

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID13882
Project Name	Project – Smart solution for railways
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Safety concerns due to Ageing infrastructure lacks Of sophisticated safety Systems and unmanned level Crossings.
2.	Idea / Solution description	Augmented Reality and Holographic Projection for Rail,3D Laser Scanners,Thermal and Visual Imaging Equipment,Interactive Windows,Digital Twin Models,The Internet of Trains
3.	Novelty / Uniqueness	Their Eco Driving system enhances the energy efficiency of all rail vehicles and helps optimize energy usage by automatically controlling the usage or suggesting actions like slowing down, speeding up, maintaining a constant speed or controlling heating and cooling.
4.	Social Impact / Customer Satisfaction	Railways stretches its hands in conducting activities like business, sightseeing, pilgrimage along with transportation of goods. It is easier for long-distance travel. Plays a vital role in national integration. It strengthens the development of the industry and agriculture.
5.	Business Model (Revenue Model)	The Indian Railways is facilitating the completion of more projects through the Public Private Partnership (PPP) model after finding it successful in providing last mile rail connectivity to ports and industrial clusters.
6.	Scalability of the Solution	As it is digitalized, it's not a big issue in recent days.