



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Surajgarha	
TOTAL LENGTH OF ROAD	:	12.802 8.002	KM
TOTAL COST	:	7.264	Lac
AVERAGE COST PER KM	:	0.908	Lac
TOTAL COST OF PROJECT	:	7.264	Lac

Submitted By:
Executive Engineer
RWD WORKS DIVISION
Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD : NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

DISTRICT Lakhisarai

BLOCK Surajgarha

DIVISION Lakhisarai

LENGTH OF ROAD (in Km) ~~8.002~~ 12.802

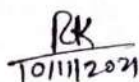
CD STRUCTURES

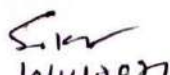
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	EARTHWORK / SAND / MOORUM FILLING	4.388
2	Brick Bat Filling	0.000
3	GSB GR-II	1.927
	SUB TOTAL	6.315
	LABOUR CESS 1% of cost	0.063
	GST 12 % of cost	0.758
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.128
	TOTAL	7.264
	TOTAL COST OF PROJECT IN LACS =	7.264

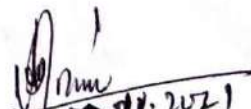
Deduct Contractor profit 9.1%

Rs. - 0.661

Total: 6.603 lakh


10/11/2021
JE
RWD


10/11/2021
AE
RWD


10.11.2021
EE
RWD

T.S Amount

Construction Cost : Rs. 7.264 lakh

Deduct Contractor profit 9.1%. Rs -0.661 lakh

Total. Rs. 6.603 lakh

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

Technically Sanctioned for Rs. 6.603 lakh

(Rupees Six Lakh Sixty thousand three hundred) Only.

for construction work & 5 Years Maintenance


Superintending Engineer
Rural Works Department
Works Circle, Munger


20/09/2022

स्थल निरीक्षण प्रतिवेदन

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

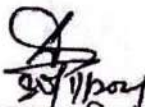
पथ का नाम :- NH-80 सूर्यगढ़ा से कोयलवा बरबसवा बिन्द टोली

पथ की लम्बाई :-12.802 कि०मी०

प्राक्कलित राशि :-7.264 / - 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 मोटरेबुल 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


30/11/2021
कार्यपालक अभियंता
ग्रा०का०वि०, कार्य प्रमं०
खड़गपुर-तारापुर

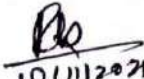
तकनीकी प्रतिवेदन

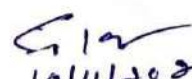
पथ का नाम :- NH-80 सूर्यगढ़ा से कोयलवा बरबसवा बिन्द टोली

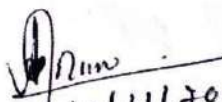
पथ की लम्बाई :-12.802 कि०मी०

प्राक्कलित राशि :-7.264/- लाख

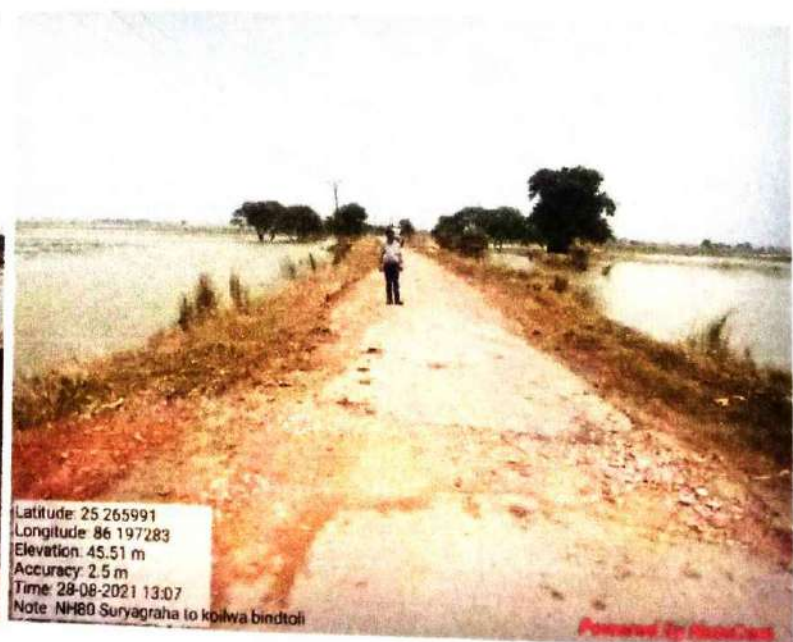
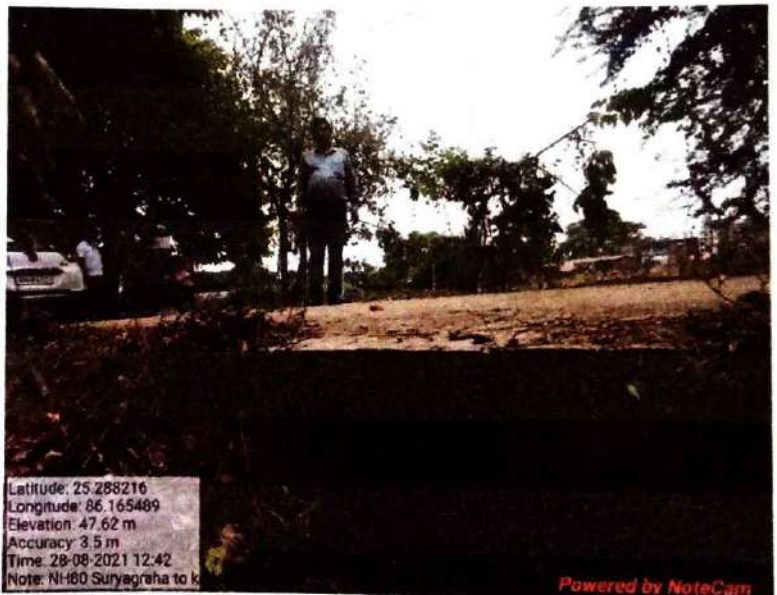
उपर्युक्त पथ को मोटरेबुल करने हेतु मरम्मति का प्राक्कलन, माह अगस्त 2021 में हुई भारी बारिश एवं बाढ़ से पथ कई दिनों तक पथ पानी में डूबा हुआ था एवं बाढ़ का पानी बहाव होने से बड़े-बड़े आकार का Pot holes बन गया था, एवं पथ में कटाव भी हो गया था। उक्त पथ लखीसराय जिला के सूर्यगढ़ा प्रखण्ड में पड़ता है। बाढ़ 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 Moorum 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।


10/11/2021
कनीय अभियंता

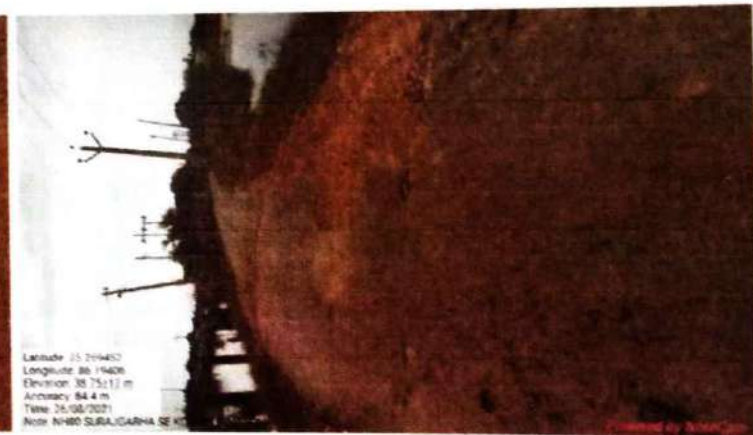

10/11/2021
सहायक अभियंता


10/11/2021
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, लखीसराय।

NH-80 Surajgarha To Koyalwa Brbaswa Bind Toli



NH-80 Surajgarha To Koyalwa Brbaswa Bind Toli



NH-80 Surajgarha To Koyalwa Brbaswa Bind Toli



NH-80 Surajgarha To Koyalwa Brbaswa Bind Toli



Name of Road:- NH-80, Surajgarha To Koyalwa Barbaswa Bind Toli

Sl. No.	SDB SL NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1		1100	Type B (First Class) Bedding								
			Laying (First Class) bedding on well compacted sand, moorum or approved granular material as per Clause 1105 (ii)								
			Qty as per Measurement	cum					354.23		
			Net Qty						354.23	1,238.78	4,38,815.00
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					118.09		
			Net GSB Qty						118.09	1,631.91	1,92,712.00
										TOTAL =	6,31,527.00

JE
RWD

10/11/2007
AE
RWD

10.11.2021
EE
RWD

Pot Measurement Moorum

Name of Road:- NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
15	2	1.5	0.45	20.25
8	1.5	1	0.45	5.4
2nd Km.				
10	1.5	1	0.45	6.75
6	1.2	1.1	0.45	3.56
3rd Km.				
1	50	3.75	0.45	84.38
5	8	3.75	0.45	67.5
5	3	3.75	0.45	25.31
4	2.5	3.75	0.45	16.88
8	4	3	0.45	43.2
4th Km.				
2	8	3.75	0.45	27
2	6	3.75	0.45	20.25
4	5	3.75	0.45	33.75
Total				354.23

RK
10/11/2021
J-E

S-12
10/11/2021
AG

10/11/2021

Pot Measurement GSB Gr-II

Name of Road:- NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
15	2	1.5	0.15	6.75
8	1.5	1	0.15	1.8
2nd Km.				
10	1.5	1	0.15	2.25
6	1.2	1.1	0.15	1.19
3rd Km.				
1	50	3.75	0.15	28.13
5	8	3.75	0.15	22.5
5	3	3.75	0.15	8.44
4	2.5	3.75	0.15	5.63
8	4	3	0.15	14.4
4th Km.				
2	8	3.75	0.15	9
2	6	3.75	0.15	6.75
4	5	3.75	0.15	11.25
Total				118.09

[Signature]
10/11/2021
S.E

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10/11/2021
A/E

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10/11/2021

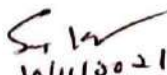
Name of Road :-

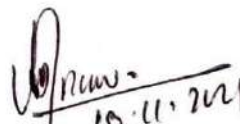
NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

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	52.90	604.91	32002.35	3200.24
GSB 9.5-2.36	m3	37.79	514.58	19445.36	1944.54
Local sand	m3	60.46	141.85	8576.55	857.65
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
Coarse sand/ Moorum	m3	425.08	159.97	67999.41	6799.94
Brick Bats	m3	0.00	1032.00	0.00	0.00
				128023.67	12802.37


10/11/2021
JE


10/11/2021
AE


10.11.2021
EE

Name of Road

NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

Sl. No.	Description	Unit	Quantity	Material Analysis (Minor Mines)																	
				Earth	GSB 53-9.5	GSB 26.5-9.5	GSB 9.5-2.36	Local sand	Agg-63-45 G2	Screening B	Mooru m	53-22.4 G3	Agg 13.2 mm	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	agg 10	Stone Aggs	Coarse sand/Mooru m	cement
1	Brick Bat filling	m3	0.00																		0.00
2	GSB Grading II	m3	118.09			52.904	37.79	60.46													
3	Type B (First Class) Bedding	m3	354.23																425.08		
				0.00	0.00	52.90	37.79	60.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	425.08	0.00	0.00

10/11/2021
I.E

10/11/2021
A.E

10/11/2021
E.E

Analysis for Carriage by Road & Rail

Name of Road:--

NH-80 Surajgarha To Koyalwa Barbaswa Bind Toli

District:-

Lakhisarai

Block :- Surajgarha

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	$\frac{8.00}{4.59} \times 7.94 \times 59.00 \text{ Km} = \text{Rs } 816.49$	$\frac{8.00}{4.59} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$				210.23		Rs. 1026.72	
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94 \times 59.00 \text{ Km} = \text{Rs } 751.04$	$\frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$				210.23		Rs. 961.27	
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94 \times 20.00 \text{ Km} = \text{Rs } 254.59$	$\frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$				210.23	1358.11	Rs. 1822.93	
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94 \times 59.00 \text{ Km} = \text{Rs } 780.77$	$\frac{8.00}{4.80} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$				210.23		Rs. 991.00	
5	Coarse Sand	Cum	Kiul River	$\frac{8.00}{4.99} \times 7.94 \times 55.00 \text{ Km} = \text{Rs } 700.12$	$\frac{8.00}{4.99} \times 19.23 \times 1.00 \text{ Km} = \text{Rs } 30.83$				113.70		Rs. 844.65	
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.94 \times 59.00 \text{ Km} = \text{Rs } 624.61$	$\frac{8.00}{6.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$				113.70		Rs. 738.31	
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.94 \times 2.00 \text{ Km} = \text{Rs } 25.46$	$\frac{8.00}{4.99} \times 19.23 \times 1.00 \text{ Km} = \text{Rs } 30.83$				113.70		Rs. 169.99	
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.94 \times 7.00 \text{ Km} = \text{Rs } 222.32$	$\frac{8.00}{2.00} \times 19.23 \times 1.00 \text{ Km} = \text{Rs } 76.92$				477.52		Rs. 776.76	
9	Brick Bat	Cum	Local								Rs. 1032.00	

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

* Subjected to Verification of Lead

10/11/2021

JE
RWD

10/11/2021

AE
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)

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 210.23

(i)	Total	"A"	=	Rs 261.15
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Mirzachawki Railway Yard to Kiul Railway Yard = 157.00 Km

Railway freight charge from Mirzachawki Railway	=	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		For 1 MT		=	5%	=	Rs 15.81
Railway Terminal Charge Rs 40/- Per Tonne Per		For 1 MT	2	x	Rs 40.00	=	Rs 80.00
Sub-Total	=	For 1 MT		=		=	Rs 449.84
Add GST 1%							Rs 0.00
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 210.23
Carriage Cost from Quarry to Kiul Railway Yard				
(i) + (ii) + (iii)	=	For 1 cum	=	Rs 261.15 + Rs 886.73 + Rs 210.23 = 1358.11

Schedule XLV-Form No. 134

~~Re~~ Surajgarh

NH 80 to Koyalpur Barbuswa Bind
TO 41

DIVISION

Surajgarh

SUB-DIVISION

MEASUREMENT BOOK

685-

Name to work ---
 Situation of work ---
 Agency by which work is executed ---
 Date of measurement ---
 No. and date of agreement ---
 (These four lines should be repeated at the commencement of the measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W: Plot-12 table of ROAD					
from NH 80 Survey to					
Koyalpur Bazar side Bnd					
Toti ^{ad sup} 2021					
Agency - Departmental					
Block - Shajapur					
Date -					
26.5- P/V Movable in part					

1st 7 Road side					
N	m	m	m	m	213
15	2m	1.5	45		20.25
18th	8	1.5	1m	45	5.40
2nd 14	10	1.5	1	45	6.75
	6	1.2	1.1	45	3.56
3rd 16					
	1x	5m	3.75	45	84.38
	5x	8m	3.75	45	67.50
	5x	3m	3.75	45	25.31
	4x	2.5	3.75	45	16.88
	8	4m	3	45	43.2
4/15	2x	8m	3.75	45	27
	2x	6m	3.75	45	20.25
	4	5m	3.75	45	33.75

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Answer Road for motor of road for N.H. Survey to Kalyan Barbasur Binf 1/2 dup Road 2024					
(1) Land measurement in part Hole Road					
P2 = 354.23 m					4388.1
E 1238.70					?
2. PIV Granular Subsoil well graded sand uniform and compact					
Asphalt					
P2 = 118.09 m					
E 1631.91					192712
3. SF					631527
14. Lanes					6315
12. 45					75783
3 SF 1/4. On Mahul					
P2 = 2651091525290m					3200
E 604.91					
915N to 2.36 = 37.79					1945
E 514.50					
Local Area					858
60.46					

Continuation

, 0.

Bel. ALV Form 11a, 1944

Particulars

Quantity of material

Location of material

Fig.

L.

B.

C.

1/19/44

Notes 1/19/44

(1) 129.33 lb 4 64.11

12/12/44

2, 054.08 (1) 64.11

1, 660.37 lb

Re

1/19/44

1511/284
3 E

1511/284
A.E.

✓ 1511/284
E.E.

Inspection Report for Flood Damage Work

Date :- 30.11.2021

Name of PIU :- EERN D Kharappa Tarapur

Name of Block/ Road :- Surganhs / NH 80 Surga Gathe to Royalwa Barabhadra
Brid Toll

A. For Road

1. Damage Location/ Chainage :-
2. Damage Length :- 0.600
3. Nature of Damage :- crust damaged badly
4. Details of Restoration Works :- fill up of moorum, 6803 60 II
- (i) Material being in Restoration works :- moorum, 6803 60 II
- (ii) Equipment's /Tools being used in Restoration works :- JCB, Tractor, Roller
- (iii) Procedure take up in Restoration works :- fill up of moorum and 6803 60 II
- (iv) Restored Length :- layer wise

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 :-

अभि संतोषजनक पाया ।

30/11/2021

Signature
(Name of Inspection)