



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR



Name of the Road :-

To 4 - Kamepur - Pali
RCD Road Kamepur More To RCD Road Nathanpur More

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Barahiya	
TOTAL LENGTH OF ROAD	:	<i>1.700</i> 7 m	KM
PART-A TOTAL COST OF RESTORATION	:	26.774	Lac
TOTAL COST OF PROJECT	:	26.774	Lac

Submitted By:

Executive Engineer

RWD WORKS DIVISION

Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

To 4 Kamarpur - Pali

NAME OF ROAD :

RCD Road Kamarpur More To RCD Road Nathanpur More

DISTRICT

Lakhisarai

BLOCK

Barahiya

DIVISION

Lakhisarai

LENGTH OF ROAD (in Km)

1.700 7.00

CD STRUCTURES

8

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	Brick Bat Filling	20.171
2	GSB GR-II	2.395
	SUB TOTAL OF Restoration	22.566
	LABOUR CESS 1% of cost	0.226
	GST 12 % of cost	2.708
	SEIGNORAGE FEE @ 10 % on Minor Mines	1.274
	TOTAL OF Restoration	26.774
	TOTAL COST OF PROJECT IN LACS =	26.774

Deduct Contractor Profit 9.1%

= - 2.436 Lakhs

Total Rs. 24.338 Lakhs


JE
RWD


AE
RWD


EE
RWD
10-11-2021

T.S Amount

Construction Cost: Rs. 26.774 Lakh

Deduct Contractor profit 9.1% = Rs - 2.436 Lakh

Total = Rs. 24.338 Lakh

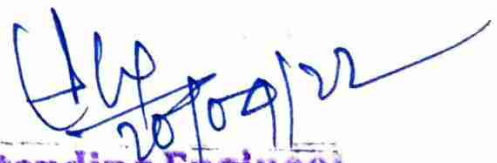
Ref. E.E. Letter No. 548 dt. 18.4.2022

Technically Sanctioned for Rs. 24.338 Lakh

(Rupees Twenty Four Lakh thirty

three thousand eight hundred Only)

for construction work & 5 Years Maintenance



Superintending Engineer

Rural Works Department

Works Circle, Munger

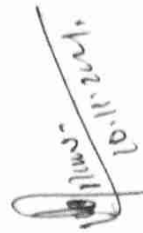

20/09/2022

Name of Road:- RCD Road Kamerpur More To RCD Road Nathanpur More

Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS											
1			Brick BAT Filling Emergent Repair by Filling Brick Bats in Flood damaged Stretch of the Road for making it Motorableas per S/D of E/I								
			Qty as per Measurement	cum					963.98		
			Net Qty						963.98	2,092.45	20,17,083.00
2	4.1	401	Granular Sub-base with Well Graded Material (Table 400.1)								
		(ii)	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.								
			Qty as per Measurement	Cum					157.14		
			Net GSB Qty						157.14	1,524.36	2,39,538.00
TOTAL =										22,56,621.00	
TOTAL COST OF PAVEMENT IN RS.=										22,56,621.00	


8/11/21
JE
RWD


8/11/21
AE
RWD


10/11/2021
EE
RWD

स्थल निरीक्षण प्रतिवेदन

वर्ष 2021-22 के बाढ़ में क्षतिग्रस्त पथों में कराये गए मोटरबुल कार्य की जाँच।

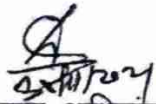
पथ का नाम :- T04_ कमरपुर से पाली

पथ की लम्बाई :-7.000 कि०मी०

प्राक्कलित राशि :-26.774/- लाख

अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मुंगेर के पत्रांक 1162 दिनांक 16.11.2021 द्वारा प्राप्त निदेश के अनुपालन में आज दिनांक 21.11.2021 को ग्रामीण कार्य विभाग, कार्य प्रमंडल, लखीसराय के अधीन बाढ़ से क्षतिग्रस्त पथ का निरीक्षण सहायक अभियंता श्री लौडिक प्रसाद राय के साथ वर्ष 2021-22 में बाढ़ में क्षतिग्रस्त पथ का कराये गए मोटरबुल कार्य का स्थल निरीक्षण किया। जाँच के समय कार्य प्रखंडल, लखीसराय के सहायक अभियंता श्री संदीप कुमार एवं श्री ब्रजेश कुमार सिंह, कनीय अभियंता श्री श्याम सुन्दर प्रसाद एवं श्री रंजीत कुमार उपस्थित रहे।

उक्त पथ के निरीक्षण के दौरान पाया गया कि पथ में बने बड़े गड्ढों में Moorum से भरकर उसके उपर G.S.B. (Gr.II) (जगह-जगह 200mm एवं 150mm मुटाई में) डालकर सम्पीडन का कार्य कराया गया है, जिसका शत प्रतिशत जाँच किया गया है, एवं उक्त पथ के प्राक्कलन एवं मापीपुस्त में दर्ज की गई मापी को कार्य स्थल के अनुसार पाया।



सहायक अभियंता

ग्रा०का०वि०, कार्य प्रमं०

खड़गपुर-तारापुर



कार्यपालक अभियंता

ग्रा०का०वि०, कार्य प्रमं०

खड़गपुर-तारापुर

तकनीकी प्रतिवेदन

पथ का नाम :- T04_ कमरपुर से पाली (~~Red kamarpur road to Redhatlaumer~~ *8* *fali*)

पथ की लम्बाई :- 7.000 कि०मी०

प्राक्कलित राशि :- 26.774 / - लाख

उपर्युक्त पथ को मोटरेबुल करने हेतु मरम्मत का प्राक्कलन, माह अगस्त 2021 में हुई भारी बारिश एवं बाढ़ से पथ कई दिनों तक पथ पानी में डूबा हुआ था एवं बाढ़ का पानी बहाव होने से बड़े-बड़े आकार का Pot holes बन गया था, एवं पथ में कटाव भी हो गया था। उक्त पथ लखीसराय जिला के बड़हिया प्रखण्ड में पड़ता है। बाढ़ आने के कारण पूरा प्रखण्ड जलमग्न हो गया था, जिस कारण इस पथ काफी क्षतिग्रस्त हुआ। सचिव महोदय, ग्रामीण कार्य विभाग, बिहार, पटना का पत्रांक- मु०अ०-4(मु०) विविध कार्य-23-60/2020-1937 दिनांक 07.07.2021 द्वारा प्राप्त निदेश के अनुसार क्षतिग्रस्त पथांश का फोटोग्राफ State MIS पर अपलोड करने के पश्चात् पथ का मोटरेबुल कार्य पूर्ण कराकर निदेशानुसार फोटोग्राफ State MIS पर अपलोड करने के उपरान्त कराये गए कार्यों को मापी पुस्त में दर्ज कराकर प्राक्कलन तैयार किया गया है। प्रस्तुत प्राक्कलन अद्यतन अनुसूचित दर एवं सामग्रियों के औसत लीड के आधार पर बनाया गया है। पथ में बने बड़े गड्ढों को Brick Bats से भरकर उसके उपर G.S.B. (Gr.II) (जगह-जगह 150mm - 200mm की मुटाई में) भरकर सम्पीडन किया गया एवं पथ को मोटरेबुल कराया गया, जिसका तकनीकी अनुमोदन अपेक्षित है।


कनीय अभियंता

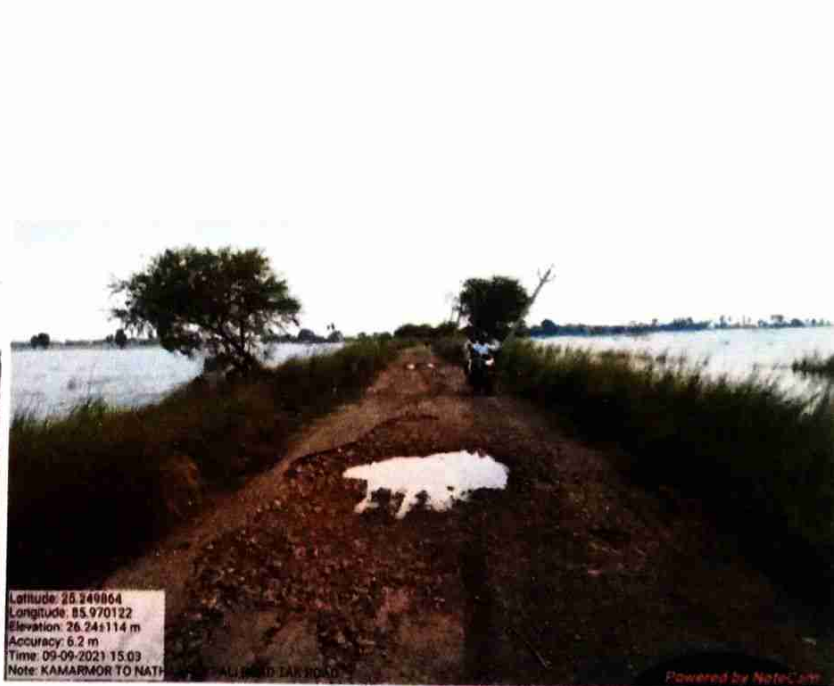

सहायक अभियंता


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, लखीसराय।

RCD Road Kamerpur More To RCD Road Nathanpur More



RCD Road Kamerpur More To RCD Road Nathanpur More



Pot Measurement GSB Gr-II

Name of Road:- RCD Road Kamerpur More To RCD Road Nathanpur More

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1	10	2.5	0.15	3.75
1	20	3.75	0.15	11.25
1	25	2.5	0.15	9.38
1	10	2	0.15	3
1	4	3	0.15	1.8
1	60	2	0.15	18
1	50	1.5	0.15	11.25
1	50	3.75	0.15	28.13
1	3	2	0.15	0.9
1	20	3.75	0.15	11.25
1	60	3.75	0.15	33.75
1	2	2	0.15	0.6
1	60	0.6	0.15	5.4
1	12	3.75	0.15	6.75
1	5	2	0.15	1.5
1	5	1.5	0.15	1.13
1	15	3.75	0.15	8.44
1	2.5	2	0.15	0.75
2	0.6	0.6	0.15	0.11
			TOTAL:-	157.14

[Signature]
8/11/21
ME

[Signature]
8/11/21
AE

[Signature]
10/11/2021

Pot Measurement Brick Bats

Name of Road:- RCD Road Kamepur More To RCD Road Nathanpur More

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1	6	1	0.3	1.8
1	6	2	0.3	3.6
1	8	1	0.15	1.2
1	2	3.75	0.15	1.13
1	100	3.75	0.45	168.75
1	700	3.75	0.3	787.5
Total				963.98


8/11/21
SR

TBD
8-11-21
AE


10/11/2021.

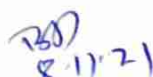
Name of Road :-

RCD Road Kamerpur More To RCD Road Nathanpur More

SEIGNIORAGE FEE

Material	Unit	Quantity	Basic rate	Amount	Seigniorage fee
Earth	m3	0.00	34.82	0.00	0.00
GSB 26.5-9.5	m3	70.40	604.91	42584.89	4258.49
GSB 9.5-2.36	m3	50.28	514.58	25875.55	2587.56
Local sand	m3	80.46	141.85	11412.64	1141.26
Agg-63-45 G2	m3	0.00	480.64	0.00	0.00
Screening B	m3	0.00	397.73	0.00	0.00
Moorum	m3	0.00	159.97	0.00	0.00
53-22.4 G3	m3	0.00	511.44	0.00	0.00
Brick Bats	m3	1157.00	1032.00	1194024.00	119402.40
				1273897.08	127389.71


JE

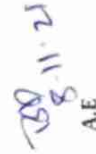

AE


BE

RCD Road Kameerpur More To RCD Road Nathanpur More

Name of Road		Material Analysis (Minor Mines)																						
Sl. No.	Description	Unit	Quantity	Earth	GSB 53-9.5	GSB 26.5-9.5	GSB 9.5-2.36	Local sand	Agg-63-45 G2	Screening B	Moortu m	53-22.4 G3	Agg 13.2 mm	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	agg 10	Moortu Agg	stone upall s	Coars in sand	cement	Brick Blats	
1	Construction of Embankment	m3	0.00	0.00																				
2	Brick Bat filling	m3	963.98																					1157.00
3	GSB Grading II	m3	157.14			70.4	50.3	80.46																
				0.00	0.00	70.40	50.28	80.46	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	1157.00


J.E. 8/11/24


A.E. 8.11.24


J.E. 10.11.2024

Analysis for Carriage by Road & Rail

RCD Road Kamerpur More To RCD Road Nathanpur More

Name of Road:-

District:-

Lakhisarai

Block :- Barahiya

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface						
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00 4.59	x 7.94	x 48.00 Km = Rs 664.26	8.00 4.59	x 19.23 x 0.00 Km = Rs 0.00	210.23	Rs 874.49
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	8.00 4.99	x 7.94	x 48.00 Km = Rs 611.01	8.00 4.99	x 19.23 x 0.00 Km = Rs 0.00	210.23	Rs 821.24
3	Stone Aggregate / Chips	Cum	Sheikhpura	8.00 4.99	x 7.94	x 24.00 Km = Rs 305.51	8.00 4.99	x 19.23 x 0.00 Km = Rs 0.00	210.23	Rs 1873.85
4	Stone Boulder	Cum	Sheikhpura	8.00 4.80	x 7.94	x 48.00 Km = Rs 635.20	8.00 4.80	x 19.23 x 0.00 Km = Rs 0.00	210.23	Rs 845.43
5	Coarse Sand	Cum	Kiul River	8.00 4.99	x 7.94	x 35.00 Km = Rs 445.53	8.00 4.99	x 19.23 x 1.00 Km = Rs 30.83	113.70	Rs 590.06
6	Binding Material/Moorum	Cum	Sheikhpura	8.00 6.00	x 7.94	x 48.00 Km = Rs 508.16	8.00 6.00	x 19.23 x 0.00 Km = Rs 0.00	113.70	Rs 621.86
7	Local Sand	Cum	Local	8.00 4.99	x 7.94	x 2.00 Km = Rs 25.46	8.00 4.99	x 19.23 x 1.00 Km = Rs 30.83	113.70	Rs 169.99
8	Brick	1000 Nos	Local	8.00 2.00	x 7.94	x 7.00 Km = Rs 222.32	8.00 2.00	x 19.23 x 1.00 Km = Rs 76.92	477.52	Rs 776.76
9	Cement	MT	Local	8.00 8.00	x 7.94	x 17.00 Km = Rs 134.98	8.00 8.00	x 19.23 x 0.00 Km = Rs 0.00	316.10	Rs 451.08
10	Steel	MT	Local	8.00 8.00	x 7.94	x 17.00 Km = Rs 134.98	8.00 8.00	x 19.23 x 0.00 Km = Rs 0.00	337.28	Rs 472.26
11	Bitumen Emulsion	MT	Barauni	8.00 8.00	x 7.94	x 91.00 Km = Rs 722.54	8.00 8.00	x 19.23 x 0.00 Km = Rs 0.00	361.31	Rs 1083.85
12	Bitumen	MT	Barauni	8.00 8.00	x 7.94	x 91.00 Km = Rs 722.54	8.00 8.00	x 19.23 x 0.00 Km = Rs 0.00	361.31	Rs 1083.85
13	Hume Pipe (1000 mm)	m	Lakhisarai	8.00 10.00	x 7.94	x 31.00 Km = Rs 196.91	8.00 10.00	x 19.23 x 0.00 Km = Rs 0.00	81.88	Rs 278.79
14	Hume Pipe (600 mm)	m	Lakhisarai	8.00 25.00	x 7.94	x 31.00 Km = Rs 78.76	8.00 25.00	x 19.23 x 0.00 Km = Rs 0.00	35.09	Rs 113.85
15	Brick Bat	Cum	Local							Rs 1032.00

* 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	10.10	7.94
Unsurface Gravel Road	12.10	9.56
Kachha Road	24.30	19.23

JE 8/11/24
RWD

AE 8/11/24
RWD

10-11-2021
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)

$$\text{Pukka / Surface} = \frac{8.00}{4.99} \times 7.94 \times 4.00 \text{ Km} = \text{Rs } 50.92$$

$$\text{Unsurface Gravel Road} = \frac{8.00}{4.99} \times 9.56 \times 0.00 \text{ Km} = \text{Rs } 0.00$$

$$\text{Kachha Road} = \frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$$

$$\text{Loading \& Unloading} = \text{Rs } 210.23$$

$$(i) \quad \text{Total "A"} = \text{Rs } 261.15$$

Mirzachawki Railway Yard to Kiul Railway Yard = 157.00 Km

$$\text{Railway freight charge from Mirzachawki Railway station} = \text{For 1 MT } 157.00 \text{ Km} = \text{Rs } 316.10 = \text{Rs } 316.10$$

$$\text{Busy Season charge 12\% of Railway freight charge} = \text{For 1 MT} = 12\% = \text{Rs } 37.93$$

$$\text{Railway Development Charge to 5\% of Railway freight} = \text{For 1 MT} = 5\% = \text{Rs } 15.81$$

$$\text{Railway Terminal Charge Rs 40/- Per Tonne Per Terminal} = \text{For 1 MT} \quad 2 \times \text{Rs } 40.00 = \text{Rs } 80.00$$

$$\text{Sub-Total} = \text{For 1 MT} = \text{Rs } 449.84$$

$$\text{Add GST 1\%} = \text{Rs } 0.00$$

$$\text{Total} = \text{For 1 MT} = \text{Rs } 449.84$$

$$\text{Rate for Railway freight Charge "B"} = \text{For 1 Cum} = \text{Rs } 449.84 \times 1.60 = \text{Rs } 719.75$$

$$\text{Add 12\% Overhead} = 12\% = \text{Rs } 86.37$$

$$\text{Add 10\% Contractor Profit} = 10\% = \text{Rs } 80.61$$

$$(ii) \quad \text{Gross Rate for Railway freight Charge} = \text{For 1 Cum} = \text{Rs } 886.73$$

$$(iii) \quad \text{Loading \& Unloading Cost} = \text{For 1 Cum} = \text{Rs } 210.23$$

Carriage Cost from Quarry to Kiul Railway Yard

$$(i) + (ii) + (iii) = \text{For 1 cum} = \text{Rs } 261.15 + \text{Rs } 886.73 + \text{Rs } 210.23 = 1358.11$$

Schedule XLV-Form No. 134

R.C. Dhoo
Kamarpur Mo to R.C. Nathankuma

Laxmi Sareni

DIVISION

Barabhipa

SUB-DIVISION

MEASUREMENT BOOK

879-678

उम्मीद किता जात है कि मापन
 मे 678 के फर
 100 फुल में 100 फुल
 है, फर 678 को मापन
 वही प्रयुक्त के कितापु (सि-नगपु) प्रयुक्त
 निर्माण कार्य हेतु मापन प्रयुक्त
 कमेटी कुमा (कि) के नाम से निर्माण
 किता जात है


 11/10/2021
 Executive Engineer
 Rural Works Department
 Work Division, Lakhisarai

Sch. XLV—Form No. 134

Lakhisarai DIVISION
Barkha SUB-DIVISION

Measurement Book

No. 678

Name of Officer _____

Date of first entry _____

Date of last entry _____

Record Entry

1. Pondip Lajip Bore

Bole

$1 + 6 \cdot m + 1 \cdot m + 0.3 = 1.80$

$1 + 6 \cdot m + 2 \cdot m + 0.3 = 3.60$

$1 + 8 \cdot m + 1 \cdot m + 0.15 = 1.20$

$1 + 2 \cdot m + 3.75 + 0.15 = 1.13$

$3 + 10 \cdot m + 3.75 + .45 = 151.875$

$1 + 10 \cdot m + 3.75 + .45 = 16.875$

$23 + 10 \cdot m + 3.75 + .30 = 776.25$

$1 + 10 \cdot m + 3.75 + .30 = 11.25$

Continuation 963.98m

963.98 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. Sandip granular sub-base					
Gravel					
1710.00 x 2.50 x 0.150					= 3.75
1720.00 x 3.75 x 0.150					= 11.25
1725.00 x 2.50 x 0.150					= 9.38
1710.00 x 2.00 x 0.150					= 3.00
174.00 x 3.00 x 0.150					= 1.80
2730.00 x 2.00 x 0.150					= 18.00
1730.00 x 1.50 x 0.150					= 6.75
1720.00 x 1.50 x 0.150					= 4.50
1730.00 x 3.75 x 0.150					= 16.875
1720.00 x 3.75 x 0.150					= 11.25
173.00 x 2.00 x 0.150					= 0.900

1720.00 x 3.75 x 0.150	= 11.25
2730.00 x 3.75 x 0.150	= 33.75
172.00 x 2.00 x 0.150	= 0.600
2730.00 x 0.60 x 0.150	= 5.40
1712.00 x 3.75 x 0.150	= 6.75
175.00 x 2.00 x 0.150	= 1.50
175.00 x 1.50 x 0.150	= 1.13
172.50 x 2.00 x 0.150	= 0.75
270.60 x 0.60 x 0.150	= 0.11

157.14m³

15.11.21
JE

15.11.21
AE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
1. Primip layer and filler brick base VTMB P ①					
963.98 m ³ @ 2092.45/m ³					2017083.~
2. Primip Construction granular sub base G-11 VTMB P ②					
157.14 m ³ @ 1524.76/m ³					239538.~
					Rs 2256521.~
Add 14. Loko cost				+1%	22565.~
Add 12% GST				+1%	270795.~
Add 10% Signature fee					
Brick Base					
1157.10 m ³ @ 1032.77/m ³				+1%	1,19402.~
Cost G-11					
26.5 mm @ 9.5 mm					
20.40 x 604.91 + 10%				+1%	4258.~
9.5 mm @ 2.76 mm					
50.28 m ³ @ 514.58/m ³				+1%	2586.~
Local cost					
80.46 m ³ @ 141.85/m ³				+1%	1141.~
					Rs 2677270.~

Continuation

15.11.21
SE

15.11.21
AE

26.11.2021
CC

Inspection Report for Flood Damage Work

Date :- 30.11.2021

Name of PIU :- EE RWD Khargpur - Tarapur

Name of Block/ Road :- Barahiga / To 4 Kamurpur - Pali

A. For Road

1. Damage Location/ Chainage :- 1000M to 2276.10 M
2. Damage Length :- 1.276 KM
3. Nature of Damage :- Road crust badly damaged Resulting in Breach.
4. Details of Restoration Works :- Brick Batz, GSB Goli
(i) Material being in Restoration works :- Brick Batz & GSB Goli
(ii) Equipment's /Tools being used in Restoration works :- JCB, Tractor, Rollers
(iii) Procedure take up in Restoration works :- Fill up with Brick Batz and GSB Goli layer wise
(iv) Restored Length :- 1.276 KM

B. For Bridge :-

1. Damage Location/ Chainage :-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration Works :-
(i) Material being in Restoration works :-
(ii) Equipment's /Tools being used in Restoration works :-
(iii) Procedure take up in Restoration works :-
(iv) Restored Length :-


30/11/2021

Signature
(Name of Inspection)