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ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

NH-80 Pratappur To Anjar Sarai

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Barahiya	
TOTAL LENGTH OF ROAD	:	8.528 8.50	KM
PART-A TOTAL COST OF RESTORATION	:	22.409	Lac
AVERAGE COST PER KM	:	2.630	Lac
TOTAL COST OF PROJECT	:	22.409	Lac

Submitted By:

Executive Engineer

RWD WORKS DIVISION

Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD : ~~NH-80~~ Pratappur To Anjanighat

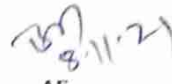
DISTRICT Lakhisarai
BLOCK Barahiya
DIVISION Lakhisarai
LENGTH OF ROAD (in Km) 8.50
CD STRUCTURES

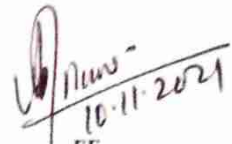
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	GSB GR-II	19.248
	SUB TOTAL	19.248
	LABOUR CESS 1% of cost	0.192
	GST 12 % of cost	2.310
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.659
	TOTAL	22.409
	TOTAL COST OF PROJECT IN LACS =	22.409

Deduct Contractor Profit 9.1% = 2.039 Lakh

Total = 20.37 Lakh


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T.S. Approval

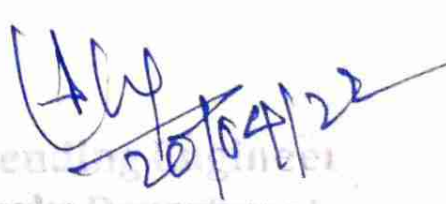
Construction Cost: Rs. 22.409 Lakh
deducting Contractor profit 9.1% = - Rs. 2.039 Lakh
Total = Rs. 20.37 Lakh

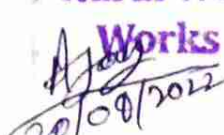
Ref. E.E. Letter No. 548 dt. 18.4.2022

Technically Sanctioned for Rs. 20.37 Lakh

(Rupees Twenty Lakh thirty
Seven thousand) Only.

for construction work & 5 Years Maintenance


Superintendent Engineer
Rural Works Department
Works Circle, Munger


20/04/2022

स्थल निरीक्षण प्रतिवेदन

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

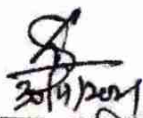
पथ का नाम :- प्रतापपुर से अंजनीघाट पथ

पथ की लम्बाई :- 8.500 कि०मी०

प्राक्कलित राशि :- 22.409/- 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।

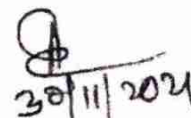
उक्त पथ के निरीक्षण के दौरान पाया गया कि पथ में बने बड़े गड्ढों में Moorum से भरकर उसके उपर G.S.B. (Gr.II) (जगह-जगह 200mm एवं 150mm मुटाई में) डालकर सम्पीडन का कार्य कराया गया है, जिसका शत प्रतिशत जाँच किया गया है, एवं उक्त पथ के प्राक्कलन एवं मापीपुस्त में दर्ज की गई मापी को कार्य स्थल के अनुसार पाया।



सहायक अभियंता

ग्रा०का०वि०, कार्य प्रमं०

खड़गपुर-तारापुर



कार्यपालक अभियंता

ग्रा०का०वि०, कार्य प्रमं०

खड़गपुर-तारापुर

तकनीकी प्रतिवेदन

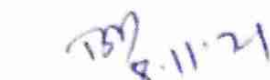
प्रतापपुर से अंजनीघाट पथ

8.500 कि०मी०

22.409/- लाख

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


8.11.21
अभियंता


8.11.21
सहायक अभियंता


10.11.21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, लखीसराय।

NH-80 Pratappur To Anjanighat



NH-80 Pratappur To Anjanighat



NH-80 Pratappur To Anjanighat



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					1,295.95		
Net GSB Qty									1,295.95	1,485.26	19,24,823.00
TOTAL =										19,24,823.00	
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=										19,24,823.00	

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Pot Measurement GSB Gr-II

Name of Road:- NH-80 Pratappur To Anjanighat

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
2nd Km.				
1	10	3.75	0.2	7.5
5	2	2	0.2	4
2	8	2.5	0.2	8
5	3	2	0.2	6
8	2	3	0.2	9.6
5	1	1	0.2	1
1	5	2	0.2	2
3	4	1.5	0.2	3.6
7	2.5	2	0.2	7
3	1	1	0.2	0.6
1	10	1.5	0.2	3
8	2	2	0.2	6.4
1	20	3.75	0.2	15
7	1.5	1.5	0.2	3.15
8	1	1	0.2	1.6
1	15	3	0.2	9
1	8	1.5	0.2	2.4
1	15	4	0.2	12
1	50	3.75	0.2	37.5
5	3	2.5	0.2	7.5
1	30	3.75	0.2	22.5
3	3	1	0.2	1.8
1	10	2.5	0.2	5
9	2.5	2	0.2	9
5	3	4.5	0.2	13.5
3	30	4.2	0.2	75.6
4	2.2	2	0.2	3.52
1	4.2	2.1	0.2	1.76
1	30	3.75	0.2	22.5
1	40	3.75	0.2	30
7	1.5	1.5	0.2	3.15
8	1	1	0.2	1.6
1	15	3	0.2	9
1	8	1.5	0.2	2.4
1	15	4	0.2	12
1	50	3.75	0.2	37.5

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10-11-2021

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
5	3	2.5	0.2	7.5
1	30	3.75	0.2	22.5
3	30	3.75	0.2	67.5
3	30	1.5	0.2	27
1	30	3.75	0.2	22.5
3	3	1	0.2	1.8
1	10	2.5	0.2	5
9	2.5	2	0.2	9
5	3	4.5	0.2	13.5
3	30	4.2	0.2	75.6
4	2.2	2	0.2	3.52
1	5	2.8	0.2	2.8
1	700	3.75	0.2	525
4	11	6	0.2	52.8

Total

1295.95

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Name of Road :-

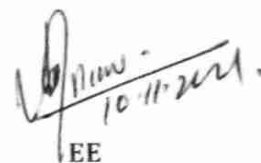
NH-80 Pratappur To Anjanighat

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	580.59	604.91	351202.04	35120.20
GSB 9.5-2.36	m3	414.70	514.58	213398.38	21339.84
Local sand	m3	663.53	141.85	94121.22	9412.12
Stone chipping 9.5	m3	0.00	668.80	0.00	0.00
stone spalls	m3	0.00	355.68	0.00	0.00
Coarse sand	m3	0.00	175.80	0.00	0.00
				658721.64	65872.16


JE


AE


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Name of Road

NH-80 Pratappur To Anjanighat

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	Stone chipping 9.5	agg 4.75 below	agg 40	agg 20	agg 10	Stone Agg	stone spalls	Coarse sand	cement
1	Construction of Embankment	m3	0.00	0.00																		
2	GSB Grading II	m3	1295.95			580.6	414.7	663.53														
				0.00	0.00	580.59	414.70	663.53	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


J.E.


A.E.


J.E.
10/11/21

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

Analysis for Carriage by Road & Rail

Name of Road:- NH-80 Pratappur To Anjanighat

District:- Lakhisarai

Block :- Barahiya

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha	Loading & Unloading Cost		
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 RWD
8.11.21

AE RWD
8.11.21

10.11.2021
RWD

Schedule XLV-Form No. 134

Motorable road. from M1480 Road App. to

Anjani G. 22

Lachinani

DIVISION

Branch

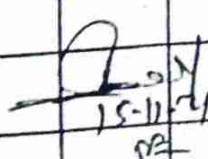
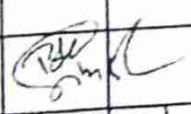
SUB-DIVISION

MEASUREMENT BOOK

-679

Particulars	Details of actual measurement				Content area
	No.	L.	B.	D.	
7	2.50	2.00	70.2	= 7.00	
3	1.00	1.00	70.2	= 0.60	
1	10.00	2.50	70.2	= 3.00	
8	2.00	2.00	70.2	= 6.40	
1	20.00	3.75	70.2	= 15.00	
7	1.50	1.50	70.20	= 3.150	
8	1.00	1.00	70.20	= 1.60	
1	15.00	3.00	70.20	= 9.00	
1	8.00	1.50	70.20	= 2.40	
1	15.00	4.00	70.2	= 12.00	
1	30.00	3.75	70.2	= 22.50	
1	20.00	3.75	70.2	= 15.00	
5	3.00	2.50	70.2	= 7.50	

1	30.00	3.75	70.2	= 22.50
3	3.00	1.00	70.2	= 1.80
1	10.00	2.50	70.2	= 5.00
9	3.50	2.00	70.2	= 9.00
5	3.00	4.50	70.2	= 13.50
3	30.00	4.00	70.2	= 75.60
4	2.20	2.00	70.2	= 3.52
1	4.20	2.00	70.2	= 1.76
1	30.00	3.75	70.2	= 22.50
1	30.00	3.75	70.2	= 22.50
1	20.00	3.75	70.2	= 15.00
7	1.50	1.50	70.2	= 3.150
8	1.00	1.00	70.2	= 1.60
1	15.00	3.00	70.2	= 9.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1715.00	7.4.00	7.2			12.00
1730.00	7.3.75	7.2			22.50
1720.00	7.3.75	7.2			15.00
573.00	7.2.50	7.0.2			7.50
1730.00	7.3.75	7.0.2			22.50
3730.00	7.3.75	7.0.2			67.50
3730.00	7.1.50	7.0.2			27.00
1730.00	7.3.75	7.0.2			22.50
373.00	7.1.00	7.0.2			1.80
1710.00	7.2.50	7.0.2			5.00
972.50	7.2.00	7.0.2			9.00
573.00	7.4.5	7.0.2			13.50
3730.00	7.4.8X	0.2			75.60
472.20	7.2.00	7.0.2			3.52
175.00	7.2.80	7.0.2			2.80
23730.00	7.3.75	7.2			317.50
1710.00	7.3.75	7.2			7.50
4711.00	7.6.00	7.2			52.80
					1295.95m ²
					
15.11.21					15.11.21
SR					AE

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

ABSTRACT OF COST

1/ Prindip granular

Sub base 6x11 m

Prty hole

V.M.R.P. ③

1295.95 m³ @ Rs 1485.26/m³ = 1924823.16

Add 1% labor cost = 19248.23

Add 12% GST = 230979.18

Add 10% Seigniorage fee

Cost 6x11

26.5 m to 9.5 m

580.59 m³ x 604.91 x 10% = 35120.00

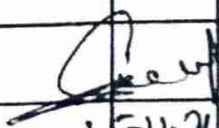
9.5 m to 2.36 m

414.70 m³ x 514.58 x 10% = 21340.00

Local Seal

663.53 x 141.85 x 10% = 9412.00

Rs 224092.18


15-11-21
J.B.

15-11-21
A.E.

C.R.P.