



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar



Name of the Road :-

T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Chanan	
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL (INCLUDING LABOUR CESS & GST)	:	4.04	Lac
TOTAL COST OF PROJECT	:	4.04	Lac

Submitted To:
Executive Engineer
RWD WORKS DIVISION
Lakhisarai



PREPARED BY:
Shambhavi Techno Solutions Pvt. Ltd.
E/82 , Rajesh Kumar Path
S.k. Puri , Boring Road , Patna - 1 (Bihar)

तकनीकी प्रतिवेदन

पथ का नाम :- T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)

वित्तीय वर्ष- 2023-24

शीर्ष- New Maintenance Policy 2018

प्रखण्ड- चानन

प्राक्कलित राशि :-4.04 लाख।

प्रस्तुत प्राक्कलन स्थल निरीक्षण पश्चात् विभागीय निदेशानुसार तैयार किया गया है। यह पथ T04 Bhalui Naya Tola Ramal Bigha वर्तमान में बिहार ग्रामीण पथ नई अनुरक्षण नीति 2018 अन्तर्गत निर्मित है तथा पंचवर्षीय अनुरक्षणाधीन है। बाढ़/अतिवृष्टि के कारण उक्त पथ का कटाव हो जाने से कारण आवागमन बंद हो गया। जिससे आम जनता को परेशानी होने लगी। आवागमन तत्काल चालू करने हेतु Temporary Restoration का कार्य निदेशानुसार कराया गया। प्राक्कलन में Over Head and Contractor Profit को घटा दिया गया है। प्राक्कलन की घटनोत्तर तकनीकी स्वीकृति अपेक्षित है।



कनीय अभियन्ता

ग्रा0का0वि0, कार्य प्रशाखा,

चानन



सहायक अभियन्ता

ग्रा0का0वि0, कार्यअ0प्रमं0,

चानन

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- RWD (W) Div. Lakhisarai
 Name of Block/Road :- T04 Bhalaun Naya Tole Ramal Bigha

A. For Road

1. Damage Location/Chainage :- 0.125 km

2. Damage Length :- 25m

3. Nature of Damage (Length Wise) (i) Breach :- 25m
 (ii) Crust Damage :-
 (iii) Only Flank Damage :-

whether traffic fully/Partially obstructed :- Fully Obstructed

4. Details of Restoration :-

(i) Material Being Used in Restoration :- Earth

(ii) Equipment/Tools Being Used in Restoration Works :- JCB, Grader, Roller

(iii) Restored Length In open Area :- 25m
 In habitation Area :-

(iv) If Restoration work done in habitation Area give Reason :-

B. For Bridge (Size of Bridge/Culvert)

(1) Damage Location/Chainage :-

(2) No. of Span Damage :-

(3) Length of Span :-

(4) Nature of Damage (Pier/Abutment/
 Wing Wall/Approach Road Damage) :-

(5) Details of Restoration :-

(i) Material Being Used in Restoration :-

(ii) Equipment/Tools Being Used in Restoration Works :-

(iii) Restored Length :-

Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :-

P. Rajan
 S-e

G. Kumar

U. H. E.
AB

Executive Engineer
 Rural Work, Department
 Work, Div, Lakhisarai

Uml
25/7/24
 Signature of Inspector
 (Official Seal)
Executive Engineer
 R.W.D. (W) Division
 Jamui

GENERAL ABSTRACT OF COST

Block: Chanan

District:- Lakhisarai

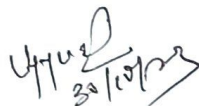
Name of Road:--

T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)

SL. No.	Item of Work	Amount
A	COST OF RECTIFICATION	3.35 Lacs
	ADD 18% GST	0.60 Lacs
	ADD 1% LABOUR CESS	0.03 Lacs
	SEIGNIORAGE FEE 10% ON BASIC RATE OF MINES MATERIAL	0.05 Lacs
	TOTAL COST OF RECTIFICATION	4.04 Lacs
	TOTAL COST OF PROJECT (A)	4.04 Lacs


02/10/23

Junior Engineer


30/10/23

Asstt. Engineer

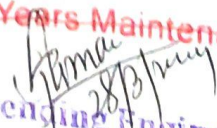

30/10/23

Executive Engineer
RWD Works Division
Lakhisarai

SE
RWD,(w), Circle
Munger

Ref. E.E. Letter No. 609 dt. 28/3/2024
Technically Sanctioned for Rs. 4.04 Lacs
(Rupees Four Lacs four Hundred) Only
for construction work & 5 Years Maintenance

Page 1


Superintending Engineer
Rural Works Department
Works Circle, Munger


28/3/24

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD :

T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)

DISTRICT

Lakhisarai

BLOCK

Chanan

DIVISION

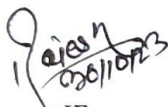
Lakhisarai

CD STRUCTURES

1

HUME PIPE

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	EARTHWORK	2.889
2	CROSS DRAINAGE	0.460 0.463
	SUB TOTAL OF INTIAL RECTIFICATION INDLUCDING SURFACE RENEWAL	3.349 3.351


JE
RWD


AE
RWD

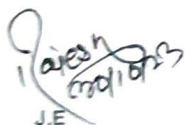

EE
RWD

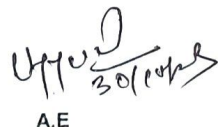
ABSTRACT OF SEIGNIORAGE FEE

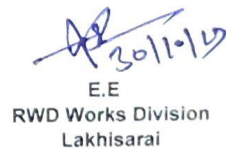
Name Of Road :- T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)

For Construction

Name of Material	Earth	26.5 mm to 9.5 mm	GSB 9.5-2.36	Local sand	Agg-63-45 G2	Stone Screening Type B 11.2 mm	Moorum	53-22.4 G3	Agg 13.2 ,mm	agg 9.5-4.75	agg 25-10	agg 4.75 below	agg 40	agg 20	agg 10	stone spalls	Coarse sand	Crushed stone Aggregate	Brick	Total Amount
unit	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	m3	No	
Quantity	1372.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	
Basic Rate	35.25	901.46	429.97	144.75	992.33	429.97	161.62	1100.04	595.16	595.16	901.46	429.97	992.33	1260.76	595.16	686.03	577.80	901.46	5.372	
Amount	48360.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	231.12	0.00	0.00	48611.75
S.F 10%	4838.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.11	0.00	0.00	4861.17


J.E.


A.E.


E.E.
RWD Works Division
Lakhisarai

DETAILS OF SEIGNIORAGE FEE FOR CONSTRUCTION

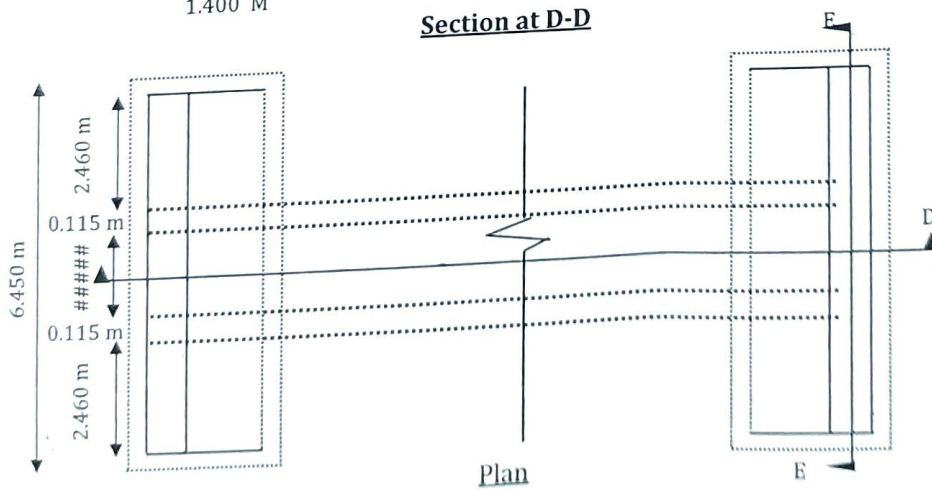
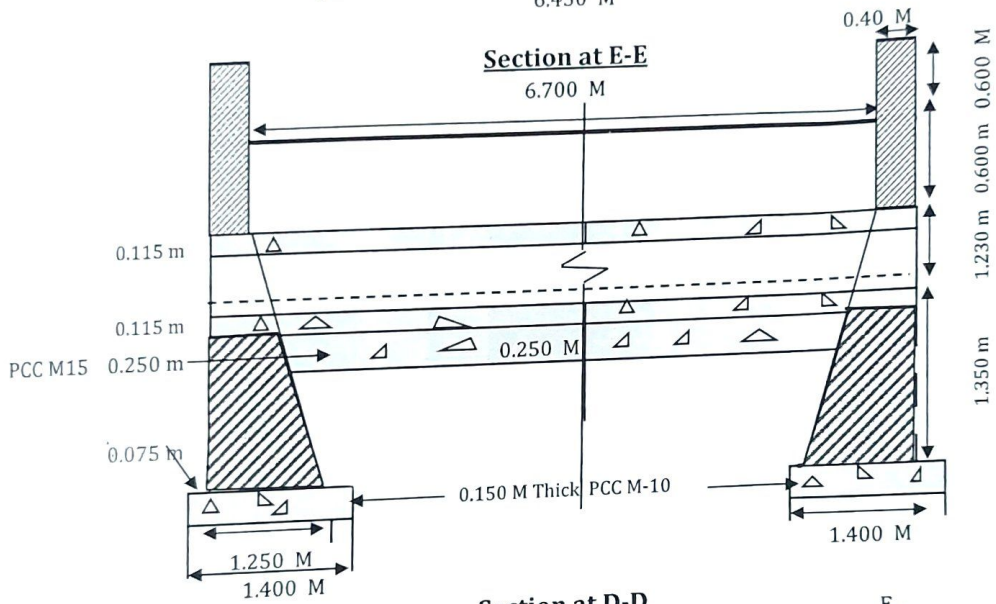
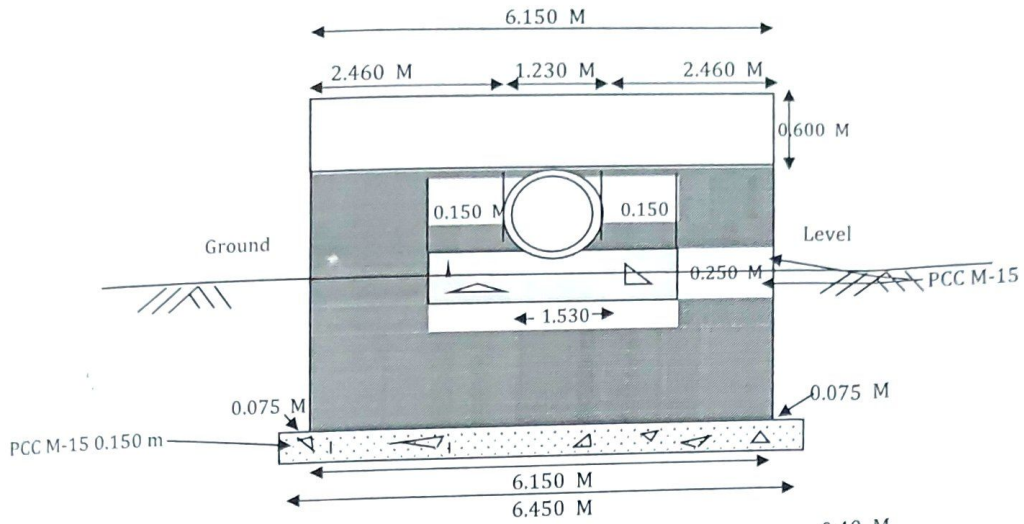
Name of Road	T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)																				
Description	Unit	Quantity	Material																		
			Earth	26.5 mm to 9.5 mm	GSB 9.5-2.36	Local sand	Agg-63-45 G2	Screening B	Mooru m	53-22.4 G3	Agg 13.2 ,mm	agg 25-10	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	agg 10	stone spalls	Coarse sand	Crushed stone Agg	Brick
Construction of Embankment	m3	1372.50	1372.50																		
Providing and laying RCC Pipe NP-3 for culverts (1000 mm Dia)	m3	7.50																0.40			
			1372.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	

Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	303.1		Construction of Embankment with Material Obtained from Borrow Pits								
			Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5								
			Above Ground	Cum	1	25.00	6.00 (av)	3.0	450.00		
			Below Ground	Cum	1	25.00	9.00 (av)	4.100	922.50		
			For 1000 m lead @ 100 %							1,372.50	210.47
										A) SUB TOTAL =	
										2,88,870.00	
										TOTAL COST OF PAVEMENT IN RS. =	
										2,88,870.00	


JE
RWD


AE
RWD


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RWD



QUANTITY FOR NEW H.P. CULVERT

Proposed and New H.P. Culvert

Internal Diameter

No. of Rows

1.00 nos

1000 mm

1 nos

Sl. No	SOR Item No	Description of Items	Unit	Qty	Rate (₹)	Amount (₹)
1	9.3 (B)	Providing and laying RCC pipe NP-3 for culverts on first class bedding of PCC M10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works,backfilling concrete and masonry works in head walls and parapets as per clause 1106 (1000 mm Dia)				
		3 x 2.50 = 7.50				
		7.50 m		7.500	6,135.18	46,014.00
		COST OF ONE HP CULVERT Size (1000mm x Single Row) Rs.				46,014.00

Cost of 1 H.P. CULVERT Size (1000 mm) Rs. =

46,014.00

QUARY CHART

<u>Bricks</u>	
Place :-	Local
By Rail :-	0.00km
By Road (Surface) :-	7.00km
By Road (Kachha):-	1.00km

**T04 Bhalui Naya Tola
Ramal Bigha
(Temporary
Restoration)**

<u>Local Sand</u>	
Place :-	Local
By Rail :-	0.00km
By Road (Surface) :-	2.00km
By Road (Kachha):-	1.00km

<u>Morrum</u>	
Place :-	Sheikhpura
By Rail :-	0.00km
By Road (Surface) :-	63.00km

<u>Stone Boulder</u>	
Place :-	Sheikhpura
By Rail :-	0.00km
By Road :-	63.00km

<u>Stone Metal Gr-II</u>	
Place :-	Sheikhpura
By Rail :-	0.00km
By Road :-	63.00km

<u>Stone Metal Gr-III</u>	
Place :-	Sheikhpura
By Rail :-	0.00km
By Road :-	63.00km

<u>Stone Aggregate (Chips)</u>	
Place :-	Mirzachowki / Kiul
By Rail :-	157.00km
By Road :-	14.00km

<u>Course Sand</u>	
Place :-	Kiul
By Rail :-	0.00km
By Road :-	12.00km

<u>Cement / Steel</u>	
Place :-	Local
By Rail :-	0.00km
By Road :-	23.00km

<u>Bitumen</u>	
Place :-	Barauni
By Rail :-	0.00km
By Road :-	63.00km

<u>Bitumen Emulsion</u>	
Place :-	Barauni
By Rail :-	0.00km
By Road :-	63.00km

<u>Hume Pipe</u>	
Place :-	Lakhisarai
By Rail :-	0.00km
By Road :-	23.00km

Rajesh
3/10/13

J.E

Uttam
30/10/13

A.E.

Asif
30/10/13

E.E.

RWD, (w), Division
Lakhisarai

Analysis for Carriage by Road & Rail

Name of Road:-- T04 Bhalui Naya Tola Ramal Bigha (Temporary Restoration)

District:- Lakhisarai

Block :- Chanan

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km										Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pukka / Surface					Katcha							
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59}$	x 6.45	x 63.00 Km = Rs 871.84	$\frac{8.00}{4.59}$	x 19.23	x 0.00 Km = Rs 0.00	226.17			891.84 Rs. 1098.01			
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99}$	x 7.94	x 63.00 Km = Rs 801.96	$\frac{8.00}{4.99}$	x 19.23	x 0.00 Km = Rs 0.00	226.17			835.04 Rs. 1028.13			
3	Stone Aggregate / Chips	Cum	Mirzachowki / Kiul	$\frac{8.00}{4.99}$	x 7.94	x 14.00 Km = Rs 178.21	$\frac{8.00}{4.99}$	x 19.23	x 0.00 Km = Rs 0.00	226.17	1389.99		1456.62 Rs. 1794.37			
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80}$	x 7.94	x 63.00 Km = Rs 833.70	$\frac{8.00}{4.80}$	x 19.23	x 0.00 Km = Rs 0.00	226.17			860.83 Rs. 1059.87			
5	Course Sand	Cum	Kiul	$\frac{8.00}{4.99}$	x 7.94	x 12.00 Km = Rs 152.75	$\frac{8.00}{4.99}$	x 19.23	x 0.00 Km = Rs 0.00	121.67			222.84 Rs. 274.42			
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00}$	x 7.94	x 63.00 Km = Rs 666.96	$\frac{8.00}{6.00}$	x 19.23	x 0.00 Km = Rs 0.00	121.67			640.95 Rs. 788.63			
7	Local Sand	Cum	Local	$\frac{8.00}{4.99}$	x 7.94	x 2.00 Km = Rs 25.46	$\frac{8.00}{4.99}$	x 19.23	x 1.00 Km = Rs 30.83	121.67			144.46 Rs. 177.96			
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00}$	x 7.94	x 7.00 Km = Rs 222.32	$\frac{8.00}{2.00}$	x 19.23	x 1.00 Km = Rs 76.92	506.76			654.36 Rs. 806.00			
9	Cement	MT	Lakhisarai	$\frac{8.00}{8.00}$	x 7.94	x 23.00 Km = Rs 182.62	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	382.44			458.31 Rs. 565.00			
10	Steel	MT	Lakhisarai	$\frac{8.00}{8.00}$	x 7.94	x 23.00 Km = Rs 182.62	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	412.68			483.31 Rs. 595.30			
11	Bitumen Emulsion	MT	Barauni	$\frac{8.00}{8.00}$	x 7.94	x 63.00 Km = Rs 500.22	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	429.76			755.19 Rs. 929.98			
12	Bitumen	MT	Barauni	$\frac{8.00}{8.00}$	x 7.94	x 63.00 Km = Rs 500.22	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	429.76			755.19 Rs. 929.98			
13	Hume Pipe (1000 mm)	m	Lakhisarai	$\frac{8.00}{10.00}$	x 7.94	x 23.00 Km = Rs 146.10	$\frac{8.00}{10.00}$	x 19.23	x 0.00 Km = Rs 0.00	87.08			189.36 Rs. 233.18			
14	Hume Pipe (600 mm)	m	Lakhisarai	$\frac{8.00}{25.00}$	x 7.94	x 23.00 Km = Rs 58.44	$\frac{8.00}{25.00}$	x 19.23	x 0.00 Km = Rs 0.00	37.32			77.76 Rs. 95.70			
15	Hume Pipe (300 mm)	m	Lakhisarai	$\frac{8.00}{60.00}$	x 7.94	x 23.00 Km = Rs 24.35	$\frac{8.00}{60.00}$	x 19.23	x 0.00 Km = Rs 0.00	37.32			50.07 Rs. 61.67			

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	12.10 9.8	7.94 6.45
Unsurface Gravel Road	14.60 11.80	9.56 7.76
Kachha Road	29.30 23.80	19.23 15.61

* Subjected to Verification of Lead

Rakesh
9/10/23
JE
RWD

Vijay
30/10/23
AE
RWD

42
30/10/23
EE
RWD

Analysis for Carriage Through Railway from Quarry Site to Work Site

Mirzachawki to Kiul

Material -Stone Aggregate / Chips

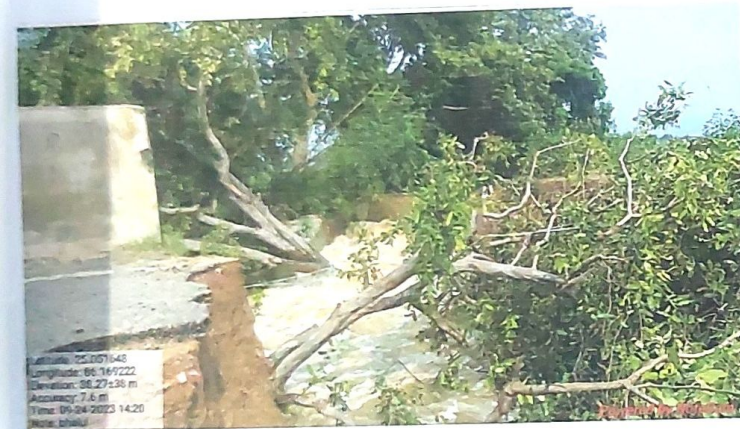
Quarry Site to Mirzachawki Railway Yard (By Road)

Pucka / Surface	=	$\frac{8.00}{4.99}$	x	7.94	x	4.00 Km	=	Rs 50.92
Unsurface Gravel Road	=	$\frac{8.00}{4.99}$	x	9.56	x	0.00 Km	=	Rs 0.00
Kachha Road	=	$\frac{8.00}{4.99}$	x	19.23	x	0.00 Km	=	Rs 0.00
Loading & Unloading	=						=	Rs 226.17
(i)				Total		"A"	=	Rs 277.09

Mirzachawki Railway Yard to Kiul Railway Yard = 157.00 Km

Railway freight charge from Mirzachawki Railway station to Kiul Railway station	=	For 1 MT	157.00 Km	=	Rs 316.10	=	Rs 316.10
Busy Season charge 12% of Railway freight charge	=	For 1 MT		=	12%	=	Rs 37.93
Railway Development Charge to 5% of Railway freight Charge		For 1 MT		=	5%	=	Rs 15.81
Railway Terminal Charge Rs 40/- Per Tonne Per Terminal		For 1 MT	2	x	Rs 40.00	=	Rs 80.00
Total	=	For 1 MT		=		=	Rs 449.84
Rate for Railway freight Charge		"B"	For 1 Cum	=	Rs 449.84 x 1.60	=	Rs 719.75
			Add 12% Overhead	=	12%	=	Rs 86.37
			Add 10% Contractor Profit	=	10%	=	Rs 80.61
(ii) Gross Rate for Railway freight Charge	=	For 1 Cum		=		=	Rs 886.73
(iii) Loading & Unloading Cost	=	For 1 Cum		=		=	Rs 226.17
(i) + (ii) + (iii)	=	For 1 cum	=	Rs 277.09 +	Rs 886.73 +	Rs 226.17	= 1389.99

T04 Bhalui Naya Tola Ramal Bigha (Temp. Restoration)



Rajeev
30/11/23
SE

Uttam
30/11/23

30/11/23
R

T04 Bhalui Naya Tola Ramal Bigha (Temp. Restoration)



Raiesh
39/10/23
ft

4/11/23
20/10/23

AD 20/10/23
RL