

Institute of Rahbord Danesh Pouya

Institute of Rahbord Danesh Pouya started working in 2006 with a large number of professors and graduates of Civil-water, Urban Planning, Industry, Management and Economics. The institute strives to provide strategic and operational solutions to national challenges and to achieve sustainable development through the application of professional knowledge of Iran's environmental characteristics. This is possible by integrating existing knowledge and experiences in the country and also by using participatory approaches, creativity and supporting the interests of all stakeholders. Sincerity and honesty are the two main principles of the institute. Achieving internationally relevant professionalism along with ethics fundamentals is our vision .

The institute emphasizes the need to make rigorous, comprehensive and specialized studies before any decision and to avoid unprofessional considerations before any action. Our institute has been ranked as the environment and wastewater installations with grade two by Iran's Construction engineering organization, as irrigation, drainage, and river engineering and conservation with grade three by Management and planning organization – vice president of Planning and Strategic supervision. Our main activity is related to comprehensive planning and optimization of water systems engineering, Value engineering (training and implementation), water economics, Comprehensive management and planning of drought and flood crisis, Improving the Efficiency and Effectiveness of Systems and Developing Standards, Studying and designing infrastructures (dams, bridges, roads, power plants & etc), designing and implementing the programs and activities of specialized workshops. The institute has been also able to publish four books (authoring and editing), several articles and one special journal. More than 100 training courses and workshops especially in fields of value engineering, water engineering, and crisis management are the other activities of the institute.

Fields of Activity

The institute offers its engineering, researching, educational and consulting services in the following areas:

- 1- Environmental planning and management
- 2- Comprehensive and integrated Planning, Optimization and engineering of water systems

- 3- Value planning, management and engineering (training and implementation)
- 4- Integrated management and water economics
- 5- Comprehensive planning and management of drought and flood crisis
- 6- Landuse planning and management
- 7- Improving the efficiency and effectiveness of systems and standardization
- 8- Designing and implementing specialized and professional courses and workshops related to the Institute's activities

Publications

Name of Publications	Client
Operational planning of municipalities with strategic approach (City of Mahallat)	Iran's Municipalities and village administrators
Introduction to Value Engineering	Iran's Municipalities and village administrators
Translation, Authoring and Publication of Urban flood risk management (Issue 13)	Specialized workshop of water flooding
Translation, Authoring and Publication the book: Urban development strategies, Tips for performance improvement	Iran's Municipalities and village administrators
Multimedia collection of Value engineering	Municipality of Amol
Roadmap for deputy of education and public participation (Tehran, Shine Publication)	Tehran traffic and transportation organization

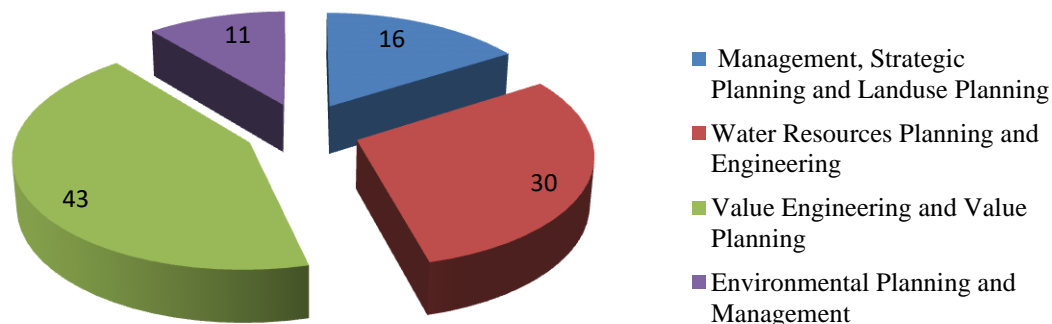
Projects

We have carried out 129 studies and research projects since its beginning. Also, over 160 courses and workshops have been implemented for different clients about integrated management of water resources, crisis management, drought and flood management and value engineering(level 1 to 4).

Our projects can be categorized as follows:

1. Management, Strategic Planning and Landuse Planning: **21 projects**
2. Water Resources Planning and Engineering: **38 projects**
3. Value Engineering and Value Planning: **56 projects**
4. Environmental Planning and Management: **14 projects**

Thematic distribution of projects(%)



1- Management, Strategic Planning and Landuse Planning

This part of the projects contains 21 projects including 8 strategic planning and roadmaps, and 5 water sector development documents. Some of the titles are as follows:

Row	Project Name	Client Name	Year
1	Developing the governance organizational structure for water management based on the new climatic conditions in Iran	Water Research Institute	2018
2	Developing roadmap and Integrated water resources management (IWRM) in Alborz	Alborz Regional Water Company	2018
3	Strategic planning, Developing primary framework of goals and missions, organizational design, Capacity building, Preparing institutional requirements and policies for National Center of strategic studies in Agriculture and Water	Iran chamber of commerce, industries, mines and agriculture	2012
4	Evaluation of challenges and opportunities of Urmia lake basin	Deputy of water and wastewater affairs,	2011-2012
5	Passive defense studies of dams and projects in Tehran (Dez and Qamrud rivers)	Tehran Regional Water Company	2010
6	Determining the Country's Research Priorities in the Water Sector	Iran Water Resources Management, Applied Research Plan, Water Research Institute	2009-2011
7	Integrated management of water	Islamic Parliament	2008-2010

	and soil resources: legal frameworks and policies	Research Center	
8	Preparation of operational plan for flood accidents in railway sector	Ministry of Roads & Urban Development, Transportation, Institute of transportation	2007

2- Water resources planning and management

In this section, 38 study titles have been divided into three categories; water resource management (27 projects), crisis, risk and drought management (6 projects) and designing water conveyance networks (5 projects).

2-1- Water resources management

This section includes 27 projects, containing 14 projects in the areas of development, water demand estimation, resources and consumption, and water allocation. The Institute has also undertaken 6 projects in two areas: Integrated Water Resources Management and the Surface Water Management Master Plan. Some of the titles are as follows:

Row	Project Name	Client Name	Year
1	Conducting studies on the current status of water resources and consumption in the province-developing a comprehensive and integrated water management program in compliance with water deficit conditions in Zanjan province	Zanjan Regional Water Company	2019
2	Estimation of Industrial and mines water demand (Horizon Year : 2036 & 2046)	National Center for Strategic Studies of Agriculture and Water use	2018
3	Estimation of Industrial water demand for homogeneous basins	Ministry of Energy	2017
4	Estimation of Industrial water demand for homogeneous basins and Executive Services for estimation of water demand (industry sector)	Ministry of Energy	2017
5	Water demands prediction at provincial and national scales for industrial water demand forecasting	Ministry of Energy	2017
6	Executive measure and pilot running for east corridor, Estimation of water demand in Industry and Mine	Pars Ab Tadbir Consulting Company	2015

7	Documentation of emergency projects in the west of Kan river	Deputy of Technical & Development Affairs - Tehran Municipality	2014
8	Master consulting of comprehensive plan implementation for surface water management in Tehran	Deputy of Technical & Development Affairs - Tehran Municipality	2014
9	Master consulting of comprehensive plan implementation for surface water management in Tehran (22 urban regions)	Deputy of Technical & Development Affairs - Tehran Municipality	2012
10	Monitoring and evaluation of drainage system studies in the north of Ghareesu-Gorganrud	Golestan Regional Water Company	2012
11	Determination of critical ratio index for main basins in Iran	National Center for Strategic Studies of Agriculture and Water use	2015
12	Method of Integrated water resources management (IWRM) and planning in Kerman	Kerman Regional water Company	2007-2009

2-2- Crisis, Risk and Drought Management

This section contains developing operational plans for crisis management focusing on two phenomena of floods and droughts in terms of 6 study contracts

Row	Project Name	Client Name	Year
1	Developing the integrated plan for flood risk reduction in Tehran	Tehran Disaster Mitigation and Management Organization	2013

2-3- Design of water conveyance networks

5 projects have been studied in the context of designing water conveyance networks, collecting and directing surface water.

Row	Project Name	Client Name	Year
1	Studying and Designing the first stage of groundwater collection and Surface water guidance of the city	Municipality of Garmdarreh	2016

3- Value engineering and planning

Value engineering and planning is one of the main activities of the institute. The approach of this section is collaborative. In total, it can be stated that more than forty thousand man-hours has been performed in the institute in the form of value engineering projects. The main categories can be considered for the general classification as follow:

- Value engineering studies of dams : 20 projects
- Value engineering studies of water conveyance, irrigation and drainage networks: 11 projects
- Value engineering studies of watershed resources and consumption (integrated approach): 5 projects
- Value engineering studies of urban management: 8 projects
- Value engineering studies of coasts and ports: 5 projects
- Value engineering studies of drought and flood: 5 projects
- Other Value engineering studies: 2 projects

Row	Project Name	Client Name	Year
1	Value engineering of drinking water supply for Ghaemshahr-Jouybar based on the environmental assessment of Casillian dam	Mazandaran Regional Water Company	2017
2	Value engineering of drinking water supply for Sari based on the environmental assessment of Zaremrud dam	Mazandaran Regional Water Company	2017
3	Value engineering of Narmab irrigation and drainage system	Golestan Regional Water Company	2011

4- Environmental Planning and Management

The institute has performed 14 projects in filed of environmental planning and management.

The main categories can be considered for the general classification as follow:

- Controlling dust pollution: 2 projects
- Developing roadmap for waste management
- Controlling air pollution
- Urmia Lake restoration plan : 4 projects

Row	Project Name	Client Name	Year
1	Assessment and Monitoring of Miankale wetland and Gorgan gulf restoration studies	Golestan Regional Water Company	2017
2	Monitoring of wetland restoration plans and dust stabilization projects	Department of Environment	2017
3	Management of Urmia lake restoration programs, education and website announcement (Increasing public awareness about the environmental problems)	Sharif University of Technology	2015
4	Monitoring progress of Urmia lake restoration projects and Coordination of further studies	Sharif University of Technology	2015
5	Supporting the plans and projects approved by the Urmia lake restoration national committee	Sharif University of Technology	2015
6	Developing the action plan and roadmap of Urmia lake restoration(based on environmental and sustainable development approaches)	Sharif University of Technology	2015
7	Study of oil pollution potentiall in Latian lake basin and controlling methods	Tehran Regional Water Company	2013
8	Evaluation studies of Qualitative and health effects of Chitgar artificial lake and Providing management solutions	Deputy of Technical & Development Affairs - Tehran Municipality	2013
9	Guideline preparation of Crisis Prevention and Management for Oil Pollution in Rivers and Lakes (Guide to Determining main flows)	Ministry of Energy – Deputy of Standards	2010-2011