PROJECT DESIGN PHASE – l

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| DATE | 27 SEPTEMBER 2022 |
| TEAM ID | PNT2022TMID36774 |
| PROJECT NAME | Smart Solutions For Railways |
| MAXIMUM MARKS | 2 Marks |

PROPOSED SOLUTION TEMPLATE

Proposed solution template:

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

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| S.NO | PARAMETER | DESCRIPTION |
| 1. | Problem statement (problem to be solved) | A Large number of miscellaneous problems include late 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 andintelligent 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 enusre safety and efficiency and to coordinate infrastructure elements such as switches, signals and train protection. |