



NATIONAL AGENCY  
OF INVESTMENT  
AND PRIVATIZATION  
REPUBLIC OF BELARUS

# SETTING UP THE PRODUCTION OF DRIP IRRIGATION SYSTEMS





# ABOUT THE DISTRICT

## OVERVIEW OF THE LOCATION

Narovyansky district is a part of the Gomel region and is located in its southern part. It is located in the zone of the right Bank of the lower course of the Prip'yat river.

## CLIMATE

The climate is moderately continental, moderately warm, humid with fairly warm long summers and moderately cold winters.



**+7.5 C**  
AVERAGE YEARLY  
TEMPERATURE



**500-550 MM**  
AVERAGE ANNUAL  
RAINFALL

## DEMOGRAPHY



**10,7 THSD**  
ACCOUNTS FOR  
POPULATION  
AMOUNT



**54,9 %**  
ACCOUNTS FOR  
ECONOMICALLY  
ACTIVE POPULATION

## FEATURES OF THE REGION

The economic development of the region is based on the following areas:



AGRICULTURE



FISHERY



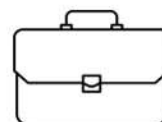
LOGGING

В районе зарегистрировано:

**129 SMES**  
(SMALL AND MEDIUM-  
SIZED ENTERPRISES)



**67 BELARUSIAN**  
INDIVIDUAL  
ENTREPRENEURS





# ABOUT THE PROJECT

IMPLEMENTATION OF THE INVESTMENT PROJECT INVOLVES THE ORGANIZATION OF PRODUCTION OF DRIP IRRIGATION SYSTEMS

## OVERVIEW OF THE PROJECT

The project is aimed at setting up a company for the production of drip irrigation systems, which will allow farmers to ensure high yields due to the appropriate selection of irrigation modes and effective fertigation of agricultural crops while reducing the consumption of water and fertilizers.

Drip irrigation is a method of irrigation in which water is supplied directly to the root zone of cultivated plants in small portions, controlled by dropper dispensers (emitters).

**Location of the project:** Belarus, Gomel region, Narovlyansky district.

**Amount of investment:** 2 mln USD

## ELEMENTS OF THE DRIP IRRIGATION SYSTEM

Equipment for drip irrigation is a drip tape, drip tube, filtration equipment, HDPE hoses and pipes, various types of fittings and accessories.

**POLYFLAT HOSE**  
(DISTRIBUTION NETWORK)



**DRIP TAPE**  
(DISTRIBUTION NETWORK)



**DRIP TUBE**  
(DISTRIBUTION NETWORK)



**FITTINGS**  
(TAPS, PLUGS, AND TRANSITIONS)



# APPLICATION AREA



## APPLICATION AREAS OF DRIP IRRIGATION SYSTEMS

Currently, drip irrigation systems are widely used both in greenhouse production and in the open ground for growing vegetables, fruits, shrubs and trees.

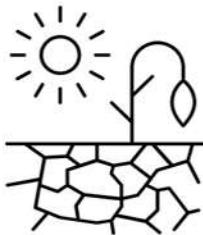
Also, it is advisable to use drip irrigation systems in cases where other irrigation methods can not be used or are ineffective:

→ **COMPLEX TERRAIN**



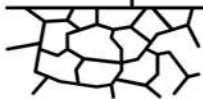
**LARGE SLOPE OF THE SITE  
(45 DEGREES OR MORE);**

→ **DISTRICTS**



**WITH PROLONGED  
DROUGHTS AND STRONG  
WINDS;**

→ **SOILS**



**WITH AN INSIGNIFICANT  
FERTILE LAYER AND HIGH  
OR LOW HYGROSCOPICITY;**

→ **SOILS**



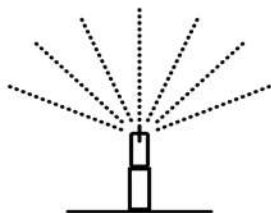
**PRONE TO SALINIZATION;**

→ **WATER SOURCES**



**WITH A LIMITED AMOUNT  
OF WATER;**

→ **FOR IRRIGATION**



**OF WATER WITH A  
HIGH CONTENT OF  
WATER-SOLUBLE SALTS**

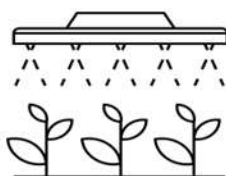


# ADVANTAGES OF THE DRIP IRRIGATION SYSTEM

→ Providing humidity for the plants at the appropriate time and in the relevant amount;

→ Reduction of fertilizer consumption in comparison with surface irrigation by about 50% by optimizing the nutritional regime of plants, taking into account their needs for different elements of nutrition depending on the phase of growth and development, as well as the supply of fertilizers with irrigation water directly to the root system;

**40-50 %  
REDUCTION IN  
WATER CONSUMPTION  
COMPARED TO SURFACE  
IRRIGATION**



**UP TO 95 %  
OF WATER  
IS ABSORBED  
BY IRRIGATED CROPS**







→ Reducing the risk of diseases and infections as leaves and stems of plants remain dry;

→ Preventing the spread of weeds and limiting their development in the aisles due to local application of water and fertilizers in the root zone of agricultural crops;

→ Significant labor savings due to automation of the irrigation and plant nutrition process.





## DRIP IRRIGATION TO INCREASE YIELDS IN COMPARISON WITH THE OTHER IRRIGATION METHODS

| Crop  | Yield, t/ha |           |            |
|---|-------------|-----------|------------|
|   | Irrigation  | Watering* | Прибавка** |
|  | 121,0       | 47,4      | 155 %      |
|  | 53,2        | 25,3      | 110 %      |
|  | 43,1        | 30,0      | 44 %       |
|  | 28,9        | 17,0      | 70 %       |

\* Surface irrigation

\*\* Increase in yield with drip irrigation compared to surface irrigation:


## USE OF NITROGEN FERTILIZERS FOR IRRIGATION CROPS UNDER DIFFERENT IRRIGATION METHODS

| Crop   | Yield increase: |           |          |
|--|-----------------|-----------|----------|
|  | Irrigation      | Watering* | Saving** |
|   | 112             | 202       | 44 %     |
|  | 78              | 157       | 50 %     |
|   | 112             | 246       | 54 %     |
|  | 90              | 157       | 57 %     |

\* Surface irrigation

\*\* Saving of fertilizers for drip irrigation compared to surface irrigation:

# PREFERENTIAL REGIMES

-  The following major benefits related to the implementation of the project, are provided in connection with the conclusion of the investment agreement:


**VAT  
DEDUCTION**

**EXEMPTION  
FROM VAT  
AND CUSTOMS  
DUTIES WHEN  
IMPORTING  
TECHNOLOGICAL  
EQUIPMENT**

## INVESTMENT AGREEMENT



**LAND PLOTS ARE GRANTED FOR  
RENT WITHOUT AUCTION**

-  The following benefits related to the implementation of the project, are provided in connection with the location of the land plot:

**EXEMPTION  
FROM CUSTOM  
IMPORT DUTIES**

**0%**  
**INCOME TAX  
PROPERTY TAX  
VAT**

## SMALL TOWNS AND RURAL AREAS



**EXEMPTION FROM PAYMENT  
OF THE STATE FEE  
FOR ISSUING A LICENSE**

# NATIONAL AGENCY OF INVESTMENT AND PRIVATIZATION

The Agency is ready to help foreign investors interested in doing business in Belarus:

- Presentation of information on investment opportunities, preferential regimes and benefits, industries, legislation
- Provision of current information on investment projects
- Selection and provision of information on options for land and premises
- Search for potential partners for the implementation of the investment project; organization of meetings, negotiations with potential partners to establish cooperation
- Providing a platform for negotiations and support for the investor during the negotiations
- Organization of visits to the Republic of Belarus (development of a program of stay, assistance in obtaining a visa)
- Representing the interests of the investor in negotiations with government officials on the implementation of investment projects, as well as on improving business practices in the Republic of Belarus
- Post investment support



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