**LITERATURE SURVEY**

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| **TITLE** | **AUTHOURS** | **YEAR** | **TECHNIQUES** | **FINDING/PROS/CONS** |
| A Critical review of sensor for the continues monitoring of smart and sustainable railway infrastructures | Castillo-Mingorance,  Juan Manuel | 2020 | Real-Time monitoring; rail track sensor; smart infrastructure; structural health monitoring; review | Identifying and studying the main modes of railroad failure through the literature review of scientific indexed journals as well as technical reports. |
| Smart railway sleeper-a review of recent developments, challenges, and future prosoects | Jing, Guoqing and Siahkouhi,  Mohammad and Edwards | 2021 | Smart railway sleepers, Sustainability design; Self-Sensing;  Structural health monitoring ;high speed railway; concept sleepers | the application of smart sleeper technologies include the use of intrinsic self-sensing concrete, adding self-healing features, taking advantage of recent wireless sensing developments, and connecting with the emerging use of Internet of Things (IoT) technology. |
| Wireless Sensor network:Towards smarter railway ststion | Alawad,Hamad | 2018 | railway station; wireless sensor network WSN; security and safety in a railway station; smart railway stations; railway data; machine learning in railway stations | use in railway station systems, including advanced WSNs, which will enhance security, safety, and decision-making processes to achieve more cost-effective management in railway stations, as well as the development of integrated systems |
| A review of online dynamic models and algorithms for railway traffic management | Corman ,Francesco and Meg , Lingyun | 2014 | high-speed rail; artificial intelligence; smart planning; intelligent control; intelligent maintenance | The related disciplines in HSR where AI may play an important role, such as civil engineering, mechanical engineering, electrical engineering and signalling and control. |