



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

Pratappur To Anjanighat (Residual Part)

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Barahiya	
TOTAL LENGTH OF ROAD	:	2.000	KM
PART-A TOTAL COST OF RESTORATION	:	9.810	Lac
TOTAL COST OF PROJECT	:	9.810	Lac

Submitted By:
Executive Engineer
RWD WORKS DIVISION
Lakhisarai

स्थल निरीक्षण प्रतिवेदन

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

पथ का नाम :- प्रतापपुर (शेष भाग) से अंजनीघाट

पथ की लम्बाई :- 2.000 कि०मी०

प्राक्कलित राशि :- 9.810/- 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।


21/11/2021
सहायक अभियंता
ग्रा०का०वि०, कार्य प्रमं०
खड़गपुर-तारापुर


21/11/2021
कार्यपालक अभियंता
ग्रा०का०वि०, कार्य प्रमं०
खड़गपुर-तारापुर

तकनीकी प्रतिवेदन

पथ का नाम :- प्रतापपुर (शेष भाग) से अंजनीघाट

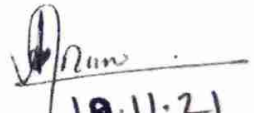
पथ की लम्बाई :- 2.000 कि०मी०

प्राक्कलित राशि :- 9.810/- 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।

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD :

~~HH-20~~ Pratappur To Anjanighat (Residual Part)

DISTRICT

Lakhisarai

BLOCK

Barahiya

DIVISION

Lakhisarai

LENGTH OF ROAD (in Km)

2.000

CD STRUCTURES

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	GSB GR-II	8.426
	SUB TOTAL OF Restoration	8.426
	LABOUR CESS 1% of cost	0.084
	GST 12 % of cost	1.011
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.288
	TOTAL OF Restoration	9.810
	TOTAL COST OF PROJECT IN LACS =	9.810

Deduct Contractor Profit 9.1%. = - 0.892 lakh

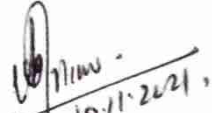
Total = 8.918 lakh



JE
RWD

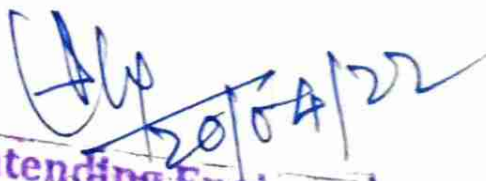


AE
RWD


10/11/2021
EE
RWD

T.S Amount
Construction Cost: Rs. 9.810 Lakh
Deduct Contractor Profit 9.1% = Rs. 0.892 Lakh
Total = Rs. 8.918 Lakh

Ref. E.E. Letter No. 548 dt. 18.4.2022
Technically Sanctioned for Rs. 8.918 Lakh
(Rupees Eight lakh ninety one
thousand eight hundred) Only.
for construction work & 5 Years Maintenance


20/04/22
Superintending Engineer
Rural Works Department
Works Circle, Munger
20/04/2022

NH-80 Pratappur To Anjanighat (Resedual Part)



NH-80 Pratappur To Anjanighat (Resedual Part)



NH-80 Pratappur To Anjanighat (Resedual Part)



Name of Road:- NH-80 Pratappur To Anjanighat (Resedual Part)

Sl. No.	SDB SL. NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (In Rs.)
1	4.1	401 (ii)	Granular Sub-base with Well Graded Material (Table 400.1) 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											
Net GSB Qty											
									567.33		
									567.33	1,485.26	8,42,633.00
TOTAL =										8,42,633.00	
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=										8,42,633.00	


JE
8/11/24
RWD


AE
8/11/24
RWD


ER
10/11/2021
RWD

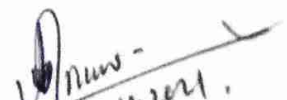
Pot Measurement GSB Gr-II

Name of Road:- NH-80 Pratappur To Anjanighat (Resedual Part)

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
4	5	1.5	0.15	4.5
1	20	2.5	0.15	7.5
4	2.2	2	0.15	2.64
1	6	1.5	0.15	1.35
1	30	3.75	0.15	16.88
1	20	3.75	0.15	11.25
2	30	3.75	0.15	33.75
1	30	3.75	0.15	16.88
1	30	3.75	0.15	16.88
1	20	1.5	0.15	4.5
3	30	3.75	0.15	50.63
5	5	1.8	0.15	6.75
5	2	1.5	0.15	2.25
2	3	2	0.15	1.8
1	20	1.8	0.15	5.4
1	15	3.75	0.2	11.25
4	2	2	0.15	2.4
6	2.2	2	0.15	3.96
1	3	3.75	0.15	1.69
2	2	2	0.15	1.2
4	2	2	0.15	2.4
2nd Km.				
1	40	3.75	0.2	30
1	30	3.75	0.15	16.88
1	20	3.75	0.15	11.25
1	10	3.75	0.15	5.63
5	2	2	0.15	3
1	25	3.75	0.15	14.06
1	30	1.875	0.15	8.44
5	2.5	1.5	0.15	2.81
1	20	3.75	0.15	11.25
1	10	3.75	0.15	5.63
5	2	2	0.15	3
1	25	3.75	0.15	14.06
6	2	1.5	0.15	2.7
5	1.5	2.1	0.15	2.36
10	30	3.75	0.2	225
2	10	1.8	0.15	5.4
Total				567.33


8/11/21
JE


8.11.21
AE


Survey -
10.11.2021

Name of Road :-

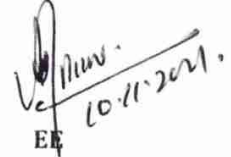
NH-80 Pratappur To Anjanighat (Residual Part)

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	254.16	604.91	153746.25	15374.62
GSB 9.5-2.36	m3	181.55	514.58	93419.73	9341.97
Local sand	m3	290.47	141.85	41203.59	4120.36
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	0.00	1032.00	0.00	0.00
				288369.57	28836.96


JE


AE

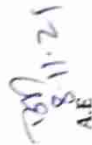

EE 10.11.2021

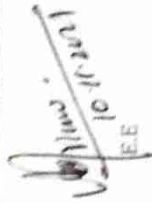
Name of Road

NH-80 Pratappur To Anjanighat (Residual Part)

Sl. No.	Description	Unit	Quantity	Material Analysis (Minor Mixes)																		
				Earth	GSB 53-9.5	GSB 26.5-9.5	GSB 9.5-2.36	Local sand	Agg 63-45 G2	Screening B	Moorm	53-22.4 G3	Agg 13.2-4.75 mm	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	agg 10	Stone	stone spalls	Coarse sand	cement
1	GSB Grading II	m3	567.33			254.2	181.5	290.47														
				0.00	0.00	254.16	181.55	290.47	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


I.E. S. M. 1/24


A.E. 8.11.21


E.E. 10.10.2021

Analysis for Carriage by Road & Rail

Name of Road:-- NH-80 Pratappur To Anjanighat (Residual Part)

District:--

Lakhisarai

Block :- Barahiya

Sl No	Item with Source	Unit	Source Up to	Pucka / Surface		Carriage Cost & Lead in Km		Katcha		Loading & Unloading Cost	Carriage Cost by Rail Head	Total
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00 4.59	x 7.94	x 44.00 Km	= Rs 608.91	8.00 4.59	x 19.23 x 0.00 Km	= Rs 0.00	210.23	Rs 819.14
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	8.00 4.99	x 7.94	x 44.00 Km	= Rs 560.10	8.00 4.99	x 19.23 x 0.00 Km	= Rs 0.00	210.23	Rs 770.33
3	Stone Aggregate / Chips	Cum	Sheikhpura	8.00 4.99	x 7.94	x 22.00 Km	= Rs 280.05	8.00 4.99	x 19.23 x 0.00 Km	= Rs 0.00	210.23	Rs 1848.39
4	Stone Boulder	Cum	Sheikhpura	8.00 4.80	x 7.94	x 44.00 Km	= Rs 582.27	8.00 4.80	x 19.23 x 0.00 Km	= Rs 0.00	210.23	Rs 792.50
5	Coarse Sand	Cum	Kiul River	8.00 4.99	x 7.94	x 31.00 Km	= Rs 394.61	8.00 4.99	x 19.23 x 1.00 Km	= Rs 30.83	113.70	Rs 539.14
6	Binding Material/Moorum	Cum	Sheikhpura	8.00 6.00	x 7.94	x 44.00 Km	= Rs 465.81	8.00 6.00	x 19.23 x 0.00 Km	= Rs 0.00	113.70	Rs 579.51
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 21.00 Km	= Rs 166.74	8.00 8.00	x 19.23 x 0.00 Km	= Rs 0.00	316.10	Rs 482.84
10	Steel	MT	Local	8.00 8.00	x 7.94	x 21.00 Km	= Rs 166.74	8.00 8.00	x 19.23 x 0.00 Km	= Rs 0.00	337.28	Rs 504.02
11	Bitumen Emulsion	MT	Barauni	8.00 8.00	x 7.94	x 92.00 Km	= Rs 730.48	8.00 8.00	x 19.23 x 0.00 Km	= Rs 0.00	361.31	Rs 1091.79
12	Bitumen	MT	Barauni	8.00 8.00	x 7.94	x 92.00 Km	= Rs 730.48	8.00 8.00	x 19.23 x 0.00 Km	= Rs 0.00	361.31	Rs 1091.79
13	Hume Pipe (1000 mm)	m	Lakhisarai	8.00 10.00	x 7.94	x 27.00 Km	= Rs 171.50	8.00 10.00	x 19.23 x 0.00 Km	= Rs 0.00	81.88	Rs 253.38
14	Hume Pipe (600 mm)	m	Lakhisarai	8.00 25.00	x 7.94	x 27.00 Km	= Rs 68.60	8.00 25.00	x 19.23 x 0.00 Km	= Rs 0.00	35.09	Rs 103.69
15	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


JE
8/11/21
RWD


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

Mirzachawki Railway Yard to Kiul Railway Yard = 157.00 Km

Railway freight charge from Mirzachawki 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		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
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

N/H - Motorable road from NH 80
Patalpura to Arjani Ghat (Residual Part)
Laxmi Garin

DIVISION

Barabati

SUB-DIVISION

MEASUREMENT BOOK

699

Both

Friday 17 Nov 1887

Accepted

1

 δ

5

16 44

434

5065

215

719

149

240

1172

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2. 19. 1946.

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Continuation
 $2710.20 \times 1.80 \times 0.15 = 5.40$

Ch. 1

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

ABSTRACT OF LIT

1. Princip 2 fillp GSB
 1. Gr II

VTMRP (2)

567.33 m³ (1435.26) m³ 842633.

Add 14. Cal + GRS + 14 8426.00

Add 124 GRT + 13 10116.00

Add 107. Saigrioreje fee

GSB Gr II

26.5 mm to 9.5 mm

254.16 m² 604 917107 + 14 15375.00

9.5 mm to 2.36 mm

181.55 m² 514.587107 + 13 9342.00

Local sand

290.43 + 141.85 + 107. + 13 4120.00

14 9.81012.00

15-11-24
SE

15-11-24
AB

CPD

15-11-24
15-11-24