ENVIRONMENT FRIENDLY MEASURES

- **Bio Toilets:**
  - Prevents human waste to fall on Railway tracks and thus keeps station premises and the tracks clean.
  - Upto March 2018, more than 126700 bio-toilets have been installed in nearly 34800 coaches.
  - IR has planned to provide bio-toilets in its entire coaching fleet by 2019.
  - Sensitive to misuse - Passenger awareness programme are frequently launched to avoid its becoming dysfunctional due to throwing of waste items.

- **IR Water Policy:**
  - IR water policy was released by Hon’ble MR on 22.03.2017 on the occasion of World water day. It requires the following actions-
    1. Preparation of water management plan by each division/wporkshop
    2. Upgrading water supply systems
    3. Water audits
    4. Rain water harvesting
    5. Waste water management
    6. Use of Water efficient fittings
    7. Water recycling plants

- **Rain Water Harvesting:**
  - During 2017-18, Roof top rain water harvesting installed at 903 locations with buildings having roof top area of more than 200 sqm.
  - For 2018-19, 1868 locations has been planned.

- **Water Recycling Plants:**
  - Being provided at major consumption centres (Stations / Sheds)
  - 59 WRPs have been set up till March, 2018
  - Commissioning of 37 WRPs have been planned during 2018-19

- **Water Bodies:**
  - As on March 2018, 1559 water bodies are functional.
  - All water bodies on Railway land are being protected and nurtured.

- **Water Audits:**
  - To assess the wastage of water, audits at major consumption centres are being undertaken through third party.
  - 257 water audits have been completed upto March 2018.
  - Water audits planned at 106 locations during 2018-19

- **Afforestation:**
  - Helps in achieving carbon sink as well as safeguard against unauthorized occupation.
  - 89 Lakh saplings planted during 2017-18
Planning to plant 1.65 Crore saplings during 2018-19

Solid Waste Management:
- Segregation into Bio-degradable, non-biodegradable and hazardous waste
- Pilot project for disposal and conversion of waste into energy plant at Jaipur and New Delhi.
- Integrated waste management system commissioned at ICF, Chennai with approx. 6 MT per day bio-degradable waste from colony is converted as compost.

Environment Management system (EMS) / Integrated Management system (IMS) Certification
- 8 production units and 42 major workshops are certified to ISO: 14001

Energy Management System
- All 8 production units and 41 major workshops have been certified with ISO:50001- Energy Management system showing commitment to energy conservation and energy efficiency.

Noise Reduction in Power Car
- With provision of acoustic panel and reorientation of radiator assembly, noise reduction to a level of 81 dBA achieved from 99 dBA.

Plastic bottle crushing machines – installed at a no. of stations

Sanitary Pad vending machines and Incinerators – installed at no. of stations