

16



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

Ratnopur To Pawai Railway Halt

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Surajgarha	
TOTAL LENGTH OF ROAD	:	2.089-2.877	KM
TOTAL COST	:	5.673	Lac
AVERAGE COST PER KM	:	2.716	Lac
TOTAL COST OF PROJECT	:	5.673	Lac

Submitted By:
Executive Engineer
RWD WORKS DIVISION
Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD : Ratnopur To Pawai Railway Halt

DISTRICT Lakhisarai

BLOCK Surajgarha

DIVISION Lakhisarai

LENGTH OF ROAD (in Km) ~~2.089~~ 2.877

CD STRUCTURES

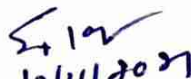
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	EARTHWORK / SAND / MOORUM FILLING	2.061
2	GSB GR-II	2.844
	SUB TOTAL	4.905
	LABOUR CESS 1% of cost	0.049
	GST 12 % of cost	0.589
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.130
	TOTAL	5.673
	TOTAL COST OF PROJECT IN LACS =	5.673

Deduct Contractor profit 9.1 %.

= - 0.516 lakh

← Total = 5.157 lakh


10/11/2021
JE
RWD


10/11/2021
AE
RWD


10.11.2021
EE
RWD

T.S Amount

Construction Cost: Rs. 5.673 lakh

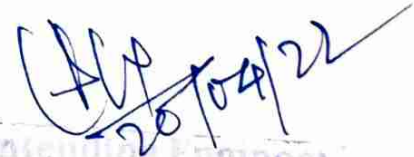
Deduct Contractor profit 9.1% : Rs. -0.516 lakh

Total: Rs. 5.157 lakh

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

Technically Sanctioned for Rs. 5.157 lakh

(Rupees Five Lakh Fifteen
thousand Seven 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 :- रतनुपुर से पवई रेलवे हॉल्ट

पथ की लम्बाई :- 2.877 कि०मी०

प्राक्कलित राशि :- 5.673/- लाख

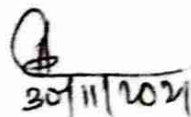
अधीक्षण अभियंता, ग्रामीण कार्य विभाग, कार्य अंचल, मुंगेर के पत्रांक 1182 दिनांक 16.11.2021 द्वारा प्राप्त निदेश के अनुपालन में आज दिनांक 21.11.2021 को ग्रामीण कार्य विभाग, कार्य प्रमंडल, लखीसराय के अधीन बाढ़ से क्षतिग्रस्त पथ का निरीक्षण सहायक अभियंता श्री लौडिक प्रसाद राय के साथ वर्ष 2021-22 में बाढ़ 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

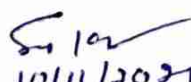
पथ का नाम :- रतनुपुर से पवई रेलवे हॉल्ट

पथ की लम्बाई :- 2.877 कि०मी०

प्राक्कलित राशि :- 5.673/- 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 पिपरिया 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।

Ratnopur To Pawai Railway Halt



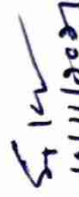
Ratnapur To Pawai Railway Halt



Name of Road:- Ratnopur To Pawai Railway Halt

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					185.40		
2	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.						185.40	1,111.75	2,06,119.00
			Qty as per Measurement	Cum					185.40		
			Net GSB Qty						185.40	1,534.14	2,84,430.00
										TOTAL =	4,90,549.00


JE
RWD


AE
RWD


EE
RWD

Pot Measurement Moorum

Name of Road:- Ratnampur To Pawal Railway Halt

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
3	8	3.75	0.2	18
8	6	3.75	0.2	36
10	5	3	0.2	30
7	8	3	0.2	33.6
4	7	3	0.2	16.8
10	4	3	0.2	24
12	4.5	2.5	0.2	27
Total				185.40

P&V
10/11/2021
J.E

S. L. V.
10/11/2021
A.E

W. S. S.
10-11-2021.

Pot Measurement GSB Gr-II

Name of Road:- Ratnपुर To Pawai Railway Halt

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
3	8	3.75	0.2	18
8	6	3.75	0.2	36
10	5	3	0.2	30
7	8	3	0.2	33.6
4	7	3	0.2	16.8
10	4	3	0.2	24
12	4.5	2.5	0.2	27

Total

185.40

PR
10/11/2021
J.E

S. 102
10/11/2021
AF2

U. 1111
10.11.2021.

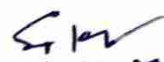
Name of Road :-

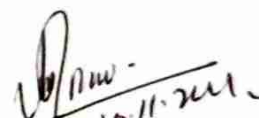
Ratnopur To Pawai Railway Halt

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	83.06	604.91	50243.34	5024.33
GSB 9.5-2.36	m3	59.33	514.58	30529.00	3052.90
Local sand	m3	94.92	141.85	13465.08	1346.51
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	222.48	159.97	35590.13	3559.01
Brick Bats	m3	0.00	1032.00	0.00	0.00
				129827.55	12982.76


10/11/2021
JE


10/11/2021
AE


10.11.2021
EE

Name of Road

Ratnapur To Pawai Railway Halt

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	Moorum	53-22.4 G3	Agg 13.2 ,mm	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	Stone Agg 10	Stone Agg spalls	Coarse sand/Moorum	cement
1	GSB Grading II	m3	185.40			83.059	59.33	94.92													
2	Type B (First Class) Bedding	m3	185.40																222.48		
				0.00	0.00	83.06	59.33	94.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	222.48	0.00	0.00

[Signature]
10/11/2021
J.E

[Signature]
10/11/2021
A.E

[Signature]
10/11/2021
E.E

Analysis for Carriage by Road & Rail

Name of Road:--- Ratnपुर To Pawai Railway Halt

District:- Lakhisarai Block :- Surajgarha

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km				Carriage Cost by Rail Head	Loading & Unloading Cost	Total *
				Pucka / Surface	Katcha					
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.94$	$\times 49.00$ Km	=	Rs 678.10	$\frac{8.00}{4.59} \times 19.23 \times 0.00$ Km	= Rs 0.00	Rs. 888.33
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 49.00$ Km	=	Rs 623.74	$\frac{8.00}{4.99} \times 19.23 \times 0.00$ Km	= Rs 0.00	Rs. 833.97
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 44.00$ Km	=	Rs 560.10	$\frac{8.00}{4.99} \times 19.23 \times 0.00$ Km	= Rs 0.00	Rs. 2128.44
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94$	$\times 49.00$ Km	=	Rs 648.43	$\frac{8.00}{4.80} \times 19.23 \times 0.00$ Km	= Rs 0.00	Rs. 858.66
5	Coarse Sand	Cum	Kiul River	$\frac{8.00}{4.99} \times 7.94$	$\times 42.00$ Km	=	Rs 534.64	$\frac{8.00}{4.99} \times 19.23 \times 1.00$ Km	= Rs 30.83	Rs. 679.17
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.94$	$\times 49.00$ Km	=	Rs 518.75	$\frac{8.00}{6.00} \times 19.23 \times 0.00$ Km	= Rs 0.00	Rs. 632.45
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.94$	$\times 2.00$ Km	=	Rs 25.46	$\frac{8.00}{4.99} \times 19.23 \times 1.00$ Km	= Rs 30.83	Rs. 169.99
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.94$	$\times 7.00$ Km	=	Rs 222.32	$\frac{8.00}{2.00} \times 19.23 \times 1.00$ Km	= Rs 76.92	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

R.D.
10/11/2021
JE
RWD

Sir 12
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)

Pucca / 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 Seasion 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. 124

Pa. County
Lebanon to Fairview

DIVISION

1315 rel

SUB-DIVISION

MEASUREMENT BOOK

684

(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				Circumference of area
	No.	L.	B.	D.	
N/W: Motionable of Road from Ratnapur to Pawai Railway Halt.					
Block Surveyor's					
Agency: Departmental					
Date:					
2 nd item: P/V motion filling in for hole up Road at Ratnapur					
3 x 8m x 3.75m x 120m = 18 m ³					

8 x 6m x 3.75m x 120m = 36 m ³	
10 x 5m x 3m x 120m = 30 m ³	
7 x 8m x 3m x 120m = 33.6 m ³	
4 x 7m x 3m x 120m = 16.8 m ³	
10 x 4m x 3m x 120m = 24 m ³	
12 x 4.5m x 2.5m x 20m = 27 m ³	
185.40 m ³	

2 nd item: P/V lay & spread of area	
Est. of area of P/V	
3 x 8m x 3.75m x 120m = 18 m ³	
8 x 6m x 3.75m x 120m = 36 m ³	
10 x 5m x 3m x 120m = 30 m ³	
7 x 8m x 3m x 120m = 33.6 m ³	

Continuation

117.60 m³

[illegible]

Addressed by C. C. to Watson
of Road from Ketchikan to
Pondok, and way back
in the morning of 13th

1)	FD	Notwendig	folgt
----	----	-----------	-------

Port Foley Lead
be specific

$\Delta t_{\text{P1}} = 18.540 \text{ ms}$

C 111-75/4 : 206119

2. Carbon & hydrogen can be by absorption

Graduated Series

upper layers and turbidity

with 5 in 15 wheel roller

to achieve its end

PH 2 = 185.40 m

① 1534.1 $\frac{1}{4}$ s 284430

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					AT-8490547~
Add 1% loss					= 4905 ~
12% 857					= 18 58866 =
S.E. 883	26.5	9.5			5543202(4)
S.B.					= 83.0615 @ 604.91 / y 250243
9.5 to 2.36					59.3315 @ 514.58 / 4 = 30529-
Local SW					94.924 @ 141.85 / 3 = 13465-
Moon					222.48 @ 159.97 / 4 = 35590-
					129827 x .10 = 12983 -
A+B ~					567303 ~
deduct 9.09 Kef (-)					51568 -
					B 515736 = W
Rd 14/11/2024 J'E					Sr ✓ 14/11/2024 AG
					Nur 15/11/2024. E.E.

Inspection Report for Flood Damage Work

Date :- 30-11-2021

Name of PIU :- EBRWD Kharagpur - Tanafor

Name of Block/ Road :- Suriyagarha / Ratanpur to Pawai Railway Halt

A. For Road

1. Damage Location/ Chainage :- ^{ch} 1200 m to 1500 m
2. Damage Length :- 0.300 km
3. Nature of Damage :- crust damaged
4. Details of Restoration Works :- medium fillip, GSB G_{0.5} fillip
 - (i) Material being in Restoration works :- medium, GSB G_{0.5}
 - (ii) Equipment's /Tools being used in Restoration works :- JCB, Tractor, Roller
 - (iii) Procedure take up in Restoration works :- medium fillip & GSB G_{0.5} Fillip layer
 - (iv) Restored Length :- 0.300 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)