0	1.200	0.150	5.76		
			Damaged Road Strech 7	cum	1.00	55.0	1.450	0.600	47.85		
									216.62	1,680.02	3,63,930.13
2			Earthwork								
				cum	1.00	900.0	1.125	0.900	911.25		
									911.25	173.06	1,57,700.93
SUB TOTAL OF CRUST =											5,21,631.06
TOTAL COST OF PAVEMENT IN RS. =											5,21,631.06

[Signature]
15.10.20
Junior Engineer
RWD (w)Section , Mohiudinagar

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

[Signature]
15.10.20
Executive Engineer
RWD (w) Division, Patori

Analysis for Carriage by Road & Rail

Name of Road:-
District:-

Detailed Estimate For Repair of Flood Damaged in Thana Chowk M.Nagar Se Kanhauli Hote Hue Nawad Hemanpur Janewali PMGSY Road
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	$\frac{8.00}{4.59} \times 7.60 \times 57.00 \text{ Km} = \text{Rs } 755.03$	$\frac{8.00}{4.59} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$	83.64	952.23	Rs. 1790.90
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 57.00 \text{ Km} = \text{Rs } 694.51$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$	83.64	896.90	Rs. 1675.06
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 57.00 \text{ Km} = \text{Rs } 694.51$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$	83.64	896.90	Rs. 1675.06
4	Stone Aggregate / Chips	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 7.60 \times 57.00 \text{ Km} = \text{Rs } 694.51$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$	83.64	1282.63	Rs. 2060.79
5	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.60 \times 57.00 \text{ Km} = \text{Rs } 722.00$	$\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$	83.64	922.04	Rs. 1727.68
6	Course Sand	Cum	Kuil	$\frac{8.00}{4.99} \times 6.83 \times 108.00 \text{ Km} = \text{Rs } 1182.59$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$	96.53		Rs. 1279.12
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

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

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

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Analysis for Carriage by Road

Name of Road:--

Detailed Estimate For Repair of Flood Damaged in Thana Chowk M.Nagar Se Kanhauli Hote Hue Nawad Hemanpur Janewali

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	Kull	$\frac{8.00}{4.99} \times 6.83 \times 108.00 \text{ Km} = \text{Rs } 1182.59$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$	96.53		Rs. 1279.12
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

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tinner	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

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YEAR (2020 - 2021)

Analysis for Carriage by Road & Rail

Name of Road:--

Detailed Estimate For Repair of Flood Damaged in Thana Chowk M.Nagar Se
Kanhauri Hote Hue Nawad Hemanpur Janewali PMGSY Road Tak

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 (Adopted in DPR)
1	Stone Metal Gr-I & Gr-II	Cum	2242.77	1790.90	1790.90
2	Stone Metal Gr-III / GSB	Cum	2069.69	1675.06	1675.06
3	Stone Aggregate / Chips (seikhpura)	Cum	2069.69	1675.06	1675.06
4	Stone Aggregate / Chips	Cum	2617.99	2060.79	2060.79
5	Stone Boulder	Cum	2148.31	1727.68	1727.68
6	Course Sand	Cum	1279.12	1279.12	1279.12
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

P. S. M. 15.10.20
Junior Engineer
RWD (w) Division, Patori

S. M. 15.10.20
Asstt. Engineer
RWD (w) Division, Patori

P. S. M. 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)

Pucka / Surface		Carriage Cost & Lead in Km				Katcha		Loading & Unloading		Total
$\frac{8.00}{4.59}$	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 For 1 cum "C" = Rs 350.63 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)

		Carriage Cost & Lead in Km						Loading & Unloading		Total	
Pukka / Surface						Katcha					
$\frac{8.00}{4.99}$	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 = 6.0% = 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 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 Aggregate / Chips

Quarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface		Carriage Cost & Lead in Km				Katcha		Loading & Unloading		Total
$\frac{8.00}{4.99} \times 7.60 \times 2.00 \text{ Km} = \text{Rs } 24.37$	+	$\frac{8.00}{4.99}$	x	18.50	x	0.00 Km	=	Rs 0.00	+	Rs 83.64 =
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
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Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum		A+B+C+D	=	Rs 896.90
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Analysis for Carriage Through Railway from Quarry Site to Work Site

Mirzachowki to Karpoorigram

Material - Stone Aggregate / Chips

Quarry Site to Mirzachowki 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

Mirzachowki Railway Yard to Karpoorigram

Railway Yard = 230.00 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 Mirzachowki Railway station to Karpoorigram Railway station	=	For 1 MT	230.00 Km	=	Rs 425.30	=	Rs 425.30
Busy Season charge 12% of Railway freight charge	=	For 1 MT		=	12%	=	Rs 51.04
Railway Development Charge to 5% of Railway Freight Charge		For 1 MT		=	5%	=	Rs 21.27
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 577.61
		For 1 CUM		=	"C"	=	Rs 926.02
		Add 6% Overhead Charge		=	6.0%	=	Rs 55.56
		Add 10% Contractor Profit		=	10%	=	Rs 0.00
Total Railway Freight for 1 cum				=	"C"	=	Rs 981.58

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

Total "D"	=	For 1 CUM	=	Rs 59.43	=	Rs 59.43
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Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum	=	A+B+C+D	=	Rs 1282.63
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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)

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

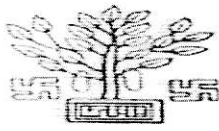
Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
Haulage BY TIPPER							
1	1.10	(i)	Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-I : 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) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) /100	hour hour	1.00 0.67	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 Empty return trip b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.40 0.29	934.30 934.30	373.72 270.95 38.68 0.00 683.35 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 Empty return trip b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.50 0.33	934.30 934.30	467.15 308.32 46.53 0.00 822.00 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 Empty return trip b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	1.00 0.67	934.30 934.30	934.30 625.98 93.62 0.00 1653.90 16.54
				Rate Per Km.	Cum		16.54

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
7	1.1	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 <i>Unit = cum</i> <i>Taking output = 5.5 cum</i> Time required for i) Positioning of tipper at loading point ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc Total a) Machinery Tipper 5.5 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour (b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c Rate per cum = (a+b+c) / 5.5 Unloading will be by tipping.	hour hour	 0.330 0.330	 1043.00 1403.00	 344.19 462.99 48.43 0.00 855.61 155.57
						say	156.00
8	1.2		Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means i Loading 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 Placing tipper at loading point, loading with front end loader excluding time for haulage and return trip. <i>Unit = cum</i> <i>Taking output = 5.5 cum</i> Time required for i Positioning of tipper at loading point ii Loading by front end loader 1 cum bucket capacity @ 45 cum per hour iii Waiting time, unforeseen contingencies, etc. Total a) Machinery Tipper 10 t capacity Front end-loader 1 cum bucket capacity @ 45 cum per hour b) Overheads @ 6.0 % c Contractors Profit @ 10.0 % Cost for 5.5 cum = a+b+C Rate per cum = (a+b)/5.5 Unloading of Earth, Sand, Lime, Moorum, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Manure, Crushed Slag, Flyash, Stone for Masonry Work by mechanical means. <i>Unit = cum</i> <i>Taking output = 5.5 cum</i> Placing tipper at unloading point excluding time for haulage and return trip Time required for i Positioning of tipper at loading point ii Manoeuvring, reversing, dumping and turning for return iii Waiting time, unforeseen contingencies, etc. Total a) Machinery Tipper 10 t capacity b) Overheads @ 6 % on (a) c Contractors Profit @ 10.0 % on (b) Cost for 5.5 cum = a+b Rate per cum = (a+b)/5.5 Total loading and unloading by mechanical means	Min Min Min Min hour hour Min Min Min Min hour hour Min Min Min Min Min Min hour	1.000 7.330 2.000 10.330 0.172 0.122 2.000 2.000 5.000 0.080	 1043.00 1403.00 1043.00	 179.40 171.17 21.03 - 371.60 67.56 83.44 5.01 0.00 88.45 16.08 83.64

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
			Unloading will be by tipping.			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 Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	Machinery Truck	hour	0.25	934.30	233.58
		c)	Overheads 6 % on (a+b)				18.50
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 5.5 cum = a+b+c+d				326.88
			Rate per cum = (a+b+c+d) / 5.5				59.43
			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 Mate	day	0.01	305.00	1.53
			Mazdoor (Unskilled)	day	0.13	287.00	35.88
		b)	Machinery Truck	hour	0.166	934.30	155.09
		c)	Overheads 6 % on (a+b)				11.55
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 5.5 cum = a+b+c+d				204.04
			Rate per cum = (a+b+c+d) / 5.5				37.10
			Total Cost	Cum			37.10
			Total Loding & Unloading of Sand / Moorum	Cum	= 59.43 + 37.1 =		96.53
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	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	Machinery Truck	hour	0.33	934.30	308.32
		c)	Overheads 6 % on (a+b)				22.99
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 2000 Nos. = a+b+c+d				406.11
			Rate for 1000 bricks = (a+b+c+d)/2				203.05
			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 Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	Machinery Truck	hour	0.33	934.30	308.32
		c)	Overheads 6 % on (a+b)				22.99
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 2000 Nos. = a+b+c+d				406.11
			Rate for 1000 bricks = (a+b+c+d)/2				203.05
			Total Cost	no.			203.05
			Total Loding & Unloading of Brick Per 1000		= 203.05 + 203.05 =		406.10



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