PROJECT DESIGN PHASE – 1

PROPOSED SOLUTION

DATE	09 October 2022
TEAM ID	PNT2022TMID33708
PROJECT NAME	Smart Solutions For Railways
MAXIMUM MARKS	2 Marks

S.NO	PARAMETER	DESCRIPTION
1.	Problem statement (problem to be solved)	A Large number of miscellaneous problems include <u>late</u> running of trains, lack of passengers facilities including cleanliness at the railway stations, lack of security arrangement on the railways resulting in theft and dacoities ,etc..
2.	Idea / solution Description	• Automation • Accessibility and Affordability • Integration • Digitalization • Sustainability
3.	Novelty / Uniqueness	Smart solution for railways brings together advanced technologies such as sensor , communication , computing and intelligent control to address various aspects of railway systems,such as train and control dispatching,infrastructure inspection,customer service.
4.	Social Impact / Customer Satisfaction	The construction and operation of the railways has degraded, fragmented and destroyed key ecosystems . it increased soil erosion,land degradation , flooding and habitat destruction. It also affected water bodies and wildlife movement.

5.	Business Model (Revenue Model)	• Key partners • Key activities • Key resources • Value propositions • Customer relationships • Customer segments • Channels • Cost structure • Revenue streams
6.	Scalability of the Solution	Railway operations require control system to ensure safety and efficiency and to coordinate infrastructure elements such as switches, signals and train protection.