**LITERATURE SURVEY ON SMART SOLUTION FOR RAILWAYS**

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The iot solution applied for smart railways makes it easy to grasp the information distributed over a wide railway area.Most of the people choose this

transportation mainly for low cost and it gives comfort ability.To increase this comfort zone and to reduce the number of accidents,iot gives complete solution. Most of these accidents occurs at railway gate level crossings.

It also involves monitoring process to detect the fault in sensors.

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| **TITLE AND AUTHOR** | **YEAR** | **TECHNIQUE** | **FINDINGS** | **PROS AND CONS** |
| Internet of things for smart  railways:Feasibility and applications  ohyun jo, member IEEE  gong-kyu kim | 2017 | Internet of things | The iot solution for the enhanced condition  based maintanence in railways.  performance comparison of candidates for the iot network. | The iot can bring the  effect of cutting the cost which can be more than hundred of million dollars evice  m needs to t various  nication mes and  it design me to  ve low power umption and  reliability |
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| Automatic railway track crack detection system.  sampada kailias bhamare  Ravina dilip arote | 2018 | Internet of things | Addressing the issue by developing an automatic  railway track crack detection system integrating an infrared red (IR) crack  sensing module | crack is detected  It is not fully automatic |
| Review on railway track crack detection using ir transmitter and receiver  Rakesh V. Pise1, Parag D. Nikhar2, Prof. Avinash H. Shelar3 | 2017 | Internet of things | The defect information can be wirelessly transferred to railway safety management centre using a GSM module | Cost of the unit is less when compared to other  , No ﬁre hazard problem due to over  loading |

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|  |  |  |  | It cost is very high, sometimes signal receive not properly |
| Robust Railway Crack Detection Scheme (RRCDS) Using LED-LDR Assembly | 2012 | Internet of things | robust solution to  the problem of railway crack detection utilizing | cost is effective  In this the range IR sensor is very less |
| Gourav saha,  vaidehi,vigneshwar murali |  |  |  |  |