V.S.B College of Engineering Technical Campus
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Department of Information Technology

IBM- NALAYA THIRAN

TITLE : **Smart Solutions For Railways**

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LITERATURE SURVEY

1)

TITLE: Smart Solutions For Railways

AUTHOR: Sushant M. Gajbhiye , Raju A. Bondre ,

Zen P. Raut

DESCRIPTION:-

The main purpose of this research paper is to reduce the railway accidents occurring at the level crossings (Intersection Points). Railway is the vast mode of the transportations in India and it is the cheapest way for travelling. So there are more numbers of rail users and it is not easy to stop railway anywhere to obstruct accident, due to that there are major drawbacks of that. At present anunmanned system is available at level crossings and hence, lots of accidents occur at such crossings, since there is

no one to take responsibility of the functioning of the railway gate when a train reaching the crossing.

2)

TITLE:- Series of Injury because of Transport Accidents Involving Railway Train

AUTHOR: Barry Jesia G and Harrison James E (2008)

DESCRIPTION:_-

He entitled "Series of Injury because of Transport Accidents Involving Railway Train", he analyzedand compared the train accidents, hospitalization keep, etc. It gets in to additional description of statistics. The danger of significant injury, based on distance cosmopolitan, is ten times bigger for passengers travel by automotive compared with passengers travelling by rail. The mean length of keep in hospital for a transport accident involving a railway train was four days that were longer than the mean length of keep for all External causes of injury

3)

TITLE:- Advanced Railway accident prevention System Using Sensor Network

AUTHOR: Anil M.D.et al (2014)

DESCRIPTION:-

In that he talk about increased rail traffic density across the world and in such circumstances how to control. This system makes usesof

IR sensors, fire sensor, Zigbee and embedded systems which preventaccident. When the train arrival at a distinctive side then transmitter IRsensors create their suitable hint and then at the equal time the receiverIR sensor receives their indication and makes railway into stopping position

4)

TITLE: Automatic track inspection in railway network

AUTHOR: Ramesh S. Et al (2014)

DESCRIPTION:-

He stresses the reliability on safety Parameters in Indian rail system thereby causing rail accidents. The main problems about railway analysis is detection of crack in the structure .this project proposes a cost effective solution to the problem of railway track crack detection utilizing RF control assembly which track the exact location of faulty track which then mended immediately so that many lives will be saved.

REFERENCE:

- Ahmed salihMahid. Al-Zuhairi,"Automatic Railway Gate and Crossing Control based Sensors and Microcontroller", International Journal of Computer Trends and Technology (IJCTT) - Volume 4, Issue 7, July 2013.
- Anil M.D et.Al. (2014), Advanced Railway Accident Prevention System Using Sensor Networks, International Journal of Advanced Research In Computers And Communication Engineering, ISSN-2278- 1021,Volume - 3, Issue- 5.

- Barry Jesia G & Harrison James E (2018), Series of Injury Due To Transport Accidents Involving Railway Train, 2001-2002 to 2005- 2006, Injury Research Statistics Series Number 43(CAT No. INJCAT), ISSN-1444-3791