



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

NH-80 - Shokha via Balgudar, Ram Nya & Amhara
NH-80 Balgudar Amhara To Jhakhar Path

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Lakhisarai	
TOTAL LENGTH OF ROAD	:	6.009 = 6.78	KM
TOTAL COST	:	13.693	Lac
AVERAGE COST PER KM	:	2.279	Lac
TOTAL COST OF PROJECT	:	13.693	Lac

Submitted By:

Executive Engineer

RWD WORKS DIVISION

Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD :

NH-80 Jharkar via Balgudar, Ram Nagar Amhara
~~NH-80 Balgudar Amhara To Jharkhar Path~~

DISTRICT

Lakhisarai

BLOCK

Lakhisarai

DIVISION

Lakhisarai

LENGTH OF ROAD (in Km)

~~6.009~~ 6.78

CD STRUCTURES

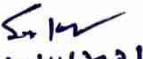
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	EARTHWORK / SAND / MOORUM FILLING	4.842
2	GSB GR-II	6.979
	SUB TOTAL	11.821
	LABOUR CESS 1% of cost	0.118
	GST 12 % of cost	1.418
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.336
	TOTAL	13.693
	TOTAL COST OF PROJECT IN LACS =	13.693

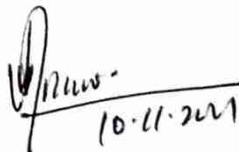
Deduct Contractor Profit 9.1%.

- 1.246 lakh

Total = Rs. 12.447 lak


10/11/2021
JE
RWD


10/11/2021
AE
RWD


10.11.2021.
EE
RWD

T.S Amount

Construction Cost: Rs. 13.693 lakh

Deduct Contractor profit 9.1%. Rs. - 1.246 lakh

Total = Rs. 12.447 lakh

Ref. E.E. Letter No.
Technically Sanctioned for Rs.
(Rupees)
Only.
for construction work & 5 Years Maintenance

Ref. E.E. Letter No. 548 dt. 18.4.2022
Technically Sanctioned for Rs. 12.447 lakh
(Rupees Twelve lakh Forty
Four thousand seven hundred) Only.
for construction work & 5 Years Maintenance

Superintending
Rural Works Department
Works Circle, Munger

20/04/22

स्थल निरीक्षण प्रतिवेदन

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

पथ का नाम :- NH-80 झाखर भाया बालगुदर रामनगर अमहरा

पथ की लम्बाई :- 6.780 कि०मी०

प्राक्कलित राशि :- 13.693/- 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।

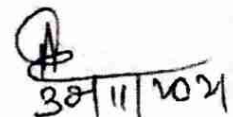
उक्त पथ के निरीक्षण के दौरान पाया गया कि पथ में बने बड़े गड्ढों में Moorum से भरकर उसके उपर G.S.B. (Gr.II) (जगह-जगह 200mm एवं 150mm मुटाई में) डालकर सम्पीडन का कार्य कराया गया है, जिसका शत प्रतिशत जाँच किया गया है, एवं उक्त पथ के प्राक्कलन एवं मापीपुस्त में दर्ज की गई मापी को कार्य स्थल के अनुसार पाया।



सहायक अभियंता

ग्रा०का०वि०, कार्य प्रमं०

खड़गपुर-तारापुर



कार्यपालक अभियंता

ग्रा०का०वि०, कार्य प्रमं०

खड़गपुर-तारापुर

तकनीकी प्रतिवेदन

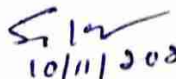
पथ का नाम :- NH-80 झाखर भाया बालगुदर रामनगर अमहरा

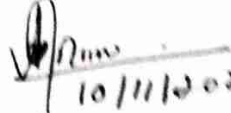
पथ की लम्बाई :- 6.780 कि०मी०

प्राक्कलित राशि :- 13.693/- 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 लखीसराय 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 Balgudar Amhara To Jhakar Path



NH-80 Balgudar Amhara To Jhakhar Path



Latitude: 25.181456
Longitude: 85.047803
Altitude: 43.645 m
Accuracy: 30.0 m
Time: 2021-11-20 11:54
Loc: NH-80 Jhakhar to Balgudar

Name of Road:-	NH-80 Balgudar Amhara To Jhakhar Path
1. Name of the Road	NH-80 Balgudar Amhara To Jhakhar Path
2. Length of the Road	1.5 Km
3. Width of the Road	12 Feet
4. Material of the Road	Gravel
5. Status of the Road	Under Construction
6. Estimated Cost of the Road	Rs. 100 Lakhs
7. Source of Funds	Government of India
8. Name of the Engineer	Mr. J. K. Singh
9. Date of Completion	2025
10. Remarks	The road is under construction and is expected to be completed by 2025.

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					479.34		
			Net Qty						479.34	1,010.11	4,84,187.00
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					479.34		
			Net GSB Qty						479.34	1,455.93	6,97,885.00
										TOTAL =	11,82,072.00

JE
RWD

10/11/2021
AE
RWD

10-11-2024
EE
RWD

Pot Measurement Moorum

Name of Road:- NH-80 Balgudar Amhara To Jhakhar Path

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
1	6	3	0.15	2.7
2	10	3.75	0.15	11.25
5	5	3.75	0.15	14.06
1	20	3.75	0.15	11.25
3	10	3.75	0.15	16.88
5	10	2	0.15	15
10	10	1.75	0.15	26.25
5	10	3	0.15	22.5
3	10	3.75	0.15	16.88
3	15	3.75	0.15	25.31
10	5	3.75	0.15	28.13
2	10	3.75	0.15	11.25
3	10	3	0.15	13.5
2nd Km.				
10	5	3.75	0.15	28.13
5	10	3.75	0.15	28.13
5	10	3	0.15	22.5
4	15	3.75	0.15	33.75
4th Km.				
3	15	3.75	0.15	25.31
5	10	3.75	0.15	28.13
5th Km.				
17	5	3.75	0.15	47.81
3	15	3.75	0.15	25.31
6th Km.				
3	15	3.75	0.15	25.31
Total				479.34

P.K.
10/11/2021
J.E

S. K.
10/11/2021
M2

M. S.
10/11/2021

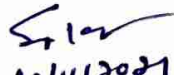
Name of Road :-

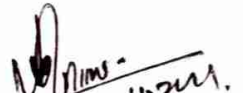
NH-80 Balgudar Amhara To Jhakhar Path

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	214.74	604.91	129900.99	12990.10
GSB 9.5-2.36	m3	153.39	514.58	78930.81	7893.08
Local sand	m3	245.42	141.85	34813.12	3481.31
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	575.21	159.97	92016.02	9201.60
Brick Bats	m3	0.00	1032.00	0.00	0.00
				335660.94	33566.09


10/11/2021
JE


10/11/2021
AE


10-11-2021
BE

Name of Road

NH-80 Balgudar Amhara To Jhakhar Path

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	Agg 13.2-4.75 mm	agg 9.5-4.75	agg 4.75 below	agg 40-20	agg 10-5	Stone Agg spall	Coarse sand Medium	cement
1	Brck Bat filling	m3	0.00																0.00
2	GSB Grading II	m3	479.34			214.74	153.4	245.42											
3	Type B (First Class) Bedding	m3	479.34														575.21		
				0.00	0.00	214.74	153.39	245.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	575.21	0.00	0.00

[Signature]
10/11/2021
J.E.

[Signature]
10/11/2021
A.E.

[Signature]
10/11/2021
J.E.

Analysis for Carriage by Road & Rail

Name of Road:- NH-80 Balgudar Amhara To Jhakhar Path

District:- Lakhisarai Block :- Lakhisarai

District:- Lakhsisarai			Lakhsisarai			Carriage Cost & Lead in Km					Loading & Unloading Cost	Carriage Cost by Rail Head	Total
Sl No	Item with Source	Unit	Source Up to	Pucka / Surface		Katcha							
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.94$	$\times 41.00 \text{ Km} = \text{Rs } 567.39$	$\frac{8.00}{4.59}$	$\times 19.23$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$		210.23		Rs. 777.62	
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 41.00 \text{ Km} = \text{Rs } 521.91$	$\frac{8.00}{4.99}$	$\times 19.23$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$		210.23		Rs. 732.14	
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 15.00 \text{ Km} = \text{Rs } 190.94$	$\frac{8.00}{4.99}$	$\times 19.23$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$		210.23	1358.11	Rs. 1759.28	
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94$	$\times 41.00 \text{ Km} = \text{Rs } 542.57$	$\frac{8.00}{4.80}$	$\times 19.23$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$		210.23		Rs. 752.80	
5	Coarse Sand	Cum	Kiul River	$\frac{8.00}{4.99} \times 7.94$	$\times 35.00 \text{ Km} = \text{Rs } 445.53$	$\frac{8.00}{4.99}$	$\times 19.23$	$\times 1.00 \text{ Km} = \text{Rs } 30.83$		113.70		Rs. 590.06	
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.94$	$\times 41.00 \text{ Km} = \text{Rs } 434.05$	$\frac{8.00}{6.00}$	$\times 19.23$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$		113.70		Rs. 547.75	
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	

* 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

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)

Pukka / 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

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

FDR

NH-80 544162 Harbor **DIVISION**

42 FAIR 121

SUB-DIVISION

CHL / 012124

MEASUREMENT BOOK

1

1

1999

1

1

Run 113 Run 113

Run date	Delays & actual measurement				Cumulative area
	ms	1/2	1/4	1/8	
0.5					13
	1/2	1/2	1/2	1/2	28.1
	1/2	1/2	1/2	1/2	28.1
	1/2	1/2	1/2	1/2	28.1
	1/2	1/2	1/2	1/2	28.1
1/2	1/2	1/2	1/2	1/2	28.1
	1/2	1/2	1/2	1/2	28.1
5/2	1/2	1/2	1/2	1/2	28.1
	1/2	1/2	1/2	1/2	28.1
6/2	1/2	1/2	1/2	1/2	28.1
					479.344

2/5 - All large spray catchup
Eggs in bottle of m

No	m	m	m	ms
1	6m	2m	1/5	2.709
2	10m	2.7/5	1/5	11.28
5	5m	2.7/5	1/5	16.16
1/2	20m	3.7	1/5	11.28
3/2	10m	2.7/5	1/5	16.16
5	10m	2.7	1/5	16.16
10	10m	1.7/5	1/5	2.709
5	10m	1.7/5	1/5	2.709
15	10m	3.7/5	1/5	16.16
10	10m	3.7/5	1/5	16.16

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	no	m	m	m	13
	10	5	3.75	1.5	$= 28.13$
	2	10	3.25	1.5	$= 11.25$
	3	10	3	1.5	$= 13.5$
26m	10	5	3.75	1.5	$= 28.13$
	5	10	3.75	1.5	$= 28.13$
	4	15	3.75	1.5	$= 33.75$
	5	10	3	1.5	$= 22.5$
4/15	3	15	3.75	1.5	$= 25.3$
	5	10	3.75	1.5	$= 28.1$
5/15	17	5	3.75	1.5	$= 47.8$
	3	15	3.75	1.5	$= 25.3$
6m	3	15	3.75	1.5	$= 25.3$
					479.34

14/11/2021
 J.E.
 5.12
 14/11/2021
 A.E.

9.85 $\times$ 2.15 $\times$ 9.15 m $= 214.74$ m²

9.15 $\times$ 2.34 m $= 153.39$ m²

Local sand $= 245.42$ m²

1/102 m $= 575.24$ m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of Cont. of Maharastra of 1000 NW 1/4 Sec. 10 Amhara to Maharastra change dup flood oct 2021.					
1) PW Moonchip in front Hd of road					
	P1 = 479.34m				484187
				1010.11/4	
2. PW Long Spring Camp 8800 in 1/4 1/4 Sec road 1000					
	P3 = 479.34m				
				1455.93/4	697885
				1182072	
	11.6m			11821	
	124.951			141849	
				1335742	
114.5F					
	24.5 to 91.5 = 4.474m				12990
				604121/5	
	91.5 to 2136 = 15.33245				7898
				514158/5	
	Local road 24.542m			191.85/5	3481
	Moew 57.521m			159.97/5	9202
					1369808

Continuation

Inspection Report for Flood Damage Work

Date :- 30.11.2021

Name of PIU :- E.E. RWD Kharagpur Tarapur

Name of Block/ Road :- Lakhisarai/ NH 80 - Jharkhand is Balpudari Karmachari
Amhara

A. For Road

1. Damage Location/ Chainage :- ch 4100 m to 4300 m, ch 5100 to 5500, ch 6000 to 6100
2. Damage Length :- 0.700 km
3. Nature of Damage :- crust damaged
4. Details of Restoration Works :- medium fill, GSB G+1 fill
(i) Material being in Restoration works :- medium, GSB G+1
(ii) Equipment's /Tools being used in Restoration works :- JCB, Trencher, Roller
(iii) Procedure take up in Restoration works :- fill up of medium, GSB G+1 fill in
(iv) Restored Length :- 0.700 km layer with compaction

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 :-

श्री संतोषजनक पाथा

30/11/2021

Signature

(Name of Inspection)