

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID48351
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)	To maintain the tracks, repairs and services to avoid accident, safeguard of things, track the running status of the train in smart railway system .
2.	Idea / Solution description	By using IR sensors to detect objects in the surroundings, GPS tracker used to track the fault in track, Using Ultrasonic sensor to detect the crack in rail track with measuring the distance from the track to sensor to reduce the accidents.
3.	Novelty / Uniqueness	Visualize the 360 degree view of the train and surrounding around it through our mobile.
4.	Social Impact / Customer Satisfaction	To reduce the sudden accidents, check whether the train is in right time and location, travel in low cost, safety and reliability.
5.	Business Model (Revenue Model)	Product and service sales to Indian railways User booking and Scheduling Service
6.	Scalability of the Solution	Both passenger and railways must continually improve, innovate and enhance the traveller and customer experience to drive revenue, maximize the availability of assets and infrastructure, and improve operational efficiency.