



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

Pratap Pur Sadai Bigha
T04 To Sadai Bigha (Pratap Pur)

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Barahiya	
TOTAL LENGTH OF ROAD	:	8 4.060 3.25	KM
PART-A TOTAL COST OF RESTORATION	:	12.155	Lac
TOTAL COST OF PROJECT	:	12.155	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 :- T04_ प्रतापपुर से सदायबिगहा

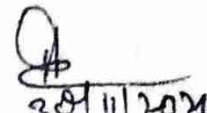
पथ की लम्बाई :- 3.250 कि०मी०

प्राक्कलित राशि :- 12.155/- 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 प्रमंडल, 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

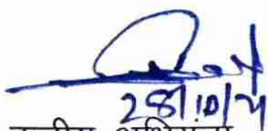
तकनीकी प्रतिवेदन

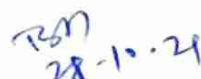
पथ का नाम :- T04_ प्रतापपुर से सदायबिगहा

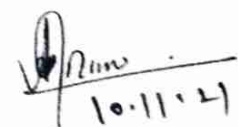
पथ की लम्बाई :- 3.250 कि०मी०

प्राक्कलित राशि :- 12.155 / - 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 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।


28/10/21
कनीय अभियंता


28-10-21
सहायक अभियंता


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

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD :

T04 ~~Sadaibigha (Pratappur)~~ *Pratap pur Sadaibigha*

DISTRICT

Lakhisarai

BLOCK

Barahiya

DIVISION

Lakhisarai

LENGTH OF ROAD (in Km)

4.060

CD STRUCTURES

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	Type B (First Class) Bedding	5.733
2	GSB GR-II	4.795
	SUB TOTAL OF Restoration	10.528
	LABOUR CESS 1% of cost	0.105
	GST 12 % of cost	1.263
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.258
	TOTAL OF Restoration	12.155
	TOTAL COST OF PROJECT IN LACS =	12.155

Deduct Contractors profit 9.1% = - 1.106 Lakh

Total = Rs. 11.049 Lakh

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28/10/2021
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10/11/2021
RWD

T.S Amount

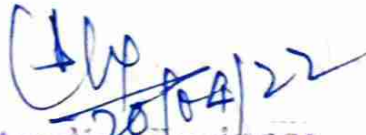
Construction Cost: Rs. 12.155 lakh
Deduct Contractor Profit 9.1% = Rs. 1.106 lakh

Total = Rs. 11.049 lakh

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

Technically Sanctioned for Rs. 11.049 lakh

(Rupees Eleven Lakh Four
thousand nine hundred) Only.
for construction work & 5 Years Maintenance


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


20/04/2022

Sl. No.	SDB SL. NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS											
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					524.14		
									524.14	1,093.81	5,73,308.00
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					310.55		
			Net GSB Qty						310.55	1,543.92	4,79,464.00
										TOTAL =	10,52,772.00
			TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=								10,52,772.00

P.K.
25/10/2021

JE
RWD

P.K.
25.10.21

AE
RWD

P.K.
10.11.2021

EE
RWD

Pot Measurement GSB Gr-II

Name of Road:- T04 To Sadaibigha (Pratappur)

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1	15	2	0.15	4.5
1	11	2.5	0.15	4.13
1	22	1.75	0.15	5.78
5	7	3.75	0.15	19.69
6	8	3	0.15	21.6
4	12	3	0.15	21.6
8	9	3	0.15	32.4
4	11	3.75	0.15	24.75
4	9	3.75	0.15	20.25
6	8	3	0.15	21.6
4	9	3	0.15	16.2
10	6	3	0.15	27
8	8	3	0.15	28.8
18	8	2.88	Total	310.55

248.3

PK
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Pot Measurement Moorum

Name of Road:- T04 To Sadaibigha (Pratappur)

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1	15	2	0.3	9
1	11	2.5	0.45	12.38
1	22	1.75	0.3	11.55
5	7	3.75	0.45	59.06
6	8	3	0.3	43.2
4	12	3	0.3	43.2
8	9	3	0.3	64.8
4	11	3.75	0.2	33
4	9	3.75	0.45	60.75
6	8	3	0.3	43.2
4	9	3	0.3	32.4
10	6	3	0.3	54
8	8	3	0.3	57.6

Total

524.14

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28/10/2024
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28.10.21
AE

Name of Road :-

T04 To Sadaibigha (Pratappur)

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	139.13	604.91	84158.95	8415.90
GSB 9.5-2.36	m3	99.38	514.58	51136.90	5113.69
Local sand	m3	159.00	141.85	22554.38	2255.44
Coarse sand / Moorum	m3	628.97	159.97	100616.01	10061.60
				258466.24	25846.62


28/10/2021
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10.11.2021
EE

Name of Road

T04 To Sadaibigha (Pratappur)

Sl. No.	Description	Unit	Quantity	Material Analysis (Minor Mines)								Stone Aggs	Stone spalls	Coarse sand / Moorum
				Earth	GSB 53-9.5	GSB 26.5-9.5	GSB 9.5-2.36	Local sand	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	agg 10	
2	GSB Grading II	m3	310.55			139.13	99.376	159.00						
11	Type B (First Class) Bedding by Moorum	m3	524.14											628.968
				0.00	0.00	139.13	99.38	159.00	0.00	0.00	0.00	0.00	0.00	628.97

P.R.
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J.E

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A.E

10/11/2024
E/E

Analysis for Carriage by Road & Rail

Name of Road:-- T04 To Sadaibigha (Pratappur)

District:-- Lakhsisarai

Block :- Barahiya

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	$\frac{8.00}{4.59} \times 7.94 \times 50.00 \text{ Km} = \text{Rs } 691.94$	$\frac{8.00}{4.59} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$					210.23	Rs. 902.17	
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94 \times 50.00 \text{ Km} = \text{Rs } 636.47$	$\frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$					210.23	Rs. 846.70	
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94 \times 17.00 \text{ Km} = \text{Rs } 216.40$	$\frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$					210.23	Rs. 1784.74	
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94 \times 50.00 \text{ Km} = \text{Rs } 661.67$	$\frac{8.00}{4.80} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$					210.23	Rs. 871.90	
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	$\frac{8.00}{6.00} \times 7.94 \times 50.00 \text{ Km} = \text{Rs } 529.33$	$\frac{8.00}{6.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$					113.70	Rs. 643.03	
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	

* 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

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10.11.2021
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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
Un-surfaced 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





Latitude: 25.228906
Longitude: 86.030634
Elevation: 50.35±101 m
Accuracy: 3.8 m
Time: 28-08-2021 15:29
Note: ~~CONFIDENTIAL TO GOVERNMENT~~



Latitude: 25.227543
Longitude: 86.030213
Elevation: 42.22±104 m
Accuracy: 4.5 m
Time: 28-08-2021 15:31
Note: ~~CONFIDENTIAL TO GOVERNMENT~~



Name of 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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W: - Moterablo f road					
To 4 to Sadai Bzha damap					
Gap flood road					
Block - Badaliy					
Aggr - Defectment					
Part					
Detail f work - PN 1/100m f road					
in part 1/100m f road					
	No	m	m	m	sq
	1	15	2	30	= 9.15
	1	11	2.15	1.45	= 12.38
	1	22	1.75	1.30	= 11.55
	5	7	3.75	1.45	= 59.06
	6	8	3	30	= 43.20
	4	12	3	1.30	= 43.20
	8	9	3	1.30	= 64.80
	4	11	3.75	1.20	= 33.00
	4	9	3.75	1.45	= 60.75
	6	8	3	1.30	= 43.20
	4	9	3	1.30	= 32.40
	10	6	3	1.30	= 54.00
	8	8	3	1.30	= 57.60
					524.14

Particulars	Details of actual measurements	Quantity of water
	1	2

28

524.111

1 day 2000

34.5 - 144 40 13 - 1.0 11.50

1.0 1.0 1.0 1.0 1.0

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1.0 1.0 1.0 1.0 1.0

310.550

44.5 24.5 13.5 = 139.134

9.5 13.2 3.4 = 79.36

1.0 1.0 1.0 = 1.594

145.0 = 623.7713

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of Cost for work of Road Top to Sadai Bigha under Badahya Road					
1) P/V Mooring fill in for Hole of road					
		$R = 324.14 \text{ M}$			
				$C 1073.81/6 = 5573.90$	
2) P/V Lay down of R/SB in for Hole of road					
		$R = 316.85 \text{ M}$			
				$C 1543.94 = 4774.61$	
				$B 1052772 = 0$	
		17 Lads		$10528 =$	
		12×451		$126333 =$	
Add					
		$Q 30 26.56915 = 13.91345$		$= 8416 =$	
				$C 60491/6$	
		$Q 30 9.570236 = 9.93545$		$= 5114 =$	
				$C 514.58/6$	
		$\text{Local sand} = 15.90 \text{ M}^3$		$C 141.85/6 = 2255$	
		$\text{Moon} 62.897 \text{ M}^3$		$= 10662 =$	
				$C 159.97/6$	
				$B 1215480 =$	
		9.09×10		$110487 =$	
				$B 1104993 =$	

Inspection Report for Flood Damage Work

Date :- 30.11.2021

Name of PIU :- EE RWD Kharagpur Tarapur

Name of Block/ Road :- Laxmiserai / To 4 Pralap Pur to Sadai Bigha

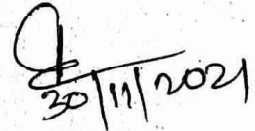
A. For Road

1. Damage Location/ Chainage :- 2000 to 2371 m
2. Damage Length :- 0.371 km
3. Nature of Damage :- WBM (or II) Damaged
4. Details of Restoration Works :- medium fill up, GSB GSI fill up
- (i) Material being in Restoration works :- medium, GSB, GSI
- (ii) Equipment's /Tools being used in Restoration works :- JCB, Tractor, Roller
- (iii) Procedure take up in Restoration works :- Fill up of medium & GSB GSI in layer wise
- (iv) Restored Length :- 0.371 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 :-


(आर्य संतोषजनक पात्रा)


30/11/2021

Signature
(Name of Inspection)