AGENCY OF LAND RECLAMATION AND IRRIGATION UNDER
THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN

INNOVATIVE IRRIGATION TECHNOLOGY IN TAJIKISTAN

ENVIRONMENTAL CONDITIONS

- **Glaciers** – 845 km³ (volume), 11 146 km² (surface area)
- **Surface water resources** – 64 km³/year (55.4% of the Aral Sea Basin river flow)
- **Lakes** – 46 km³ (volume), 705 km² (surface area), 1300
- **Reservoirs** – 15.34 km³ (volume), 664 km² (surface area),
- **Underground water resources** – 18.7 km³ (2.8 km³ – useful resources)

The average annual precipitation is 760 mm. In the alpine deserts of the Eastern Pamir, precipitation reaches only 70-160 mm, while in Central Tajikistan precipitation may exceed 1,800 mm.

SOCIAL CONDITIONS

- As of January 1, 2016, the Tajikistan’s population is estimated at 8.7 million people.
- The urban and rural population accounts for 26.4% and 73.6% respectively.
- The average population growth rate is approximately 2.5% per annum.

TAJIKISTAN: GENERAL INFORMATION

**Capital**
**Dushanbe**

**Territory**
143.1 thousand km² (93% of total area are mountains)

The country is located in the Central Asian region, bordering Afghanistan, China, Kyrgyzstan and Uzbekistan.

By the nature of the surface, Tajikistan - is a typical mountainous country 93% of its territory is covered by mountains of the mountain systems of Central Asia - the Tien Shan and Pamirs ranges. Nearly half of the area of country is situated at over 3000m.
The Agency for Land Reclamation and Irrigation under the Government of the Republic of Tajikistan is the central executive government body in the field of land reclamation and irrigation that exercises functions aimed at developing the unified state policy and legal-regulatory framework in the area of land reclamation and irrigation systems, use and maintenance of water industry facilities, supply of irrigation water and protection of water resources.

The Agency is also responsible for the operation and maintenance of water management facilities, design and construction of new hydraulic structures, bank protection works to prevent flood risks, land development and water supply, supervisory control over the land reclamation and water use, water resources management for irrigation, support of the Water users associations and water resources management in land reclamation and irrigation systems based on the Integrated water resources management at basin and sub-basin levels of large and small rivers.

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• Irrigated agriculture is one of the main sectors of the economy of the Republic of Tajikistan, ensuring food security and employment of the rural population.

• The total area of potentially irrigable land in the country is estimated at 1,570 thousand hectares, of which, as of January 1, 2018, irrigated lands amount to 757.8 thousand hectares, of which 289.1 thousand hectares are irrigated by using the pumping stations.

General structure of management on operation of irrigation and drainage systems of ALRI

Introduction of water saving technologies - Drip irrigation in Dangara area

Project: Irrigation and land reclamation for orchards and vineyards in Dangara area of Tajikistan.

Project's task: The project was planned to irrigation and land reclamation for orchards and vineyards by using drip irrigation on 700 ha square.

Project Objective: The main objective of the project was to improve the welfare of the population living in the region.

Project Background: The need of project based upon availability of water, land and labor resources. The main industrial activity in the region is agricultural production, primarily in irrigated areas.


Implementation of the current project allowed providing raw produce for local production and employing over 350 people.
Within the framework of the State program “On the development of new irrigated lands and rehabilitation of lands out of agricultural rotation for the period of 2012-2020” the LLC Agricultural Union “Vodii Zarrin” as a result of using of innovative technologies in the period from 2015 to 2017 from the total 6216.94 hectares of available irrigated lands, 4065 hectares of lands have been developed.

- With the purpose of effective use of water resources in the rehabilitated lands, the innovative technologies, namely sprinkler irrigation methods have been introduced.
- The use of this irrigation method contributed and allows for introduction of mineral fertilizers made the conditions for saving of limited water resources.

In Bobojon Gafurov district of Sogd region of Tajikistan in Somgar area constructing a new small town.

In accordance with project was planned development of small town Sayhun, that the 4000 hectares of new lands will be developed by the State Institution.

Today, in the area of about 1000 hectares gardens of apricots, peach and pepper trees are watering through drip irrigation. These gardens are watering by pump station from Syr Darya river.
THANK YOU FOR YOUR ATTENTION!!!