

Project Objectives

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Team ID	PNT2022TMID41891
Project Name	Smart Solutions For Railways
Maximum Mark	4 Mark

Introduction

The Indian Railways have one of the largest skilled, dedicated and qualified pool of professionals in the country. The rail sector is superior to other modes in terms of safety, environmental and noise pollution, energy consumption and land requirement. Public expects very high standards of safety from the Railways.

Railway Safety

Railway Safety Review Committee (1998), in Part-I of its report recommended, inter-alia, that Railways should formulate a Safety Plan. It says :

"Railways should immediately make out a Comprehensive Corporate Safety Plan which will clearly state:

- Safety policy/objectives & strategies for achieving them
- Unambiguously enunciate basic tenets & requirements of safety
- Prioritize safety-related works and indicate timeframe, investments proposed, and set bench marks for safety achievements"

Area to Cover

Following areas have been identified, being of particular importance, for which targets are to be laid down :-

- Passenger safety
- Road users safety
- Quantitative reduction in accidents
- Improving asset reliability
- Prompt rescue and relief operations

Plan Objectives

The Safety Plan will have the following broad objectives:

- To achieve reduction in rate of accidents per million train kilometers from the present level of 0.44 to 0.17 by the year 2013
- Implement measures to reduce chances of passenger fatality substantially in consequential train accidents by 2013
- Focus on development of manpower through major improvements in working environment and training to reduce the accidents attributable to human failure by 40% by 2013
- Achieve safety culture on all fronts including maintenance depots, worksites, stations, controls etc
- Progressively achieve an environment of "Fail-proof" from the present "Fail-safe" system of asset failures by upgrading the systems by 2013
- Prioritization of safety related projects
- Implementation of accepted recommendations of RSRC at an accelerated pace

The following requirements would need to be met to achieve these objectives:

- Safety should take **priority over other considerations**
- Responsibilities should be clearly assigned.
- Every railway zone should introduce **clear safety management plan**.
- Qualitative changes should be brought about in the human resource development.