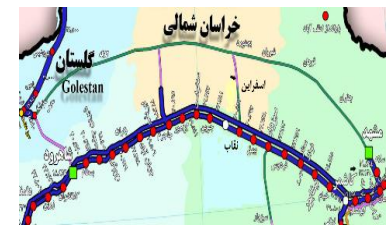


Studying the superstructure, electrical signalling, and communications of the Esfarayen – Bojnord cities railroad

- Superstructure studies
 - Presenting the KMZ file
 - Presenting a summary of the preliminary phase
 - Designing the superstructure tools
 - Suggesting the tests of ballast rocks
 - doing researches in order to select the suitable mines
 - presenting plans in UTM coordination format
- Fleet studies and maintenance needs
 - Presenting a summary report about technical aspects of the project
 - Determining the numbers and general information of passenger trains
 - Estimating the required machinery
 - Locating the places of facilities
- Operation phase studies
 - Determining the right alignment of freight trains and passenger trains
 - Presenting the stimulation calculations
 - Providing the longitudinal profile maps
- Station studies
 - Mentioning the location of switches
 - Presenting the table of switches details
 - Mentioning the line numbers in the station's railroad
- Superstructure implementation studies
 - Presenting a report about the implementation method
 - Presenting the list of required machinery
- Sign and communication studies



Date: 2018/Ongoing

Location: Esfarayen – Bojnord

Client: Construction and Development of Transportation Infrastructures Company