



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar



Name of the Road :-

T03 Kachhua Se Satgharwa Kodasi Road (Temporary Restoration)

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Chanan	
TOTAL LENGTH OF ROAD	:	0.500 0.040	KM
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL (INCLUDING LABOUR CESS & GST)	:	14.56 14.507 14.50	Lac
TOTAL COST OF PROJECT	:	14.56 14.507 14.50	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 - I (Bihar)

तकनीकी प्रतिवेदन

पथ का नाम :- T03 Kachhua Se Satgharwa Kodasi Road (Temporary Restoration)

वित्तीय वर्ष- 2023-24

शीर्ष- PMGSY

प्रखण्ड- चानन

प्राक्कलित राशि :-14.59 लाख।

प्रस्तुत प्राक्कलन स्थल निरीक्षण पश्चात् विभागीय निदेशानुसार तैयार किया गया है। यह पथ T03 Kachhua Se Satgharwa Kodasi Road वर्तमान में PMGSY 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।


Rajesh
31/11/23

कनीय अभियन्ता
ग्रा0का0वि0, कार्य प्रशाखा,
चानन


S. K. Singh
08/12/23

सहायक अभियन्ता
ग्रा0का0वि0, कार्यअ0प्रमं0,
चानन

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- RWD (W) Div. Lakhisarai
 Name of Block/Road :- T03 Kachhua Se Salgharwa Kodosi Road

A. For Road

1. Damage Location/Chainage :- 0.2 km

2. Damage Length :- 40m

3. Nature of Damage (Length Wise) (i) Breach :- 40 m

(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, GSB

(ii) Equipment/Tools Being Used in Restoration Works :- JCB, Tractor, roller

(iii) Restored Length

In open Area :- 2.20 m 2 40m

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) :-

Pajesh
S.E.

V.H.
AR

[Signature]
Executive Engineer
Rural Work, Department
Work, Div, Lakhisarai

[Signature]
Signature of Inspector
(Official Seal)

Executive Engineer
R.W.D. (W) Division
Jamul

GENERAL ABSTRACT OF COST

District:- Lakhisarai

Block: Chanan

Length of Road:--

0.040
~~0.500~~ KM

Name of Road:--

T03 Kachhua Se Satgharwa Kodasi Road (Temporary Restoration)

SL. No.	Item of Work	Amount
A	COST OF RECTIFICATION	: 12.02 12.04 Lacs
	ADD 18% GST	: 2.16 2.17 Lacs
	ADD 1% LABOUR CESS	: 0.12 Lacs
	SEIGNIORAGE FEE 10% ON BASIC RATE OF MINES MATERIAL	: 0.20 0.26 Lacs
	TOTAL COST OF RECTIFICATION	14.507 14.56 14.59 Lacs
B	Less for Contractor Profit @ 9.1%	: 14.50 Lacs
	TOTAL COST OF PROJECT (A+B)	14.507 14.56 14.50 Lacs

Rajesh
30/10/23

Junior Engineer

Ujjwal
30/10/23

Asstt. Engineer

A
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. 14.507 lakh

(Rupees Fourteen lakh fifty

thousand seven hundred

for construction work & 5 Years Maintenance.

Page 1

[Signature]
Superintending Engineer
Rural Works Department
Munger Circle, Bihar

[Signature]
28/3/24

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD : T03 Kachhua Se Satgharwa Kodasi Road (Temporary Restoration)

DISTRICT Lakhisarai

BLOCK Chanan

DIVISION Lakhisarai

LENGTH OF ROAD (in Km) ~~0.500~~ 0.0406

LENGTH OF BT PAVEMENT 500

LENGTH OF CC PAVEMENT 0

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	EARTHWORK	11.786
2	GSB GR-II	0.234 0.255
	SUB TOTAL OF INTIAL RECTIFICATION INDLUCDING SURFACE RENEWAL	12.020 12.041

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30/10/23
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ABSTRACT OF SEIGNIORAGE FEE

Name Of Road :- T03 Kachhua Se Satgharwa Kodasi Road (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	5600.00	6.75	4.80	7.65	53.05	11.69	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	197400.00	6084.86	2063.86	1107.34	52643.11	5027.52	566.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	264893.55
S.F 10%	19740.00	608.49	206.39	110.73	5264.31	502.75	56.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26489.35

20665.61

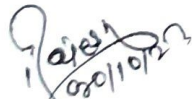
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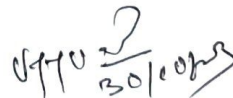
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E.E
RWD Works Division
Lakhisarai

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	40.00	(6+21)/2	5.0	2,800.00			
			Below Ground	Cum	1	40.00	17.50	4.000	2,800.00			
			For 1000 m lead @ 100 %							5,600.00	210.47	11,78,632.00
			A) SUB TOTAL =									11,78,632.00
			Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS									
2	4.1	401	Granular Sub-base with Well Graded Material (Table 400.1) (ii) (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.									
			OVER LAY FOR BT	Cum	1	40.00	3.750	0.100	15.000	1560.62	23409.00	
			Net GSB Qty						15.000	1,697.11	25,457.00	
			B) SUB TOTAL OF CRUST =									23409 25,457.00
			TOTAL COST OF PAVEMENT IN RS.=									42,04,089.00

1202041.00


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QUARRY CHART

Stone Boulder

Place :- Sheikhpura
By Rail :- 0.00km
By Road :- 61.00km

Stone Metal Gr-II

Place :- Sheikhpura
By Rail :- 0.00km
By Road :- 61.00km

Stone Metal Gr-III

Place :- Sheikhpura
By Rail :- 0.00km
By Road :- 61.00km

Stone Aggregate (Chips)

Place :- Mirzachowki / Kiul
By Rail :- 157.00km
By Road :- 15.00km

Course Sand

Place :- Kiul
By Rail :- 0.00km
By Road :- 12.00km

Cement / Steel

Place :- Local
By Rail :- 0.00km
By Road :- 26.00km

Bitumen

Place :- Barauni
By Rail :- 0.00km
By Road :- 62.00km

Bitumen Emulsion

Place :- Barauni
By Rail :- 0.00km
By Road :- 62.00km

Hume Pipe

Place :- Lakhisarai
By Rail :- 0.00km
By Road :- 26.00km

Bricks

Place :- Local
By Rail :- 0.00km
By Road (Surface) :- 7.00km
By Road (Kachha) :- 1.00km

**T03 Kachhua Se
Satgharwa Kodasi
Road (Temporary
Restoration)**

Local Sand

Place :- Local
By Rail :- 0.00km
By Road (Surface) :- 2.00km
By Road (Kachha) :- 1.00km

Morum

Place :- Sheikhpura
By Rail :- 0.00km
By Road (Surface) :- 61.00km

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RWD, (w), Division
Lakhisarai

Superintending Engineer
Rural RWD, (w), Division
Munger

Analysis for Carriage by Road & Rail

Name of Road:--

T03 Kachhua Se Satgharwa Kodasi Road (Temporary Restoration)

District:--

Lakhisarai

Block :- Chanan

				Carriage Cost & Lead in Km										Loading & Unloading Cost	Carriage Cost by Rail Head	Total
SI No	Item with Source	Unit	Source Up to	Pucka / Surface					Katcha							
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59}$	x 7.94	x 61.00 Km = Rs 844.17	$\frac{8.00}{4.59}$	x 19.23	x 0.00 Km = Rs 0.00	$\frac{183.58}{226.17}$				Rs. 1070.34		
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99}$	x 7.94	x 61.00 Km = Rs 776.50	$\frac{8.00}{4.99}$	x 19.23	x 0.00 Km = Rs 0.00	$\frac{226.17}{226.17}$				Rs. 1002.67		
3	Stone Aggregate / Chips	Cum	Mirzachowki / Kiul	$\frac{8.00}{4.99}$	x 7.94	x 15.00 Km = Rs 190.94	$\frac{8.00}{4.99}$	x 19.23	x 0.00 Km = Rs 0.00	$\frac{226.17}{226.17}$		1389.99		Rs. 1007.10		
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80}$	x 7.94	x 61.00 Km = Rs 807.23	$\frac{8.00}{4.80}$	x 19.23	x 0.00 Km = Rs 0.00	$\frac{226.17}{226.17}$				Rs. 1033.40		
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	$\frac{226.17}{226.17}$				Rs. 274.42		
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00}$	x 7.94	x 61.00 Km = Rs 645.79	$\frac{8.00}{6.00}$	x 19.23	x 0.00 Km = Rs 0.00	$\frac{226.17}{226.17}$				Rs. 767.46		
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 39.83	$\frac{25.026}{226.17}$				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	$\frac{506.76}{506.76}$				Rs. 806.00		
9	Cement	MT	Lakhisarai	$\frac{8.00}{8.00}$	x 7.94	x 26.00 Km = Rs 206.44	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	$\frac{310.42}{302.44}$				Rs. 588.88		
10	Steel	MT	Lakhisarai	$\frac{8.00}{8.00}$	x 7.94	x 26.00 Km = Rs 206.44	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	412.68				Rs. 619.12		
11	Bitumen Emulsion	MT	Barauni	$\frac{8.00}{8.00}$	x 7.94	x 62.00 Km = Rs 492.28	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	429.76				Rs. 922.04		
12	Bitumen	MT	Barauni	$\frac{8.00}{8.00}$	x 7.94	x 62.00 Km = Rs 492.28	$\frac{8.00}{8.00}$	x 19.23	x 0.00 Km = Rs 0.00	429.76				Rs. 922.04		
13	Hume Pipe (1000 mm)	m	Lakhisarai	$\frac{8.00}{10.00}$	x 7.94	x 26.00 Km = Rs 165.15	$\frac{8.00}{10.00}$	x 19.23	x 0.00 Km = Rs 0.00	87.08				Rs. 252.23		
14	Hume Pipe (600 mm)	m	Lakhisarai	$\frac{8.00}{25.00}$	x 7.94	x 26.00 Km = Rs 66.06	$\frac{8.00}{25.00}$	x 19.23	x 0.00 Km = Rs 0.00	37.32				Rs. 103.38		
15	Hume Pipe (300 mm)	m	Lakhisarai	$\frac{8.00}{60.00}$	x 7.94	x 26.00 Km = Rs 27.53	$\frac{8.00}{60.00}$	x 19.23	x 0.00 Km = Rs 0.00	37.32				Rs. 64.85		

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	7.94 $\frac{6.45}{7.94}$
Unsurface Gravel Road	14.60	9.56
Kachha Road	29.30	19.23

* Subjected to Verification of Lead

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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~~ 0

Add 10% Contractor Profit = 10% = ~~Rs 80.61~~ 0

(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

T03 Kachua To Satghara Kodasi

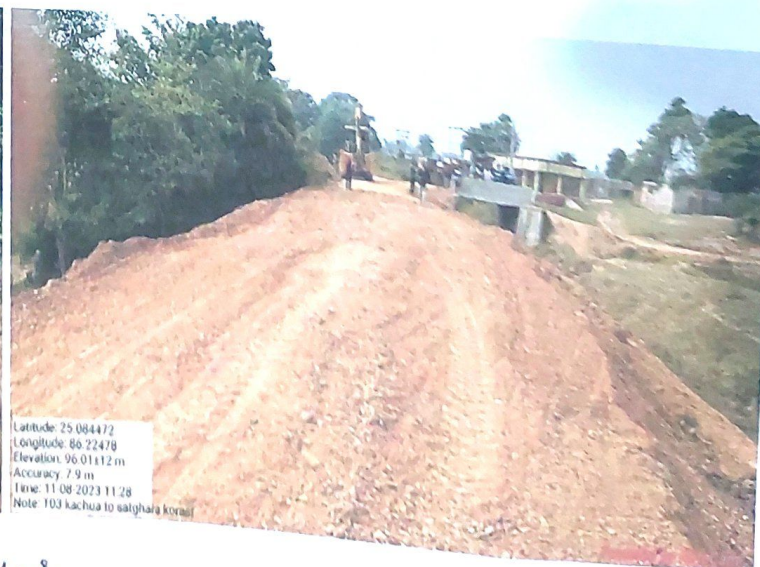


Rajen
Kachua
Satghara

01/01/23

01/01/23

T03 Kachua To Satghara Kodasi



Rajesh
mohapatra

Upto
30/10/23

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