

# MOU between NWWEC and the BDZ Association of Germany



In the context of the mission and strategies of the National Water and Wastewater Engineering Company and to enhance the executive procedures and to adapt the equipment and parts with local conditions; and further to strengthen the status of applied research and communication and interaction between industries and academic centers (domestic and international) in water and wastewater sector, and based on the memorandum of understanding between this Company and the BDZ Association of Germany (during the IFAT Exhibition in May 2014 in Munich) signed by the Company's Managing Director as well as the discussions and actions taken to enter into contract with BDZ, a contract for provision of services in two parts 1) provision of services for construction and launching of site for demonstration of semi-centralized and decentralized wastewater treatment processes and 2) cooperation in development of human resources in technical, scientific, economic, social and environmental issues with the collaboration of BDZ was prepared and signed with the representative of the Association.

Following numerous correspondences with the BDZ representatives and submission of the South Tehran Wastewater Treatment Plant, the structural documentation related to the construction of the site for demonstration of semi-centralized and decentralized wastewater treatment processes was sent by Dr. Mohajeri (the representative of German Water Partnership) and it was arranged for the representatives of the mentioned Association to visit the site. This visit took place from 14th to 17th February 2015.

A meeting was held between the above team composed of Dr. Mohajeri (the representative of German Water Partnership), Dr. Wummel and Dr. Muller (Representatives of BDZ) and Mr. Kashfi and the Managing Director of Tehran Sewerage Company in the National Water and Wastewater Engineering Company on the objectives of the Tehran Sewerage Company in creating the training and demonstration site, and it was decided that the services would be provided in two separate parts 1) provision of services for construction and launching of site for demonstration of semi-centralized and decentralized wastewater treatment processes and 2) cooperation in development of human resources in technical, scientific, economic, social and environmental issues for semi-centralized and decentralized systems of wastewater discharge. Given the large volume of issues in both the subjects, the discussions were first focused on the construction and launching of the demonstration site and in the event of the agreement, the negotiations would continue on the second part as well.

▲ **The main objectives of establishing the mentioned center were:**

- Presenting and exhibiting the new technologies in treatment of domestic wastewater.
- Introduction of processes for removal of new contaminants
- Introduction of technologies related to towers and commercial and business complexes
- Execution of a pilot project on the pre-treatment required by different centers and industries

▲ **The process for implementation of the first part of the contract was defined in the following 5 steps and incorporated in the draft contract:**

- Step 1: Design and identification of semi-centralized and decentralized wastewater technologies and processes
- Step 2: Siting of the selected processes and specifying the courses for the inflow and outflow of each system, as well as siting the safety, monitoring, control and warning systems
- Step 3: Preparing and presenting the detailed design along with the executive plans for the technologies, and presenting all the executive plans (building, electrical, mechanical and process maps)
- Step 4: Construction and supervision
- Step 5: Operation and conduction of executive and operational tests.

