

## **Achievements of 2022**

1. Reorganization and restructuring of RDSO was carried out in line with the reorganization of Railway Board.
2. RDSO Design inputs were used in the development of Vande Bharat 2.0 Train Set.
3. Train Collision Avoidance system (KAVACH) of Phase-II was developed
4. Design and Specifications development of Hydrogen fuel cell based 1600 HP DEMU Train took place.
5. RDSO developed designs of Power Cars with underslung DA sets.
6. A Design Automation Tool for Electronic Interlocking was developed in close cooperation with CRR at IIT Kharagpur.
7. Development of Fibre Bragg Grating (FBG) Based WILD System was carried out with Industry academia Partnership and a joint patent was filed.
8. An Anti-Viral System in AC Coaches was designed for trains through collaboration with CSIR
9. A Compendium for Road Over Bridges (ROBs) on Indian Railways crossings was issued
10. A new Design of Foot Over Bridges ( FOBs) with Tubular Section with considerable weight reduction was developed.
11. Design of Longest Ever Road Over Bridge ( ROB) of 102m was undertaken at RDSO
12. Design of Towers and Monopoles for Indigenously developed Train Protection System TCAS was completed
13. Development of Track components viz. Canted turnouts and Weldable Cast Manganese Steel (CMS) crossings
14. Procurement and commissioning of Track Recording Cars for Integrated Track Monitoring system (ITMS) was done for the first time
15. Design and development of ACT-I Wagons for Auto car (SUV) carrier was completed
16. Development of Roll on Roll off (RO-RO) Wagon
17. Indian Railway Schedule of Dimension (IRSOD)(BG) 2004 was revised
18. Research Studies in Traffic & Psycho-Technical areas of Analysis of SPAD and intervention techniques' & 'Customer Service Review' of Vande Bharat Express were carried out.