

# TBL GRUP

WATER MANAGEMENT FOR SUSTAINABLE AGRICULTURE



[CONTACT@TBLGRUP.RO](mailto:CONTACT@TBLGRUP.RO)



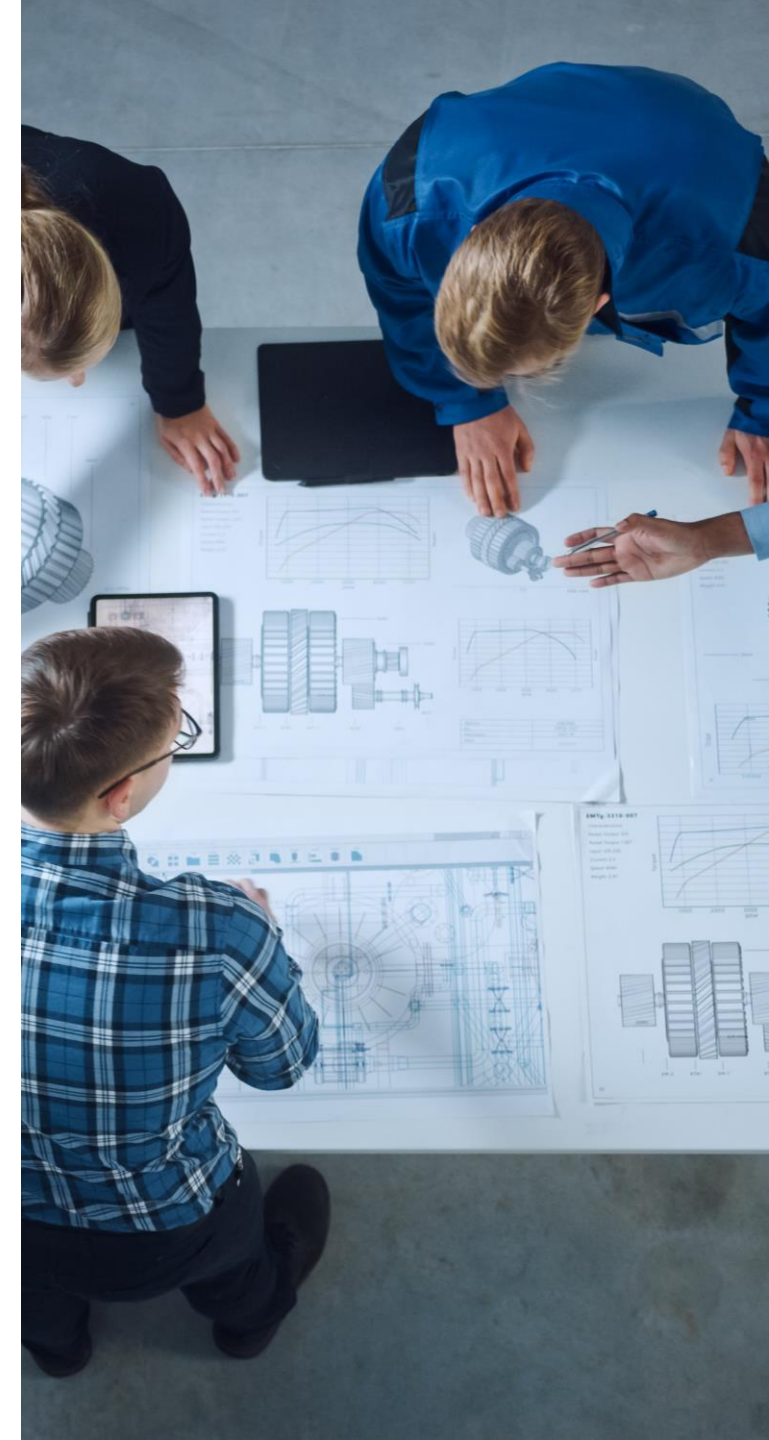
[WWW.TOTALBUSINESSLAND.RO](http://WWW.TOTALBUSINESSLAND.RO)

## WHO WE ARE

- A multi-disciplinary team of experts with international expertise in major industrial projects of irrigations, land management and hydro construction works
- TBL's team of engineers, hydrologists, agronomists, and water management specialists is prepared to take any challenge
- We take pride in providing selected expert services and offering custom design and management solutions according to your needs

## WHY WORK WITH US

- We solve your problems – we have our inhouse broad professional experience and large complimentary areas of expertise from our network of collaborators
- TBL uses a comprehensive holistic approach, providing effective irrigation design, construction and project management, managing the water resources at every step of the process
- We develop cost-effective solutions backed by comprehensive planning and engineering expertise
- Our expertise encompasses every step of the irrigation process, from water sourcing to irrigation management and technologies



# WATER IS LIFE

- Water is one of the most precious resources, essential for life and agriculture, but fragile, its quality being threatened by a wide range of factors
- Pollution, climate change, population growth, as well as infrastructure degradation can affect water quality, innovative water management strategies being needed from the source to the agricultural fields
- Water plays a vital role in ensuring food security, increasing agricultural productivity, and mitigating the impacts of climate change
- Irrigation engineering and consulting services are essential in ensuring a sustainable and prosperous future for agriculture as well as for the entire humanity
- The provision of water is indissolubly linked to the continuity of water sources and resources and the maintenance of its quantity and quality
- We identify and evaluate surface sources and groundwater and designing functional, efficient, modern, and accessible systems
- We are dedicated to protecting natural water sources, closely analyzing how they are affected by human activity, providing appropriate, long-term effective solutions



# IRRIGATION SERVICES

## One Stop Shop – All services under the same roof

- From feasibility, engineering and design to construction stage, our team of experts will design and supply the best solutions, providing a full range of service to achieve superior results
- TBL possesses both the experience and the skills to design and construct large-scale modern irrigation systems
- Our success is established in extensive experience in irrigation design and construction, and our in-depth knowledge of irrigation engineering technologies
- We start with the feasibility stage, assessing the land, water and agricultural vision, taking into consideration all aspects of soil, power, and water resources to find the best suitable solution
- We consider everything from development of surface water or groundwater, the land topography, climate and environmental considerations
- Our mission to find sustainable solutions that benefit both growers and the environment, such as on-farm water management projects



# SYSTEM DESIGN – PERMITTING - CONSTRUCTION

TBL provides experience, knowledge and design expertise as well as permitting and building large-scale modern systems according to the Client vision for various systems, including but not limited to:

- Irrigation Systems and Land Reclamation
- Water Management
- Hydraulic Engineering Structures
- Hydropower
- Pumping and inline booster stations
- Intake structures, valves screening and filtration system
- Large mainline networks
- Canal and drainage design
- Groundwater well development
- Reservoirs
- Remote monitoring and control systems
- Informational Systems
- Site Decontamination & Ecological Reconstruction
- Water supply systems and sewage systems
- Water treatment plants
- Wastewater treatment plants



# CONSULTING

- TBL has the advantage of decades of irrigation consulting and engineering performed by our expert teams, comprising engineers, environmental specialists, urbanists, architects, lawyers, project management, both in-house and external, as well as relevant professors from prestigious Romanian Technical Universities
- We can assist with feasibility research, estimates, permitting, site planning and overall project management
- We utilize advanced software for design and construction solutions
- We provide technical support, field supervision and training
- No matter the scale of your irrigation construction project, TBL can help you implement irrigation systems with professionalism at high technical standards, including but not limited to:
  - Hydraulic Engineering Structures
  - Soil Erosion
  - Drainage
  - Soil Erosion Control
  - Pumping Stations
  - Dams
  - Fish Farming Developments
  - Rice Fields



# CONSTRUCTION AND GENERAL CONTRACTING

- TBL's expert team comprise engineers, environmental specialists, architects, lawyers, project management, in-house and external, together with a team of relevant professors from prestigious Romanian Universities ready to implement your irrigation projects
- We can assist with feasibility research, estimates, permitting, site planning and overall project management
- TBL services include technical support, field supervision and training.
- In addition, TBL can provide general contracting services for large scale irrigation and pipeline projects
  
- Using its team broad experience TBL provide turnkey irrigation constructions, including construction of center pivots, large diameter pipelines, pumping and booster stations, powerlines, valves, and other irrigation components, according to your vision of development
- No matter the scale of your irrigation construction project, TBL can consult to implement the systems with professionalism and expertise



# HYDRAULIC ENGINEERING STRUCTURES

- 🌐 DAMS AND STORAGE RESERVOIRS
- 🌐 WATER DIVERSION & HEAD RACES
- 🌐 FLUVIAL FLOOD CONTROL WORKS
- 🌐 COASTAL WORKS

- 🌐 Actively involved in a major part of water management works and master plans both in Romania, as well as abroad
- 🌐 Completed design of over 130 concrete, buttress or earth dams or storage reservoirs, with heights ranging from 15 to 125m and storage volumes from 1million to 1billion cubic meters
- 🌐 Design of flood control works for over 2000 localities, 3100 economic objectives, 2.3 million ha of agricultural lands
- 🌐 Significant contribution to the elaboration of the Flood Risk Management Plan in Romania - Cycle II, 2023-2027 and implementation of EU Floods Directive in Romania with focus on green flood management approach and climate change mitigation





# EXAMPLES OF WATER INFRASTRUCTURE PROJECTS

- Basin flood risk management plans
- Designing infrastructure systems for small rural communities to large regional systems (New systems/ Rehabilitation / Extension)
- Projects financed with local budgets and/ or EE Funds, World Bank
- Water supply and sewage systems elaborated for ApaNova – Management Authority of water resources, water treatment and distribution to Romanian consumers
- Discharge of wastewater and rainfall water in the Municipality of Bucharest;
- Water supply and sewage systems at county level funded by EU funds through LIOP financing program 2014-2020;
- Design of pumping stations and civil works at main wastewater system in Bucharest, project elaborated for the Mayor Office of Bucharest Municipality



# EXAMPLES OF WATER INFRASTRUCTURE PROJECTS

- LOCAL / CONTY ROADS
  - BRIDGES
  - UNDER – CROSSINGS
  - AQUADUCTS
- 
- Experience in design of road infrastructure elements as part of most complex projects we undertake.
  - Covering all stages of a project from Pre- feasibility Study, Feasibility Studies, Grant/Funding Applications, Technical Projects, Execution Details, Technical Assistance during execution.
  - Recent reference projects include:
    - Rehabilitation of streets in Bucharest as part of Rehabilitation of water supply and sewage systems for Apanova
    - Rehabilitation of bridges in several flood risk integrated projects in Romania, Babadag locality (Tulcea County), Cucuteni (Iasi County) and Solesti (Vaslui County)



# EXAMPLES OF WATER INFRASTRUCTURE

- Our team of experts successfully elaborated national and worldwide major projects:
- Framework Water Arrangement Scheme for Romania
- Dams Masterplan for Kurdistan
- Flood Risk Management Plans for 6 out of 11 Hydrographical basins in Romania
- Action Plans in case of Dam Failure for many dams in Romania such as: Paltinu Dam, Maneciu Dam, Frumoasa Dam, Valea de Pesti Dam, Zetea Dam
- Actively contributing to elaboration of Methodologies benefiting from our specialists' expertise:
- Methodology for elaboration of Action Plan in case of Dike Failure – Project undertaken within EU's Horizon 2020 Research and Innovation program;
- Flood Risk Damage Assessment Methodology – project developed for World Bank.



# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Elaboration of design documentation phase DALI (including Technical Expertise) + PAC + PAD + POE + PTE + DE + AT (including conducting field studies and documentation necessary for obtaining legal permits and agreements), in accordance with HG 907/2016, for investment objectives-4 lots-2: -Lot 4- "Rehabilitation of the main infrastructure in the hydroameliorative arrangement Terasa Ialomita Calmatui," Ialomita County
- Elaboration of design documentation phase DALI (including Technical Expertise) + PAC + PAD + POE + PTE + DE + AT (including conducting field studies and documentation necessary for obtaining legal permits and agreements), in accordance with HG 907/2016, for the investment objective- Rehabilitation of the main irrigation infrastructure in the hydroameliorative arrangement Calarasi Raul, Calarasi County
- Elaboration of design documentation phases: DALI (including Technical Expertise) + PAC + PAD + POE + PTE + DE + AT (including conducting field studies and documentation necessary for obtaining legal permits and agreements), in accordance with HG 907/2016, for the investment objective "Rehabilitation of the SRP1 Independenta pumping station, the CA2 conveyance channels, CA Barza (CA), CP, CB, and the CS12, CC, CD1A, CD1B, CD6, CD7, CD 4a [ANIF], CS3 [ANIF], CDI Dragalina, CDI Drajna, CD8, CD9, CD10 distribution channels in the Galatui Calarasi arrangement," Calarasi County



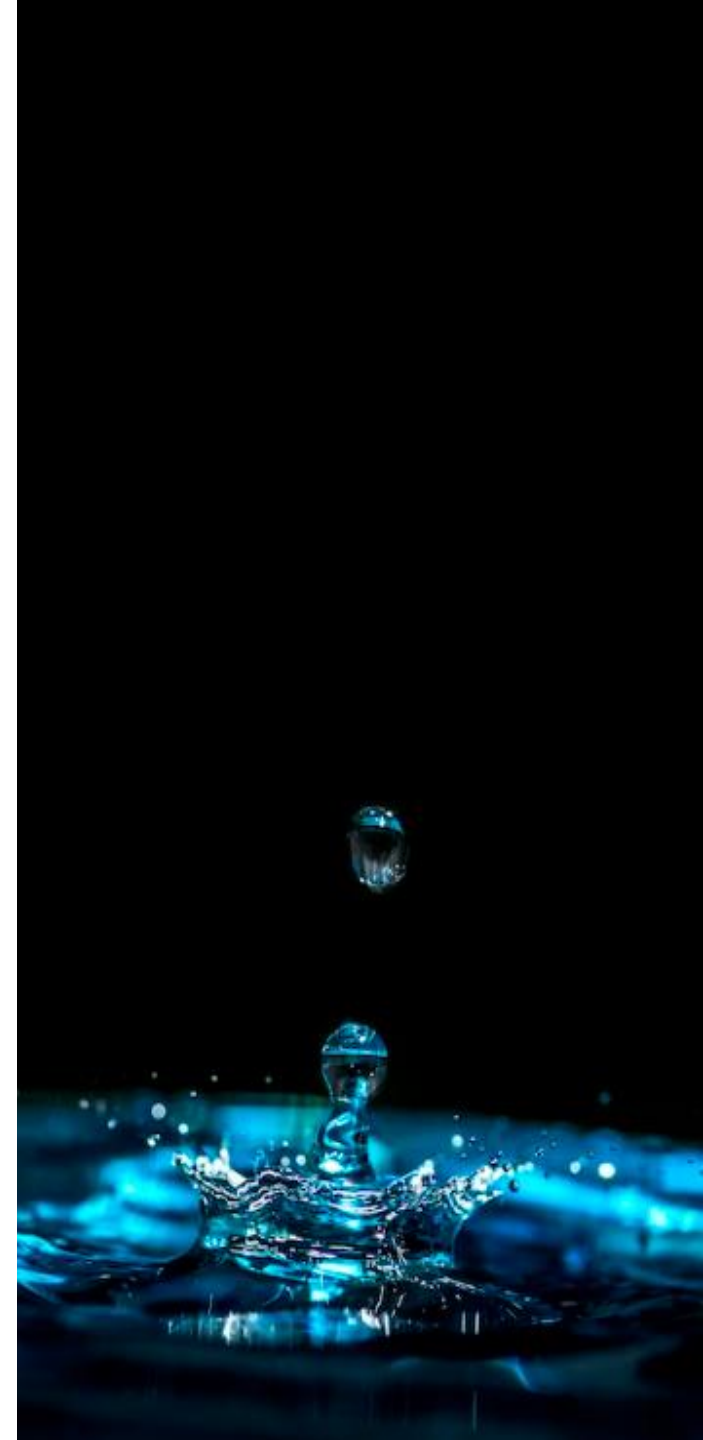
# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Elaboration of design documentation phases: DALI (including Technical Expertise) + PAC + PAD + POE + PTE + DE + AT (including conducting field studies and documentation necessary for obtaining legal permits and agreements), in accordance with HG 907/2016, for the investment objective: "Rehabilitation of the main pumping station SPA TIGANAS, the SRP DEVESEL pumping station, the CA conveyance channel, the CD 2, CD 3, CD 5 distribution channels, and the related hydraulic structures in the Crivina-Vanju Mare irrigation arrangement," Mehedinti County
- Modernization of the secondary infrastructure of plot SPP2 within O.U.A.I. MACESU, Beneficiary O.U.A.I. MACESU
- Rehabilitation and modernization of the Deveselu irrigation system, belonging to O.U.A.I. DEVESELU, Beneficiary O.U.A.I. DEVESELU
- Modernization of the water pumping station, including the construction/modernization of water collection and storage basins for irrigation within O.U.A.I. PADEA, Beneficiary O.U.A.I. PADEA
- Modernization and retooling of plot SPP18 within O.U.A.I. MAGLAVIT, Beneficiary O.U.A.I. MAGLAVIT
- Modernization and retooling of plot SPP19 within O.U.A.I. PADURE, Beneficiary O.U.A.I. PADURE



# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Modernization and retooling of the secondary irrigation infrastructure SPP10, Beneficiary O.U.A.I. PADINA
- Modernization and retooling of plot SPP6 within O.U.A.I. STREJESTI, Beneficiary O.U.A.I. STREJESTI
- Modernization and retooling of stations and secondary infrastructure for F.O.U.A.I. CALAFAT BAILESTI, Beneficiary F.O.U.A.I. CALAFAT BAILESTI
- Modernization and retooling of plot SPP Peregu Mare within O.U.A.I. PEREGU MARE," beneficiary O.U.A.I. PEREGU MARE
- Modernization and Retooling of O.U.A.I. Motatei Gara, Beneficiary O.U.A.I. Motatei Gara
- Modernization and Retooling of O.U.A.I. Bechet-Ostroveni, Beneficiary O.U.A.I. Bechet-Ostroveni
- Modernization and Retooling of F.O.U.A.I Calafat-Bailesti, Beneficiary F.O.U.A.I Calafat-Bailesti
- Modernization and Retooling of O.U.A.I Macesu, Beneficiary O.U.A.I Macesu
- Modernization and Retooling of O.U.A.I SPP13 Agritoscana Gologanu-Maicanesti, Beneficiary O.U.A.I SPP13 Agritoscana Gologanu-Maicanesti
- Modernization and Retooling of F.O.U.A.I BRADESTI-COTOFENI, DOLJ COUNTY, Beneficiary F.O.U.A.I BRADESTI-COTOFENI



# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Modernization and Retooling of O.U.A.I FARCASELE-TERASA CARACAL, OLT COUNTY," beneficiary O.U.A.I FARCASELE-TERASA CARACAL
- Rehabilitation of the irrigation arrangement Terasa Caracal, Olt County," beneficiary NATIONAL AGENCY FOR IRRIGATION IMPROVEMENTS
- Technical documentation for obtaining the water management authorization and operating regulations for "Thermal Beach Development 1 (Codlea 1), Codlea City, Brasov County" and "Thermal Beach Development 2 (Codlea 2), Codlea City, Brasov County
- Technical documentation for obtaining the water management authorization for the "Multirole National Center," located in Izvorani village, Ciolpani commune, Ilfov County
- Technical documentation for obtaining the water management approval for the "Construction of a Photovoltaic Park," located in Husnicioara commune, Mehedinti County
- Update of the flood susceptibility study for the Tarnaveni site - the area of existing battlefields on the former Bicapa chemical plant platform, Tarnaveni, Mures County
- Update of the operating regulations for the Dambovnica and Suseni dams and reservoirs, Arges County



# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Construction of the Ciocanesti depot, Calarasi County (part 1 - the first cell and auxiliary installations) and the design, construction, and commissioning of the sorting and composting station and the leachate treatment station in Calarasi County
- Rehabilitation/modernization of stormwater drainage installations in underground passages
- Replacement, rehabilitation, and optimization of public water and sewerage networks, installation of drinking fountains, and hydrants for household needs in the Historic Center II area
- Collection and evacuation of rainwater from the Petricani area
- Design services, consultancy, and studies for the preparation of the Feasibility Study for the rehabilitation of wastewater collectors (SF3) LOT 1
- Design services, consultancy, and studies for the preparation of the Feasibility Study for the "Rehabilitation of the Wastewater Treatment Plant - Dambovita (SF4)" LOT 2
- Extensions and/or replacements of public water and sewerage networks (including connections and ties to the meter pits or connections)
- Extension of Public Water and Sewerage Networks - Gradinile Fundeni Area, including branches up to the property limit" Sector 2, Bucharest
- Construction of water supply and sewage networks in the Baicului 2 area, sector 2, Bucharest





# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Elaboration of technical design documentation and obtaining the necessary approvals for the installation of a micro-hydropower plant for harnessing the hydropower potential, Crivina intake, Crivina commune, Giurgiu County
- Diagnosis of the aging effects of concrete at the Paltinu Dam through the determination of inherent vibration characteristics on-site
- Consulting services, technical assistance for the preparation of tender documentation for the Feasibility Study for the investment objective "Renovation, rehabilitation, and consolidation of the shores of Baneasa, Grivita, and Staulesti Lakes - Old Promenade"
- Study on planimetric displacements at the Budeasa Dam – Arges
- Topogeodetic study at the Pecineagu reservoir - Dâmbovița
- Topographical profile measurements upstream-downstream of the Rausor Dam - Arges County
- Design services for investment works in the public water supply and sewage system of Bucharest
- Technical assistance regarding works within NATO military bases in Romania
- Closure of cells 3 and 4 within the Galbinasi non-hazardous waste depot, Buzau County
- Closure of cell II within the non-hazardous waste depot in Ghizela commune, Timisoara County
- Supervision of civil and utility works within the drinking water supply system of the Deveselu military base



# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Expansion, modernization, and equipping of the UPU-SMURD at Zalău Emergency County Hospital, Romania – Zalau
- Construction of an additional floor (P+2) at the West Department parking lot
- Modernization of Tulcea Port from Mm38+1530 to Mm38+800
- Support for preparing the financing application and award documentation for the regional water and wastewater infrastructure development project in Botosani County, during the 2014-2020 period
- Rehabilitation of the main infrastructure in the Latinu Vadeni irrigation arrangement, Braila County
- Rehabilitation of the SRP 1 pumping station, the CA 4 conveyance channel, and the CD 2 and CD 3 distribution channels in the Albița - Falciu arrangement, Vaslui County (rehabilitation of the SPP1 pumping station - flow rate 2,732 mc/h, rehabilitation of the conveyance channel, and distribution channels)
- Technical Assistance for the preparation of financing applications and award documentation for the Cluj-Salaj regional water and wastewater project during the 2014-2020 period," Romania - Bucharest, Cluj
- Rehabilitation/modernization of electrical, automation, and electromechanical installations for stormwater pre-treatment stations



# PROJECT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Framework Water Arrangement Scheme for Romania
- Consultant Panel for Dam Projects & Strategic Irrigations Projects Dams Masterplan for Kurdistan
- Flood Risk Management Plans for 6 out of 11 Hydrographical basins in Romania
- Action Plans in case of Dam Failure for many dams in Romania such as: Paltinu Dam, Maneciu Dam, Frumoasa Dam, Valea de Pesti Dam, Zetea Dam
- Actively contributing to elaboration of Methodologies benefiting from our specialists' expertise:
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- Flood Risk Damage Assessment Methodology – project developed for World Bank.



# WATER MANAGEMENT PORTFOLIO

- Our team of experts successfully elaborated national and worldwide major projects:
- Extension of the public drinking water supply network in the northern area of Bucharest, sector 1 - Dn 500mm on B-dul Bucurestii Noi, between Laminorului Street and Sos. Bucuresti – Targoviste
- Extension of public water and sewerage networks on Suceava, Joagarului, Geamandurii, Clopotiva, Puietilor streets, including connections and ties up to the property limit" Colentina Bridge area, sector 2
- Improvement of the drinking water supply system in Siret town, Suceava County
- Sewer network extension in Targu Frumos town, beneficiary Targu Frumos Local Council
- Technical assistance for the preparation of infrastructure projects financed by the Small and Medium Towns Infrastructure Development Program (SAMTID) Scheme - Phare 2002
- Extension and rehabilitation of the sewerage system in Slobozia Municipality
- Bascov Intersection Passage - Rainwater collection system from the surface of the underpass



# CERTIFICATIONS & AFFILIATIONS



## Accreditations

- ISO 9001 – Quality Management System
- ISO 14001 – Environmental Management System
- ISO 45001 – Occupational Health and Safety Management System
- SA 8000 – Social Accountability Management System
- ISO/IEC 27001 – Information Security Management System
- Land Reclamation and Irrigation Works
- Etc.

## TBL experts are active members of scientific bodies

- Romanian Water Association (ARA)
- Romanian Association of Engineering Consulting (ARIC)
- Romanian Association for Sanitation (ARS)
- Global Water Partnership (GWP)
- Association for Land Reclamation and Rural Constructions in Romania(AICFR)
- Romanian National Committee on Irrigation and Drainage (CNRID)
- Romanian National Commission on Large Dams (CROMB)



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# CERTIFICATIONS



Certificat de Atestare  
nr. 2223/24.10.2019



Certificat de Atestare  
nr. 2551/13.05.2021



Certificat de  
Inregistrare a mărcii  
Nr.165230  
SMART LAND



Certificat de  
Inregistrare a mărcii  
Nr.165433  
DIGITAL LAND



20083  
Proiectare instalații gaze  
naturale - PPI



20084  
Proiectare sisteme de  
transport al gazelor  
naturale - PT



20085  
Proiectare sisteme de  
distribuție a gazelor  
naturale - PDSB



20088  
Execuție sisteme de  
transport al gazelor  
naturale - ET



Autorizație de Prelucrare  
Arhivistică nr.  
31/20.05.2019



Autorizație de Legătorie  
nr. 32/22.05.2019



Elaborator Studii  
de Mediu



Elaborator  
Rapoarte de  
Mediu



20086  
Proiectare instalații  
de utilizare a gazelor  
naturale - PDIB



20087  
Execuție conducte de  
alimentare gaze naturale  
- EPI



20089  
Execuție sisteme de  
distribuție a gazelor  
naturale - EDSB



20090  
Execuție instalație  
de utilizare a gazelor  
naturale - EDIB



Acord Tehnic Feroviar  
Seria AT nr 274/2023



Autorizație de Furnizor Feroviar  
Seria AF nr 8911



Certificat de Atestare  
seria Ff nr.  
645/20.08.2020



Certificat ISO 9001



Certificat ISO 9001  
extins IF



Certificat ISO 14001



Certificat ISO 14001  
extins IF



Certificat ISO 45001



Certificat ISO/IEC  
27001



Autorizare Clasa I



Autorizare Clasa III

# CLIENTS



Primăria  
Abud



Primăria  
Adjud



Primăria  
Aiud



Primăria  
Alba Iulia



Primăria  
Alexandria



Primăria Stântu  
Gheorghe



Primăria  
Sibiu



Primăria  
Sighişoara



Primăria  
Târgovişte



Primăria  
Târgu-Neamţ



Primăria  
Arad



Primăria  
Baile Govora



Primăria  
Băicoi



Primăria  
Bocşa



Primăria  
Brăila



Primăria  
Timişoara



Primăria  
Tulcea



Primăria  
Turda



Primăria  
Vaslui



Primăria  
Voluntari



Primăria  
Câmpia Turzii



Primăria  
Ciacova



Primăria  
Cluj Napoca



Primăria  
Constanţa



Primăria  
Comarnic



Consiliul Judeţean  
Alba



Consiliul Judeţean  
Brăila



Consiliul Judeţean  
Constanţa



Consiliul Judeţean  
Giurgiu



Consiliul Judeţean  
Gorj



Primăria  
Corabia



Primăria  
Craiova



Primăria  
Deta



Primăria  
Deva



Primăria  
Focşani



Consiliul Judeţean  
Harghita



Consiliul Judeţean  
Hunedoara



Consiliul Judeţean  
Ialomiţa



Consiliul Judeţean  
Iaşi



Consiliul Judeţean  
Prahova



Primăria  
Galaţi



Primăria  
Giurgiu



Primăria  
Hunedoara



Primăria  
Ineu



Primăria  
Medgidia



Consiliul Judeţean  
Sălaj



Consiliul Judeţean  
Sibiu



Consiliul Judeţean  
Suceava



Consiliul Judeţean  
Timiş



Consiliul Judeţean  
Vrancea



Primăria  
Miercurea-Ciuc



Primăria  
Mizil



Primăria  
Nădlac



Primăria  
Ocna Mureş



Primăria  
Oradea



Primăria  
Bistra



Primăria  
Cetatea de Baltă



Primăria  
Ciugud



Primăria  
Ciuruleasa



Primăria  
Băile Govora



Primăria  
Orăştie



Primăria  
Panciu



Primăria  
Râşnov



Primăria  
Reghin



Primăria  
Sebeş



Primăria  
Livezile



Primăria  
Mogoş



Primăria  
Pianu



Primăria  
Şibot



Primăria  
Stremţ

# CLIENTS







**TOTAL BUSINESS LAND**



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**[contact@tblgrup.ro](mailto:contact@tblgrup.ro)**