



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

ESTIMATE FOR FLOOD DAMAGED REPAIR

Bihar(बिहार)Map



Name of the Road :-

Girdharpur To Ganga Sarai

DISTRICT	:	Lakhisarai	
DIVISION	:	Lakhisarai	
BLOCK	:	Barahiya	
TOTAL LENGTH OF ROAD	:	86 4.000 4.80	KM
TOTAL COST	:	3.436	Lac
AVERAGE COST PER KM	:	0.859	Lac
TOTAL COST OF PROJECT	:	3.436	Lac

Submitted By:

Executive Engineer

RWD WORKS DIVISION

Lakhisarai

ESTIMATE FOR FLOOD DAMAGED REPAIR

NAME OF ROAD :

Girdharpur To Ganga Sarai

DISTRICT

Lakhisarai

BLOCK

Barahiya

DIVISION

Lakhisarai

LENGTH OF ROAD (in Km)

~~4.000~~ 4.80

CD STRUCTURES

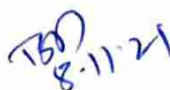
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Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	RESTORATION COST	
1	EARTHWORK / SAND FILLING	0.000
2	Brick Bat Filling	0.000
3	GSB GR-II	2.949
	SUB TOTAL	2.949
	LABOUR CESS 1% of cost	0.029
	GST 12 % of cost	0.354
	SEIGNORAGE FEE @ 10 % on Minor Mines	0.104
	TOTAL	3.436
	TOTAL COST OF PROJECT IN LACS =	3.436

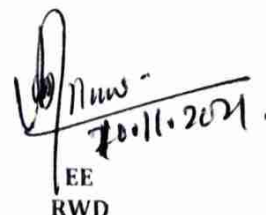
Deduct Contractors Profit 9.1%. = $\frac{3.436 \times 9.1}{100} = 0.313$
Total = 3.123 Lakh



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T.S Amount

Construction Cost : Rs. 3.436 Lakh

Deduct Contractor Profit 9.1% = - 0.313 Lakh

Total Rs. 3.123 Lakh

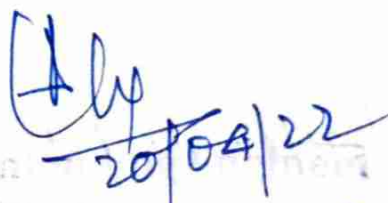
Ref. E.E. Letter No. 548 dt. 18.4.2022

Technically Sanctioned for Rs. 3.123 Lakh

Rupees Three Lakh twelve

thousand three hundred Only

for construction work & 5 Years Maintenance


Superintendent
Rural 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 :- गिरधरपुर से गंगासराय

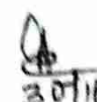
पथ की लम्बाई :- 4.800 कि०मी०

प्राक्कलित राशि :- 3.436 / - 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 शाम 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।


30/11/24
सहायक अभियंता
ग्रा०का०वि०, कार्य प्रमं०
खड़गपुर-तारापुर


30/11/24
कार्यपालक अभियंता
ग्रा०का०वि०, कार्य प्रमं०
खड़गपुर-तारापुर

तकनीकी प्रतिवेदन

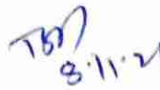
पथ का नाम :- गिरधरपुर से गंगासराय

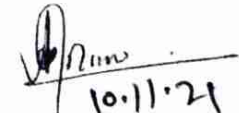
पथ की लम्बाई :- 4.800 कि०मी०

प्राक्कलित राशि :- 3.436 / - 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 मुट्टाई 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।

Girdharpur To Gangasarai



Girdharpur To Gangasari



Girdharpur To Gangasarai



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	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					203.89		
			Net GSB Qty						203.89	1,446.16	2,94,858.00
										TOTAL =	2,94,858.00
										TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=	2,94,858.00

JE
RWD

AE
RWD

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RWD

Pot Measurement GSB Gr-II

Name of Road:- Girdharpur To Ganga Sarai

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1st Km.				
2	1	1	0.15	0.3
3	2	1.5	0.15	1.35
4	1	1.25	0.15	0.75
3	1	0.5	0.15	0.23
2nd Km.				
2	2	1.5	0.15	0.9
2	1.5	1.5	0.15	0.68
1	5	1.5	0.2	1.5
1	6	1.5	0.2	1.8
1	2.5	1	0.15	0.38
2	1	1	0.15	0.3
2	1	1	0.15	0.3
1	2	1.5	0.15	0.45
1	4	1	0.15	0.6
1	1	1	0.15	0.15
1	5	0.5	0.15	0.38
1	10	3	0.2	6
1	1.5	1	0.15	0.23
1	3	1.5	0.15	0.68
1	30	1.8	0.2	10.8
1	5	2	0.2	2
1	1.5	2	0.15	0.45
2	2.5	2	0.15	1.5
3	1	1	0.15	0.45
1	5	1.5	0.15	1.13
1	2	1.5	0.2	0.6
3	1.5	1	0.15	0.68
2	2	1.5	0.15	0.9
2	1	1	0.15	0.3
3	0.5	0.5	0.15	0.11
1	1.5	2	0.2	0.6
3	1.5	1.5	0.2	1.35
3	1	1	0.15	0.45
4	3	2.5	0.15	4.5
1	5	2.5	0.2	2.5
1	4	1	0.2	0.8
1	3	2	0.2	1.2
1	1.5	1.5	0.15	0.34
1	5	1	0.15	0.75
1	4	1	0.15	0.6
2	3	1.5	0.15	1.35
2	5	1.5	0.15	2.25
1	3	1.25	0.15	0.56
1	5	1	0.15	0.75
1	10	1.25	0.2	2.5
1	1.5	1.5	0.15	0.34
1	0.5	0.5	0.15	0.04
1	3	1	0.15	0.45
1	4	1.5	0.15	0.9

Day
8/11/21
JR

TBM
8-11-21
AE

10/11/2021

Nos.	Length (m)	Width (m)	Thickness (m)	Qty. (Cum.)
1	1.5	1.5	0.15	0.34
1	15	1.5	0.15	3.38
1	10	3.75	0.15	5.63
1	12	2	0.15	3.6
1	2	1.25	0.15	0.38
1	1	1.5	0.15	0.23
1	70	1.5	0.2	21
2	2	1.5	0.15	0.9
2	2	2	0.15	1.2
2	1	1	0.15	0.3
3rd Km.				
1	10	1.5	0.15	2.25
1	2.5	1.5	0.15	0.56
1	5	1.5	0.15	1.13
1	3	1.5	0.15	0.68
2	2	1.5	0.15	0.9
1	25	1.5	0.15	5.63
1	2	2	0.15	0.6
1	2	1	0.15	0.3
1	1	1	0.15	0.15
1	4	2	0.15	1.2
2	5	1.5	0.15	2.25
1	5	1	0.15	0.75
1	2	1	0.15	0.3
1	2	1	0.15	0.3
1	3	1	0.15	0.45
1	2.5	1	0.15	0.38
1	8	2	0.15	2.4
2	2	1.5	0.15	0.9
3	1.25	1	0.15	0.56
2	30	2	0.2	24
1	4.5	1.5	0.15	1.01
1	2	2	0.15	0.6
2	30	2	0.15	18
1	10	2	0.15	3

Total

203.89

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8/11/21
SJ2

TSJ
8.11.21
AE

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10.11.2021

Name of Road :-

Girdharpur To Ganga Sarai

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	91.34	604.91	55254.12	5525.41
GSB 9.5-2.36	m3	65.24	514.58	33573.67	3357.37
Local sand	m3	104.39	141.85	14807.96	1480.80
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	0.00	1032.00	0.00	0.00
				103635.75	10363.58


JE 8/11/21


AE 8.11.21


EE 10.11.2021

Name of Road

Girdharpur To Ganga Sarai

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	agg 9.5-4.75	agg 4.75 below	agg 40	agg 20	agg 10	Stone Agg	stone spalls	Coarse sand	cement
1	GSB Grading II	m3	203.89			91.34	65.2	104.39														
				0.00	0.00	91.34	65.24	104.39	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

[Signature]
J.E. 8/11/21

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A.E. 8.11.21

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10.11.21
E.E.

Analysis for Carriage by Road & Rail

Name of Road:- Girdharpur To Ganga Sarai

District:- Lakhisarai

Block :- Barahiya

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Katcha		Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pukka / Surface						
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.94 \times 40.00 \text{ Km} = \text{Rs } 553.55$	$\frac{8.00}{4.59} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			210.23		Rs. 763.78
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94 \times 40.00 \text{ Km} = \text{Rs } 509.18$	$\frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			210.23		Rs. 719.41
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94 \times 18.00 \text{ Km} = \text{Rs } 229.13$	$\frac{8.00}{4.99} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			210.23	1358.11	Rs. 1797.47
4	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94 \times 40.00 \text{ Km} = \text{Rs } 529.33$	$\frac{8.00}{4.80} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			210.23		Rs. 739.56
5	Coarse Sand	Cum	Kiul River	$\frac{8.00}{4.99} \times 7.94 \times 27.00 \text{ Km} = \text{Rs } 343.70$	$\frac{8.00}{4.99} \times 19.23 \times 1.00 \text{ Km} = \text{Rs } 30.83$			113.70		Rs. 488.23
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.94 \times 40.00 \text{ Km} = \text{Rs } 423.47$	$\frac{8.00}{6.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			113.70		Rs. 537.17
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
9	Cement	MT	Local	$\frac{8.00}{8.00} \times 7.94 \times 10.00 \text{ Km} = \text{Rs } 79.40$	$\frac{8.00}{8.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			316.10		Rs. 395.50
10	Steel	MT	Local	$\frac{8.00}{8.00} \times 7.94 \times 10.00 \text{ Km} = \text{Rs } 79.40$	$\frac{8.00}{8.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			337.28		Rs. 416.68
11	Bitumen Emulsion	MT	Barauni	$\frac{8.00}{8.00} \times 7.94 \times 88.00 \text{ Km} = \text{Rs } 698.72$	$\frac{8.00}{8.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			361.31		Rs. 1060.03
12	Bitumen	MT	Barauni	$\frac{8.00}{8.00} \times 7.94 \times 88.00 \text{ Km} = \text{Rs } 698.72$	$\frac{8.00}{8.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			361.31		Rs. 1060.03
13	Hume Pipe (1000 mm)	m	Lakhisarai	$\frac{8.00}{10.00} \times 7.94 \times 25.00 \text{ Km} = \text{Rs } 158.80$	$\frac{8.00}{10.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			81.88		Rs. 240.68
14	Hume Pipe (600 mm)	m	Lakhisarai	$\frac{8.00}{25.00} \times 7.94 \times 25.00 \text{ Km} = \text{Rs } 63.52$	$\frac{8.00}{25.00} \times 19.23 \times 0.00 \text{ Km} = \text{Rs } 0.00$			35.09		Rs. 98.61
15	Brick Bat	Cum	Local							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

JE 8/11/24
AE 8.11.24
RWD

10.11.2021
JE
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)

Quarry Site to Mirzachawki Railway Yard (By Road)	=	$\frac{8.00}{4.99}$	x	7.94	x	4.00 Km	=	Rs 50.92
Surface Gravel Road	=	$\frac{8.00}{4.99}$	x	9.56	x	0.00 Km	=	Rs 0.00
Gravel Road	=	$\frac{8.00}{4.99}$	x	19.23	x	0.00 Km	=	Rs 0.00
Loading & Unloading	=						=	Rs 210.23

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

Gross Rate for Railway freight Charge

=

For 1 Cum

=

Rs 886.73

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

1111

Schedule XLV-Form No. 134

11/10/11 - 11/10/11 of 11/10/11 - 11/10/11

11/10/11

DIVISION

11/10/11

SUB-DIVISION

694

MEASUREMENT BOOK

11/10/11

7

Agency by which work is executed—
Date of measurement—

Agency by which work is executed—
Date of measurement—

Date of measurement—

No. and date of agreement.

(These four lines should be repeated at the commencement of the measurements relating to each work.)

[illegible]

Continuation

Continuation
 $27 \ 1.57 \ 1.57 \ 0.15 = 0.68$

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
1x5.00x1.50x0.2 =					1.500 m ³
1x6.00x1.50x0.2 =					1.800 m ³
1x2.50x1.00x0.15 =					0.380 m ³
2x1.00x1.00x0.15 =					0.300 m ³
2x1.00x1.00x0.15 =					0.300 m ³
1x2.00x1.50x0.15 =					0.450 m ³
1x4.00x1.00x0.15 =					0.600 m ³
1x1.00x1.00x0.15 =					0.150 m ³
1x1.50x0.50x0.15 =					0.110 m ³
1x10.00x3.00x0.2 =					6.00 m ³
1x1.00x1.00x0.15 =					0.150 m ³
1x3.00x1.50x0.15 =					0.680 m ³
1x30.00x1.00x0.2 =					10.80 m ³
1x5.00x2.00x0.2 =					2.00 m ³

1x	1.50	x 2.00	x 0.15 =	0.450
2x	2.50	x 2.00	x 0.15 =	1.500
3x	1.00	x 1.00	x 0.150 =	0.450
1x	5.00	x 1.50	x 0.150 =	1.13
1x	2.00	x 1.50	x 0.2 =	0.600
3x	1.50	x 1.00	x 0.15 =	0.6800
2x	2.00	x 1.50	x 0.15 =	0.900
2x	1.00	x 1.00	x 0.150 =	0.300
3x	0.50	x 0.50	x 0.15 =	0.110
1x	1.50	x 2.00	x 0.2 =	0.600
3x	1.50	x 1.50	x 0.2 =	1.350
3x	1.00	x 1.00	x 0.15 =	0.450
4x	3.00	x 2.50	x 0.15 =	4.50
1x	5.00	x 2.50	x 0.20 =	2.500

Continuation

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
	1	4.00	7.10	0.2	0.80
	1	3.00	7.20	0.2	1.20
	1	1.5	7.150	0.150	0.34
	1	5.00	7.10	0.150	0.750
	1	4.00	7.10	0.150	0.600
	2	3.00	7.150	0.15	1.350
	2	5.00	7.150	0.15	2.250
	1	3.00	7.125	0.15	0.56
	1	5.00	7.10	0.150	0.75
	1	10.00	7.175	0.2	2.50
	1	1.50	1.50	0.150	0.04
	1	3.00	7.10	0.250	0.450
	1	4.00	7.150	0.35	0.90
	1	1.5	7.150	0.15	0.34
	1	15.00	7.150	0.15	3.38
	1	10.00	7.75	0.15	5.63
	1	12.00	7.20	0.15	3.60
	1	2.00	7.25	0.15	0.380
	1	70.00	7.150	0.2	21.00
	2	2.00	7.150	0.15	0.90
	2	2.00	7.20	0.15	1.20
	2	1.00	7.10	0.15	0.300
3rd km	1	10.00	7.150	0.15	2.75
	1	2.50	7.150	0.15	0.560
	1	5.00	7.150	0.150	1.13
	1	3.00	7.150	0.150	0.680
	2	2.00	7.150	0.150	0.90
	1	25.00	7.150	0.150	5.63

Continuation

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

ABSTRACT OF LOT

1/ Pundip 2 fillip GSB
in PAF

VTM 88 (4)

203.89 m² @ 1446.16/m² 294858.2

Add 1.1. Labo Gen + 14 2949.7

Add 124. GST + 14 35383.1

Add 10.7. Seigniorage fee
GSB GRT

26.5 mm to 9.5 mm

91.94 x 604.91 + 10% = + 14 5525.2

1.5 to 2.36 mm

65.24 m² @ 514.58/m² 14 3357.2

Local bed

104.39 m² x 141.85 + 10% = + 14 1481.2

14 3,43553.1

15.11.24

SR

15.11.24

AE

CSP.

15.11.24.
EE.