



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

Ramchandrapur Aliwali To Prakhanda Mukhyalaya *Pipariya*

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Pipariya	
TOTAL LENGTH OF ROAD	:	3.150	KM
TOTAL COST	:	4.107	Lac
AVERAGE COST PER KM	:	1.304	Lac
TOTAL COST OF PROJECT	:	4.107	Lac

Submitted By:

Executive Engineer

RWD WORKS DIVISION

Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD :

Ramchandrapur Aliwali To Prakhand Mukhyalaya

Pipariya

DISTRICT

Lakhisarai

BLOCK

Pipariya

DIVISION

Lakhisarai

LENGTH OF ROAD (in Km)

3.150

CD STRUCTURES

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	EARTHWORK / SAND FILLING	0.000
2	Brick Bat Filling	0.188
3	GSB GR-II	3.337
	SUB TOTAL	3.526
	LABOUR CESS 1% of cost	0.035
	GST 12 % of cost	0.423
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.123
	TOTAL	4.107
	TOTAL COST OF PROJECT IN LACS =	4.107

Deduct Contractor profit 9.1%.

=

-0.374 lakh

Total: 3.733 lakh

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10.11.2021

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T. S Amount

Construction Cost : Rs. 4.107 lakh
Deduct Contractor profit Rs - 0.374 lakh

Total = Rs. 3.733 lakh

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

Technically Sanctioned for Rs. 3.733 lakh

(Rupees Three lakh Seventy
three thousand three hundred only
for construction work & 5 Years Maintenance)

ACy
26/04/22
Superintending Engineer
Rural Works Department
Works Circle, Munger

26/04/2022

स्थल निरीक्षण प्रतिवेदन

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

पथ का नाम :- रामचन्द्रपुर से आलीवाली पथ से ब्लॉक मुख्यालय पिपरिया

पथ की लम्बाई :- 3.150 कि०मी०

प्राक्कलित राशि :- 4.107 / - 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


30.11.2021
कार्यपालक अभियंता
ग्रा०का०वि०, कार्य प्रमं०
खड़गपुर-तारापुर

तकनीकी प्रतिवेदन

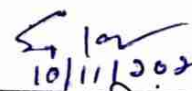
पथ का नाम :- रामचन्द्रपुर से आलीवाली पथ से ब्लॉक मुख्यालय पिपरिया

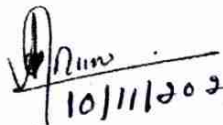
पथ की लम्बाई :- 3.150 कि०मी०

प्राक्कलित राशि :- 4.107 / - 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 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
8/11/21

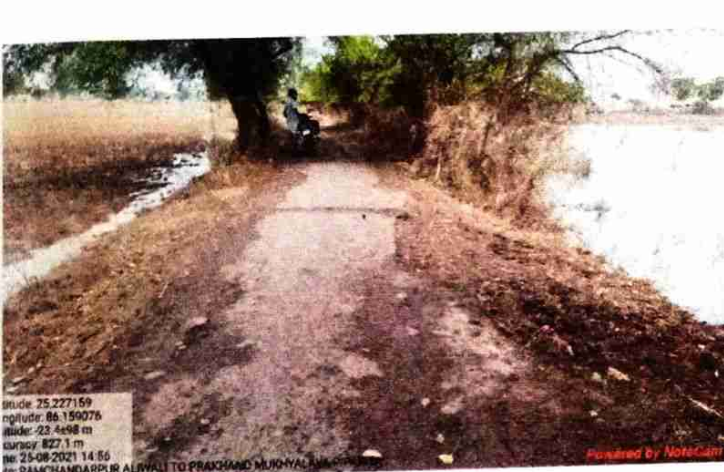
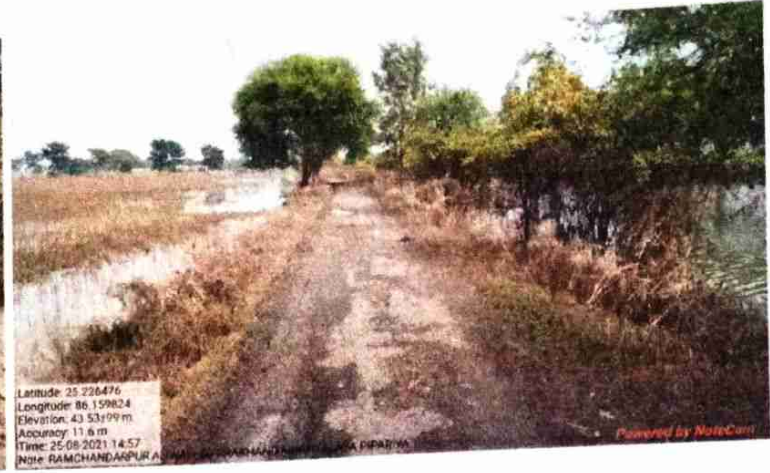

सहायक अभियंता
10/11/2021


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, लखीसराय।

Ramchandrapur Aliwali To Prakhand Mukhyalaya



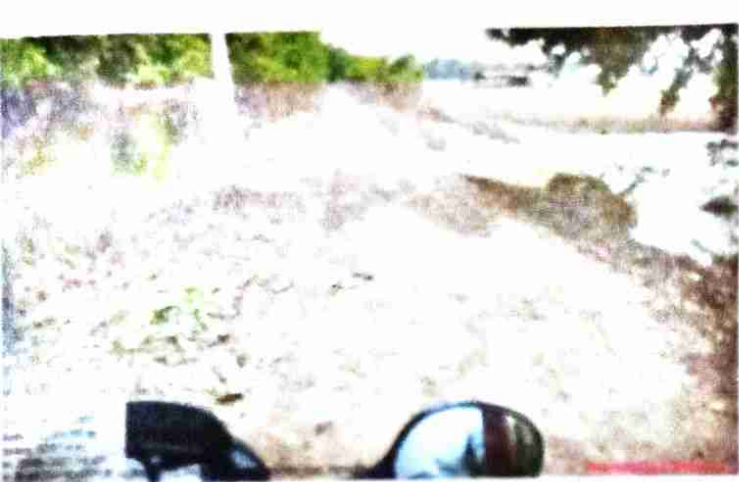
Ramchandrapur Aliwali To Prakhand Mukhyalaya



Ramchandrapur Aliwali To Prakhand Mukhyalaya



Ramchandrapur Aliwali To Prakhand Mukhyalaya



Ramchandrapur Aliwali To Prakhand Mukhyalaya



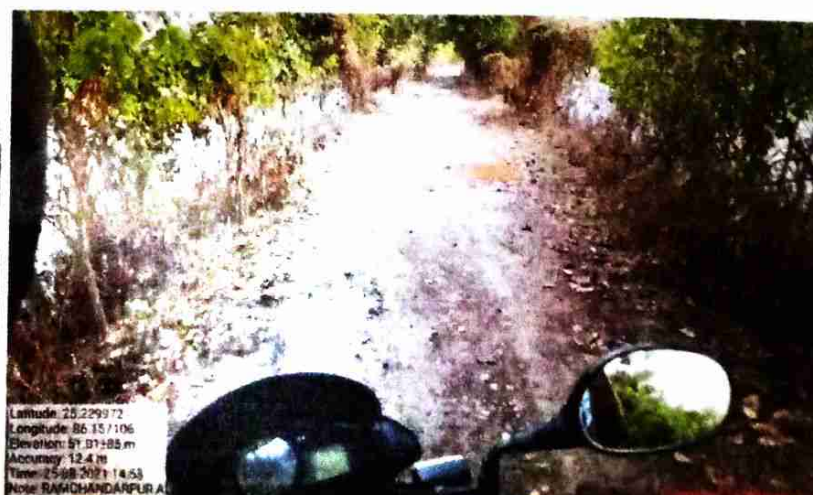
Ramchandrapur Aliwali To Prakhand Mukhyalaya



Ramchandrapur Aliwali To Prakhand Mukhyalaya



Ramchandrapur Aliwali To Prakhand Mukhyalaya



Ramchandrapur Aliwali To Prakhand Mukhyalaya



Name of Road:- Ramchandrapur Aliwali To Prakhand Mukhyalaya

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			Brick BAT Filling								
			Emergent Repair by Filling Brick Bats in Flood damaged Stretch of the Road for making it Motorableas per S/D of E/I								
			Qty as per Measurement	cum					9.00		
			Net Qty						9.00	2,092.45	18,832.00
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					218.93		
			Net GSB Qty						218.93	1,524.36	3,33,728.00
TOTAL =										3,52,560.00	
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=										3,52,560.00	


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Pot Measurement GSB Gr-II

Name of Road:- Ramchandrapur Aliwali To Prakhhand Mukhyalaya

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
1	4	2.5	0.2	2
2	5	1	0.2	2
2	5	1	0.2	2
2	10	1	0.2	4
1	30	3	0.2	18
1	15	2.5	0.2	7.5
10	2	2	0.2	8
8	2.5	1.5	0.2	6
1	30	1	0.2	6
2	1.5	1.5	0.2	0.9
1	15	2.5	0.2	7.5
2nd Km.				
6	3	2	0.2	7.2
5	1	1	0.2	1
1	5	2.5	0.2	2.5
1	1.5	1.5	0.2	0.45
10	2	1.5	0.2	6
6	2.5	2	0.2	6
2	2.5	2	0.2	2
1	10	1	0.2	2
1	3	2	0.2	1.2
2	2	1.5	0.2	1.2
1	10	2.5	0.2	5
5	1.5	1	0.2	1.5
10	2	1.5	0.2	6
4	1.5	1.5	0.2	1.8
1	2	1	0.2	0.4
2	1.5	1	0.2	0.6
1	5	1	0.2	1
3	1.5	1.5	0.2	1.35
1	2	1	0.2	0.4
20	2	2	0.2	16
10	1	1	0.2	2
3rd Km.				
5	2	1	0.2	2
5	2	1.5	0.2	3
5	1.5	1.5	0.2	2.25
3	2	1.5	0.2	1.8
1	5	3	0.2	3
6	2.5	2.5	0.2	7.5
2	30	1.25	0.2	15
3	1	1	0.2	0.6
3	3	1	0.2	1.8
8	2	1	0.2	3.2
3	1	1	0.2	0.6

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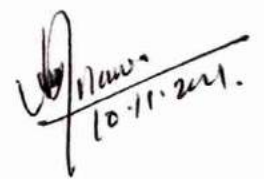
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Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1	8	1.5	0.2	2.4
1	30	1	0.2	6
8	2	1	0.2	3.2
4	1	0.8	0.2	0.64
1	5	2.5	0.2	2.5
1	3	2	0.2	1.2
1	6	3.75	0.2	4.5
2	0.6	0.6	0.2	0.14
1	20	0.8	0.2	3.2
2	1	1	0.2	0.4
4th Km.				
1	2	1	0.2	0.4
1	1	1	0.2	0.2
1	4	2.5	0.2	2
2	1	1	0.2	0.4
1	10	0.8	0.2	1.6
1	5	2.5	0.2	2.5
1	6	3.75	0.2	4.5
1	1	1	0.2	0.2
1	4	2.5	0.2	2
1	6	2	0.2	2.4
5	1	0.8	0.2	0.8
1	10	3.75	0.2	7.5
Total				218.93


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10.11.2021.

Pot Measurement Brick Bats

Name of Road:- Ramchandrapur Aliwali To Prakhanda Mukhyalaya

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
2nd Km.				
1	6	3.75	0.4	9
			Total	9.00


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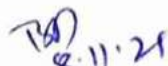
Name of Road :-

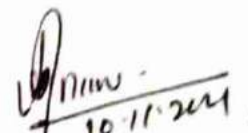
Ramchandrapur Aliwali To Prakhand Mukhyalaya

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	98.08	604.91	59329.96	5933.00
GSB 9.5-2.36	m3	70.06	514.58	36050.24	3605.02
Local sand	m3	112.09	141.85	15900.27	1590.03
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	m3	0.00	200.80	0.00	0.00
Brick Bats	m3	11.00	1032.00	11352.00	1135.20
				122632.47	12263.25


JE 8/11/24
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10-11-2024
EE

Name of Road

Material Analysis (Minor Mines)

12.11.8
A.F.

Valluvil

Analysis for Carriage by Road & Rail

Name of Road:- Ramchandrapur Aliwali To Prakhanda Mukhyalaya

District:- Lakhisarai

Block :- Barahiya

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface						
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.94$	$\times 48.00$	Km	$\frac{8.00}{4.59} \times 19.23$	$\times 0.00$	Km	Rs 874.49
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 48.00$	Km	$\frac{8.00}{4.99} \times 19.23$	$\times 0.00$	Km	Rs 821.24
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 28.00$	Km	$\frac{8.00}{4.99} \times 19.23$	$\times 0.00$	Km	Rs 1924.76
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94$	$\times 48.00$	Km	$\frac{8.00}{4.80} \times 19.23$	$\times 0.00$	Km	Rs 845.43
5	Coarse Sand	Cum	Kiul River	$\frac{8.00}{4.99} \times 7.94$	$\times 35.00$	Km	$\frac{8.00}{4.99} \times 19.23$	$\times 0.00$	Km	Rs 590.06
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.94$	$\times 48.00$	Km	$\frac{8.00}{6.00} \times 19.23$	$\times 0.00$	Km	Rs 621.86
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.94$	$\times 2.00$	Km	$\frac{8.00}{4.99} \times 19.23$	$\times 0.00$	Km	Rs 169.99
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.94$	$\times 7.00$	Km	$\frac{8.00}{2.00} \times 19.23$	$\times 0.00$	Km	Rs 776.76
9	Cement	MT	Local	$\frac{8.00}{8.00} \times 7.94$	$\times 18.00$	Km	$\frac{8.00}{8.00} \times 19.23$	$\times 0.00$	Km	Rs 459.02
10	Steel	MT	Local	$\frac{8.00}{8.00} \times 7.94$	$\times 18.00$	Km	$\frac{8.00}{8.00} \times 19.23$	$\times 0.00$	Km	Rs 480.20
11	Bitumen Emulsion	MT	Barauni	$\frac{8.00}{8.00} \times 7.94$	$\times 93.00$	Km	$\frac{8.00}{8.00} \times 19.23$	$\times 0.00$	Km	Rs 1099.73
12	Bitumen	MT	Barauni	$\frac{8.00}{8.00} \times 7.94$	$\times 93.00$	Km	$\frac{8.00}{8.00} \times 19.23$	$\times 0.00$	Km	Rs 1099.73
13	Hume Pipe (1000 mm)	m	Lakhisarai	$\frac{8.00}{10.00} \times 7.94$	$\times 29.00$	Km	$\frac{8.00}{10.00} \times 19.23$	$\times 0.00$	Km	Rs 266.09
14	Hume Pipe (600 mm)	m	Lakhisarai	$\frac{8.00}{25.00} \times 7.94$	$\times 29.00$	Km	$\frac{8.00}{25.00} \times 19.23$	$\times 0.00$	Km	Rs 108.77
15	Brick Bat	Cum	Local	$\frac{8.00}{25.00} \times 7.94$	$\times 29.00$	Km	$\frac{8.00}{25.00} \times 19.23$	$\times 0.00$	Km	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

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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
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
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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
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Add 12% Overhead	=	12%	=	Rs 86.37
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Add 10% Contractor Profit	=	10%	=	Rs 80.61
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(ii) Gross Rate for Railway freight Charge	=	For 1 Cum	=	Rs 886.73
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(iii) Loading & Unloading Cost	=	For 1 Cum	=	Rs 210.23
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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
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FDR
Schedule XLV-Form No. 134

*Also - mobile of road from Comancha to
Almire to Perched municipalities Ribaverg*

Carhigari **DIVISION**

Ribaverg **SUB-DIVISION**

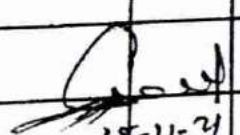
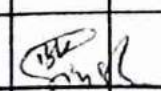
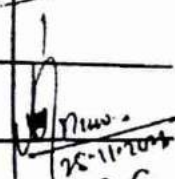
MEASUREMENT BOOK

696

1	7	30.00	7	1.00	7	0.20	=	6.00
2	7	1.50	7	1.50	7	0.20	=	0.90
1	7	15.00	7	2.50	7	0.20	=	7.50
rd km	6	3.00	7	2.00	7	0.20	=	7.20
5	7	1.00	7	1.00	7	0.20	=	1.00
1	7	5.00	7	2.50	7	0.20	=	2.50
1	7	1.50	7	1.50	7	0.20	=	0.450
10	7	2.00	7	1.50	7	0.20	=	6.00
6	7	2.50	7	2.00	7	0.20	=	6.00
2	7	2.50	7	2.00	7	0.20	=	2.00
1	7	10.00	7	1.00	7	0.20	=	2.00
1	7	3.00	7	2.00	7	0.20	=	1.00
1	7	10.00	7	2.50	7	0.20	=	5.00

5	7	15.00	7	1.00	7	0.20	=	1.50
10	7	2.00	7	1.50	7	0.20	=	6.00
4	7	1.50	7	1.50	7	0.20	=	1.80
1	7	2.00	7	1.50	7	0.20	=	0.40
2	7	1.50	7	1.00	7	0.20	=	0.60
1	7	1.00	7	1.00	7	0.20	=	1.00
3	7	1.50	7	1.50	7	0.20	=	1.50
1	7	1.00	7	1.00	7	0.20	=	0.40
30	7	1.00	7	1.00	7	0.20	=	1.00
10	7	1.00	7	1.00	7	0.20	=	0.00
3	7	1.00	7	1.00	7	0.20	=	0.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	25.00	3.00	7.22	3.00
	6	2.50	2.50	7.22	7.50
	2	20.00	1.25	0.2	15.00
	3	3.00	1.00	0.2	1.80
	8	2.00	1.00	0.2	2.20
	3	1.00	1.00	0.2	0.60
	1	8.00	1.50	0.2	2.40
	1	30.00	1.00	0.2	6.00
	8	2.00	1.00	0.2	3.20
	4	1.00	0.80	0.2	0.64
	1	5.00	2.50	0.2	2.50
	1	3.00	2.00	0.2	1.20
	1	6.00	3.75	0.2	4.50
	2	0.600	0.600	0.2	0.14
	1	20.00	0.80	0.2	3.20
	2	1.00	1.00	0.2	0.400
4 ft x m	2	1.00	0.2		0.400
	1	1.00	1.00	0.2	0.200
	1	4.00	2.50	0.2	2.00
	2	1.00	1.00	0.2	0.400
	1	10.00	0.80	0.2	1.60
	1	5.00	2.50	0.2	2.50
	1	6.00	3.75	0.2	4.50
	1	1.00	1.00	0.2	0.20
	1	4.00	2.50	0.2	2.00
	1	6.00	2.00	0.2	2.40

Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
<u>ABSTRACT OF COST</u>						
1 Provision & filling						
COS B G-TT empty						
VT-M-R (3)						
218.93 m ³	1524	36	m ³		3337.28 m	
Add 1% Lab. Cost			+M		3337.28	
212% Cost			+M		4004.72	
10% Seigniorage fee			+M			
COS B G-TT						
26.5 mm to 9.5 mm						
98.08	604	91	10.7	+M	5933.00	
9.5 mm to 2.36 mm						
70.06 m ³	514	58	10.7	+M	7605.00	
Local sand						
112.09 m ³	141	85	10.7	+M	1590.00	
				M	388240.00	
 15-11-21 J.E.  15-11-21 A.E.  25-11-2021 E.E.						

Continuation