

ABSTRACT

Report on Mianeh-Bostanabad-Tabriz Railway

Today, the important role of transportation network as one of the most vital infrastructures of every country is fully recognized. Having a safe suitable transport system is, certainly, one of the most essential criteria for socio-economic development of society. Lack of an extensive efficient transport system has always been among the key reasons of underdevelopment of societies. In this regard, railway is one of the safest transport methods which constitutes a great portion of transit network in the developed countries. Considering our country's geographic location, railway transport method can enjoy an especial standing in the international commerce and transport of goods, provided that, substantial investment is devoted to this section. The double-line railway of Mianeh-Bostanabad-Tabriz, the most important railway construction project in the northwest of Iran, is one of the projects to develop the railway transport network, a report of which is presented in this edition.

Utilization of cathodic protection to control reinforced concrete structures in aqueous environments

Corrosion of reinforcements is one of the most prevalent mechanisms responsible for destructing concrete structures in aqueous environments. High permeability of concrete, construction deficiencies, and insufficient thickness of reinforcement's concrete covering are among qualitative problems resulting in intrusion of salt and moisture. Concrete structures are considerably damaged owing to high salt concentration and moisture content. It has been proved that customary methods of concrete rehabilitation are of no help in controlling corrosion in such environments. In the past decade cathodic protection has been widely applied to control corrosion of reinforced concrete structures in aqueous environments. Regardless of salt concentration of the concrete cathodic protection can inhibit steel corrosion. Protection systems based on sacrificial anodes and anode currents are successfully applied throughout the coastal structures.

Oil, gas, and petrochemistry perspective; interview with Mr. Sha-afi

Mr. Sha-afi was born in 1961 in Maragheh. He took primary and secondary education in Tehran and Tabriz, respectively, and in 1985 earned a Bachelor's degree in Civil Engineering from Tabriz University. His educational background also includes a Master of Science degree in structural engineering at Polytechnic University, Master of Science in executive management at Industrial Management Organization, and participating in an advanced management program on major plans at association of education grants in Japan. Mr. Sha-afi acted as the deputy managing director of Poulad consulting Engineers for 9 years, managing director of Arya Builders for 2 years, and manager of Rahbord Farafan for many years. Since 2004, at Qods Niroo Consulting Engineers, he has been the deputy manager of the large project of fifth trans-Iranian gas pipeline. Additionally, Mr. Sha-afi has been active in teaching management at universities, societies, and associations. Alumni association of Engineering Faculty of Tabriz University has long enjoyed his advisory as well as educational assistance. Due to strategic importance of oil and gas industry and thanks to of Mr. Sha-afi's in-depth knowledge and valuable management experience, we paid him a visit to better familiarize ourselves with major management issues in the filed of oil and gas industry including present complexities and necessity of international interactions in large projects.

