

Providing Regulation and instructions for a number of Tehran Municipality rules

- Collecting data from the contract content
- Reviewing the actions and experiences of other organizations
- Reviewing the actions and experiences of other countries
- Field researches and analyzing the feasibility of the current situation
- Setting up professional meetings and asking for suggestions from Experts, consultants, and municipality personnel
- Setting up workshops
- Finalizing the edits based on suggestions
- Guarantying the quality



Date: 2016

Location: Tehran

Client: Tehran Municipality



Rahyab Behineh
Consulting Engineering

Railway

Management Consulting

Provision of Feasibility Study for buying 100 (6 seated) and 8 generator wagons.

- Follow up to approve the design
- Calculation of the design's cash flow
- Providing the design's feasibility study (approved by banks and etc.)



Date: 2011/2012

Location: Tehran

**Client: Tosse, e tarabar Iranian
investment group**

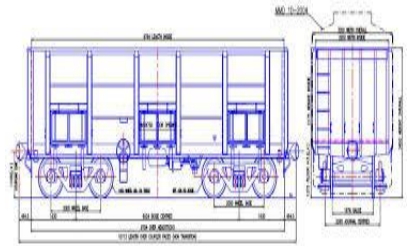
Provision of Regulating services for the instructions and checklists for wagon maintenance and manufactured parts

Rahyab Behineh Consulting Eng. was assigned by Iran National Railway's(IIRR)Department of Freight wagons to provide unified, standard and comprehensive checklists and instructions for supervision of wagon's maintenance done by private contractors. The aim of providing such documents was to ensure the quality of maintenance done by contractors in addition to provide all stakeholders with unified and standard procedures for the maintenance of mentioned rolling stock.

These documents help the owners of wagons to know what to expect from contractors, help the contractors to follow standard maintenance procedures; and help the supervisors to check the quality of the maintenance as well as the spare parts used in them .

The documents including instructions and checklists were provided in 5 distinct categories:

- Car body and chassis (Covered Wagons, Flat Cars, Open top cars, Gandola cars etc.,) in addition to their Overhaul checklists
- coupling devices (SA-3 couplers, ringfeder Unicouplers, Miner Unicouplers, French willison Couplers, Indian Willison Couplers, Screw Couplers, LAF Screw Couplers)
- Bogies(Frame and leverage of Bogies H-665, 18-100, 3-axle parsi, Romanian new and old H, Y25LSD1, Y25R2A ,Y25CS)
- Braking Systems (under chassis braking leverage, different distribution valves, different types of break adjuster)
- Wheels sets & Bearing Boxes (including flange replacement, wheel welding, wheel profile lathing, NDT tests, Overhaul of bearing box and journal box, replacement of wheelset)



Date: 2016/2017

Location: Tehran, Iran

Client: I.R.I. Railway Co.

Providing instructions for Financing the Construction of National road and transportation infrastructure Development Projects through banks, Financial institutions and other financial resources in Iran

- Process Mapping of Construction of Development project from idea to final delivery to National Authorities
- pinpointing the processes, the road and transport administration should be involved in through reporting or direct supervision or other methods.
- Regulating the processes and requirements of ensuring the accountability of the general contractors in each phase of Engineering, Construction and operation of the project up to the point of delivery to the Authorities
- Delivery of Forms, checklists and instructions for each phase of the projects



Date: 2016

Location: Tehran

**Client: Ministry of Roads &
Urban development**

Designing the comprehensive system of interactions among the stakeholders of Wagon Maintenance in I.R.I

We cooperated on this project with the German Company Roland Berger

Identification Phase:

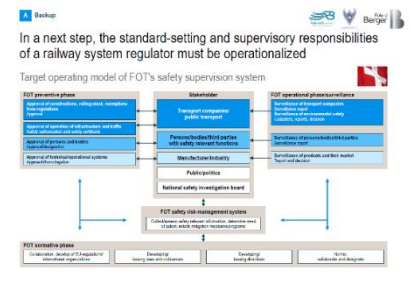
- Identifying stakeholders and the current condition (their role and importance)
- Data gathering, and listing the work history related to the project
- Reviewing standards, provisions and analyzing the current situation
- Establishing the effective measuring index
- Making a report of stakeholders actions and their process
- Making a report of the existing conditions of stakeholders and partners cooperation

Analyzing phase:

- Maintenance and repair activities checklists for F/P trains
- Strengths and weaknesses of the current M&R system
- Reviewing the similar M&R systems in the world
- Establishing the fixed points for designing the new systems for Rolling Stock's M&R
- setting Strategies and methodology of the new M&R systems
- Concluding and reporting results

Design phase:

- The roles of stakeholders and their activities in the new system of interactions
- Stakeholders interactions and their partnership pattern in the new system of interactions
- Presenting the comprehensive system of interactions
- Providing instructions and provisions for stakeholders
- Comparison of the new model with the existing one and highlighting the issues and failures
- Providing the framework and requirements to develop software for the new system
- Developing the privatization model for Rolling Stocks M&R



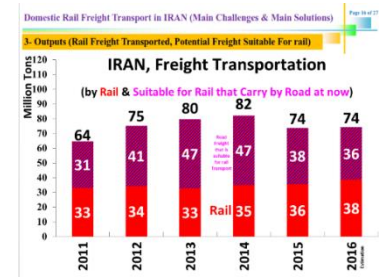
Date: 2014/2016

Location: Tehran

Client: I.R.I Railway Co.

Rail Cargo Pricing System Design

- Evaluation of Iran's railway current pricing system as well as the same for foreign countries
- Evaluating Iran's railway network systematical boundaries
- Analyze the pricing mechanisms of cargo for other modes of transportation
- Classify major and minor parameters into separate categories
- Design of the optimum pricing system for Rail Cargo in Iran Freight Transportation



Date: 2013/2015

Location: Tehran

Client: RTC Guild

Developing the safety index for I.R.I Railway Network

In this project, RAHYAB BEHINEH studied the safety issues in the railway maintenance and operation related to each operational region considering the different conditions.

In this investigation we have studied the fundamental of safety parameters reviewing the current safety condition, performing data collection, data analyzes, and developing new statistical indicators to measure the existing safety level. Also, RAHYAB BEHINEH suggested appropriate tools and equipment to record and calculate newly developed indices to enhance railway safety in each operational region.

- The main tasks involved are as the following:
- Reviewing the current situation
- Studying the effective parameters for safety evaluations
- Statistical studies on available data and setting the right statistical indicators
- Providing the right equipment for collecting, measuring and analyzing the data
- Evaluating Iran's Railway areas and presenting safety records
- Presenting reports and support services
- Reviewing the current system of repair and maintenance for cargo and passenger Railway vehicles
- Analyzing the points of Strengths, weaknesses, opportunities, and threats (SWOT)
- Setting Qualification conditions for manufacturers of spare parts, general contractors and supervisors
- Qualifying the registered companies
- Presenting the new system of interactions to the qualified companies
- Hold Training courses for stakeholders to learn about new system
- Managing the Implementation of the systems, following the ISO 2008-9001 for all stakeholders



Date: 2015/ongoing
Location: Tehran
Client: I.R.I Railway Co.
Co.

Provision of Engineering and consultant services for preparing tender documents, controlling agreement and contract

The main Engineering and consultant services include:

- Provide Annual Financial plans, budgeting, and planning the time schedules
- Ensure effective Time management of the projects
- Ensure Cost management of the projects
- Provide Process management of procurement inquiries



Date: 2014/2016

Location: Tehran

Client: I.R.I Railway Co.

Providing instruction and guidelines for temporarily and permanently commissioning of Tehran's newly built or renovated road and technical buildings delivered from contractors to Tehran Municipality

- Investigate the process of temporarily and permanently deliverance of municipally based projects
- Gather and analyze technical issues of delivered bridges and other facilities
- Providing major parameters for testing the safety and quality of the road and buildings in specific categories
- Analyzing the data gathered and eventually presenting the relevant checklists and instructions



Date: 2014/2017

Location: Tehran

Client: Tehran Municipality

Design a Comprehensive system for operation of Siemens/Mapna locomotives

Designing the system on how to operate 150 Siemens locomotives manufactured by Mapna Co. including conductor training packages, running drivers' eligibility tests, hire drivers, design and implement driver's time schedules.

Providing methods to effectively decrease the training time of the drivers

Running financial and economic Studies of the project

Running feasibility studies and Calculation of Profitability of the designed system



Date: 2017

Location: Tehran

Client: Mapna Group

Providing the Feasibility Study for buying 2000 freight trains

- follow up in order to approve the plan by the Islamic Republic of Iran Railways (IIRR)
- Providing the design's cash flow
- Providing the Feasibility study for the project (approved by banks)



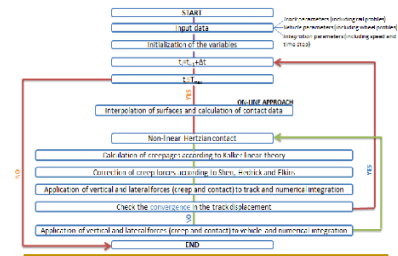
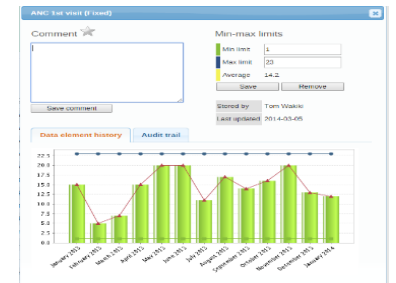
Date: 2011/2012

Location: Tehran

**Client: Tosse, e tarabar Iranian
investment group**

Coding, preparing, inserting, controlling, and correcting the data input and output for the I.R.I railway company spare parts

- Coding three fields of information (Descriptions of parts, location of deployment, the providers name)
- Separating and organizing the data input and output of the railway company properties based on company's 17 data layers
- Preparing, inserting, listing, controlling, and correcting the reports
- Determining the rate and type of depreciation of properties based on Ministry of Economic Affairs and Finance charts
- Determining the depreciation rate and putting it in the related field



Date: 1997/1998

Location: Tehran

Client: I.R.I Railway Co.

Design and regulate the quality Control system for SAPCO

- Investigate the process of temporarily and permanently deliverance of municipally based projects
 - Gather and analyze technical issues of delivered bridges and other facilities
 - Providing major parameters for testing the safety and quality of the road and buildings in specific categories
 - Analyzing the data gathered and eventually presenting the relevant checklists and instructions



Date: 1997/1998
Location: Tehran
Client: Sapco

Provision of studies on technical and operational Regulation of the locomotive maintenance system

Feasibility phase: project overview

- Research method and selecting the right tools
- Describing the scope of the project as well as limits and priorities
- Providing and presenting an overview of the project

Preliminary phase: project identification

- Introductory meeting with stakeholders

Identifying the current technical situation

- Obtaining the opinion of managers, experts, policy makers, and the government
- Identifying, collecting, and analyzing the provided data
- The necessities and needs for the maintenance and repair of locomotives
- Reviewing the current conditions of maintenance and repair
- Reviewing and identifying the conditions of repair workshops
- Providing and presenting an identification report

Identifying the existing contract conditions

The system's condition

Identifying the current regulations for privatization

SWOT analyze of the current situation

Design phase

- Selecting the final design
 - Determining and confirming the strategies of maintenance and repair
 - Scenario making
 - Comparing the scenarios and selecting the best one
 - Making the detailed design of the selected Scenario
- Technical suggestions
- Contract suggestions
- Systematic suggestions
- Privatization suggestions



Date: 2018/Ongoing

Location: Tehran

Client: I.R.I Railway Co.