



GOVERNMENT  
OF THE AMUR REGION



AMUR REGIONAL AGENCY  
FOR ATTRACTING INVESTMENT

AMUR REGION

# THE CHALGANY DEPOSIT OF KAOLIN SANDS



## Amur Region

is located in the south of the Far East  
on the border with China

## Blagoveshchensk city

is the administrative center

**362 sq. km**

total area

**790,4 thousand people**

population of the region

Amur Region

Blagoveshchensk

**1 250 km**

length  
of the border  
with China

Moscow

5 614 km

Krasnoyarsk

2 371 km

Novosibirsk

3 001 km

Harbin

508 km

Vladivostok

861 km

Beijing

1 444 km

Seoul

1 414 km

Tokyo

1 849 km

Shanghai

2 178 km

Hong Kong

3 313 km

Delhi

4 822 km

INDIA

# ECONOMIC DEVELOPMENT CENTERS OF THE AMUR REGION



## AGRO-INDUSTRIAL

**35%**

of all soybeans  
in the country



## ENERGY

**1<sup>st</sup> place**

in electricity  
generation  
in the Far East



## MINING USEFUL FOSSILS

**3<sup>rd</sup> place**

in the country  
for mining



## SPACE

**First**

Civil  
Cosmodrome  
«Vostochny»



## LOGISTIC

**World's first**

highway bridge  
to China



## TOURIST- RECREATIONAL

**World's first**

cross-country cable  
car to China



## GAS PROCESSING

**Gas Pipeline**

«Power of Siberia» and  
Amur Gas Processing  
Plant (GPP)



## FOREST PROCESSING

**3<sup>rd</sup> place**

in the Far Eastern Federal  
District in harvested wood  
capacity

**64%** forest  
cover

# THE CHALGANY DEPOSIT OF KAOLIN SANDS

## Location

Amur Region,  
Magdagachi Area,

**65 km**  
from Magdagachi  
settlement

**20 km**  
from Tygda  
settlement

**400 km**  
from regional center –  
Blagoveshchensk city

**6 km**  
from the Amur  
Federal Highway

The Trans-Siberian  
railway passes through  
the Chalgany  
settlement

## Characteristics of the deposit

Unleveled  
hilly surface  
with an absolute  
relief elevation  
of **340–360 m**

**Depth of 20 m**  
from the surface  
are represented  
by sandy soil

**15 m thick clay bed**  
under the sandy  
spit protects from  
the penetration  
of groundwater

**Conclusion:**  
field is not  
flooded

## Plots of the deposit

Northern  
South-Western  
South-Eastern

Magdagachi

Tygda

Chalgany



# CHARACTERISTICS OF THE RAW MATERIAL

**Loam soils and ferruginous kaolinized sands**

○ The total thickness (loams, clays, substandard sands) ranges from **0.0 to 16.0 m**

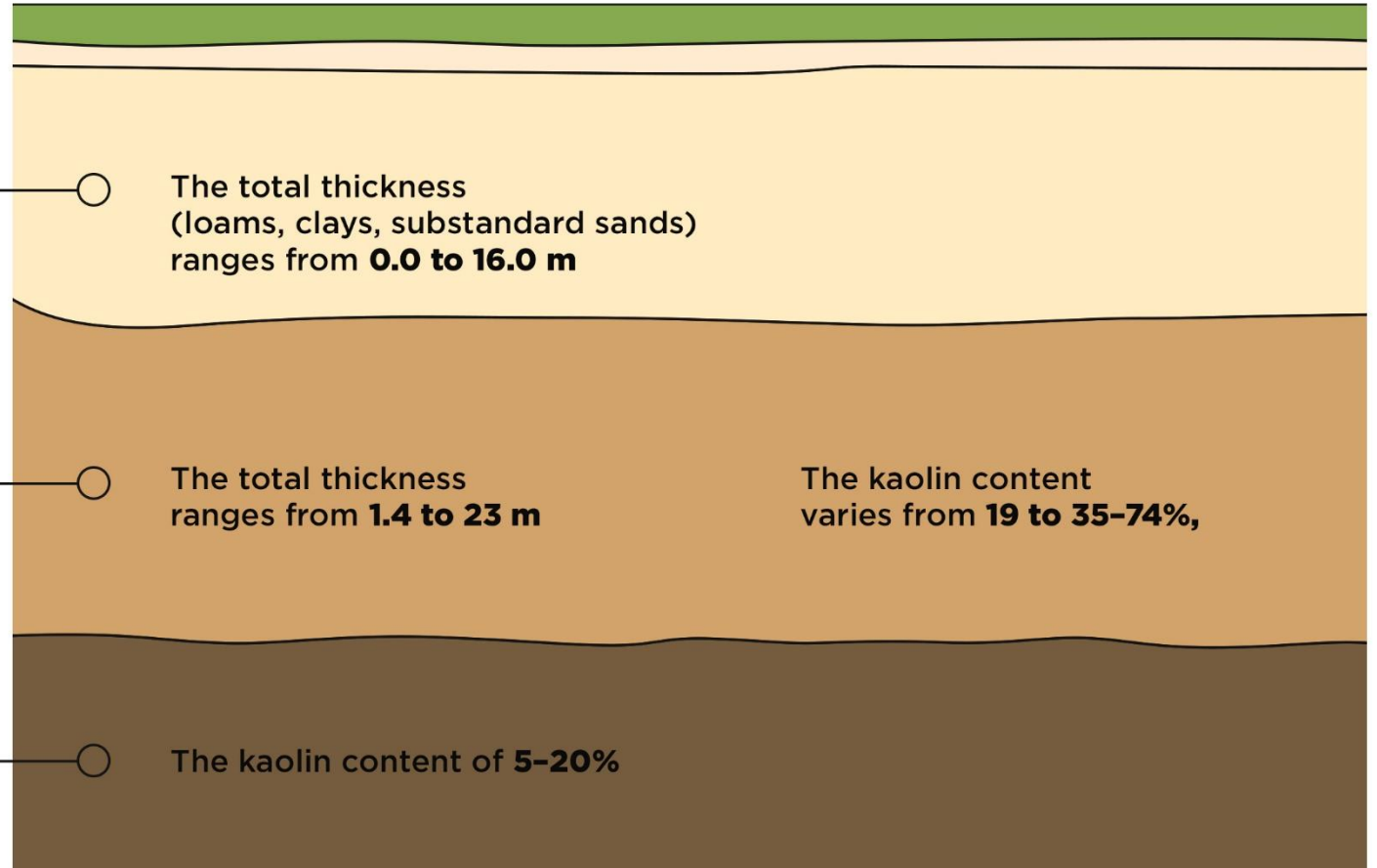
**Productive kaolin-bearing sands**

○ The total thickness ranges from **1.4 to 23 m**

The kaolin content varies from **19 to 35-74%**,

**The bedding rocks are mixed-grained feldspar-quartz ferruginous sands**

○ The kaolin content of **5-20%**



# KAOLIN-BEARING SANDS



**Kaolin is white clay, formed as a result of weathering of rocks containing feldspars.**

## Kaolin

The mineral composition of refined kaolin is predominantly kaolinite with sharply subordinate amounts of quartz, microcline, and hydromica.

**0.35 - 3.7%**

Content of Fe<sub>2</sub>O<sub>3</sub> (0)

**25.8 - 36%**

Content of Al<sub>2</sub>O<sub>3</sub> (0)

**0.17 - 1.28%**

Content of TiO<sub>2</sub> (0)

### Use in industries:

ceramic, paper, rubber, chemical, perfumery

### Note:

*As of January 1, 2019, the balance reserves of kaolin-bearing quartz-feldspar sands at the Chalgany deposit are as follows: categories A+B+C1 – 31,443 thousand tons, category C2 – 32,664 thousand tons.*

*As of January 1, 2019, the reserves of Category B kaolin-bearing quartz-feldspar sands in the dumps are 522 thousand tons*

## Sands

The mineral composition of sands as follows:

**83 - 86%**

Quartz

**14 - 17%**

Kaolin-bearing feldspar

Other minerals are found in insignificant quantities.

### Use in glass industry

*At present, Subsurface Management Department of the Amur Region (Amurnedra) is working on including this facility in the list of subsurface sites offered for use; the works are nearing completion.*

# KEY CONSTRUCTION AND DEVELOPMENT PROJECTS IN THE REGION

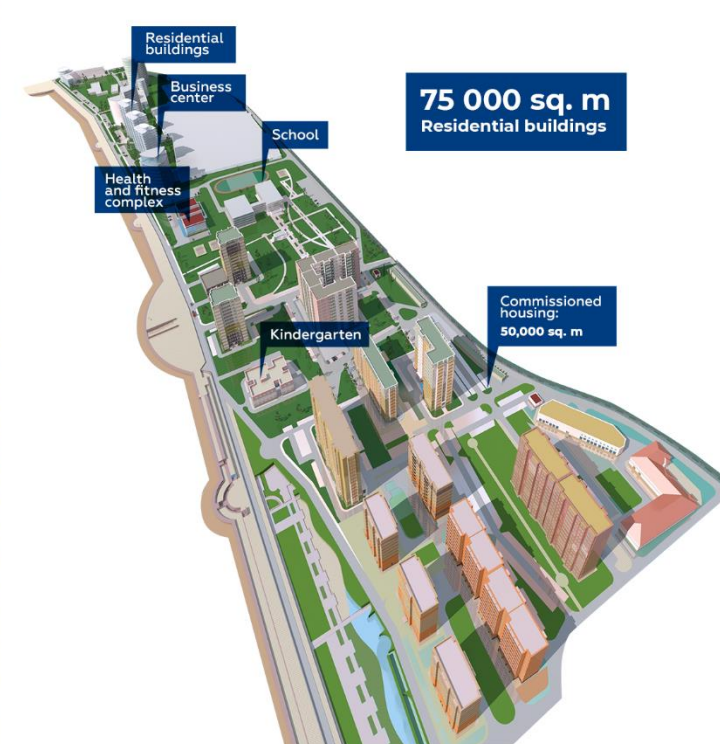
## IGNATIEVO FARMSTEAD



## SEVERNY MICRODISTRICT



## AZURE COAST





# AMUR REGIONAL AGENCY FOR ATTRACTING INVESTMENT

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**THANKS FOR  
YOUR ATTENTION!**

