* **SALIENT FEATURES (As on 31.03.2024)**

**1. TRAIN LIGHTING & AIR CONDITIONING**: **(As on 31.03.2024)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Particular** | **PUI** | **BBS** | **SBP** | **WAT** | **Total** |
| 1 | No. of TL coaches in services | 709 | 332 | 243 | 765 | 2049 |
| 2 | No. of AC coaches in service | 597 | 428 | 68 | 562 | 1655 |
| 3 | No. of Exp rakes maintenance at depot | 44 | 23 | 10 | 42 | 119 |
| 4 | No. of passenger trains/rakes maintenance at depot | 1 | 0 | 8 | 6 | 15 |

**2. GENERAL POWER SUPPLY & SERVICES**

1. **Assets of General Power & Services (As on 31.03.2024)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Particulars** | **KUR** | **SBP** | **WAT** | **MCS** | Total |
| 1 | No. of stations electrified as per guidelines . | 136 | 67 | 114 | -- | 317 |
| 2 | No. of stations provided with water coolers as per guidelines | 22 | 16 | 13 | -- | 51 |
| 3 | No. of water coolers provided at stations | 56 | 27 | 35 | -- | 118 |
| 4 | No. of DG set Provided | 38 | 91 | 156 | 7 | 292 |
| 5 | No. of Sub stations | 71 | 35 | 80 | 11 | 197 |

**(b). Scale Of Lighting In Station & Platform:**

T-5, CFLs and Metal Halide type of fittings have been used to illuminate the station platforms, Station Approach and various passenger services related areas like Concourse, Waiting hall, Retiring Room & Booking office etc. The average illumination level provided in different category of stations is as follows:

|  |  |  |
| --- | --- | --- |
| Station Category | Platform (PF) | |
| Covered PF | Open PF |
| NSG1, NSG2, NSG3 | **150 Lux.** | **50 Lux** |
| NSG4, SG1, SG2, SG3 | **100 Lux** | **30 Lux** |
| NSG5, NSG6 | **100 Lux** | **30 Lux** |

(**c).  Fannage Provision In Station Platform:**

* One row of fans has been provided in Platforms where Platform width is between 6 to 9 Mtrs.
* Two rows of fans have been provided in Platforms where platform width is more than 9 Mtrs.

**(d).   Provision Of Water Coolers In Station:**

Water Coolers have been provided at all stations which deal with an average of 1000 Passengers (Inward & Outward) or more per day and where piped water supply and electricity is available.NSG1 to NSG5 2nos water cooler in each P.F.

**(e). Illumination Of Manned Level Crossing Gates**:

All manned and cabin operated level crossing gates are required to be provided with adequate light in both side of the track. 100**%** of manned and cabin operated L/C gates have been electrified and provided illumination during nighttime. The work, on electrification of remaining manned and cabin operated L/C gates are under different stages of execution.

**3. TRACTION DISTRIBUTION**

**(a).Assets of AC Traction Distribution**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Particulars** | **KUR** | **WAT** | SBP | **Total** |
| 1 | Electrified Route KM | 1164.829 | 1106.00 | 772.44 | 3043.269 |
| 2 | Electrified Track KM | 3279.165 | 2656.145 | 1926.976 | 7862.286 |
| 3 | No. of traction sub-stations(TSS) | 20 | 28 | 14 | 62 |

All the lines of East Coast Railway have been electrified with AC 25000 volts. Before introduction of 25 KV AC traction, the following notifications/warning to road users is being given by Railways.

1. **Public Notification**

“Notice is hereby given to all users of Railway lines and premises situated on the completed section of the under- noted section …… of the East Coast Railway that the 25000 Volt, 50 Hz., AC overhead traction wires will be energized on or after the date specified against the section. On and from the same date the overhead traction line shall be treated as live at all times and no unauthorized person shall approach or work in the proximity of the said overhead line”.

1. **Warning to Road users**

“It is notified for information of the Public that in connection with introduction of 25 kV ac electric traction over the section .............. of the East Coast Railway, height gauges have been erected at all the level crossings with clear height 4.78 m above road level with a view to prevent loads of excessive height from coming into contact or dangerous proximity to live traction wire (contact wire), which shall be at a height of minimum 5.5m above the rail level at level crossings. Public are hereby notified to observe the height specified above for the purpose of loading vehicles and to see that the loads carried in road vehicles do not infringe the height gauges under any circumstances”.

The dangers of a load of excessive height are as follows: -

i. Danger to the height gauge and consequent obstruction to the road as well as the railway line.

ii. Danger to the materials or equipment carried or the vehicle itself.

iii. Danger of fire and risk of life due to contact with or dangerous proximity to the conductors.

**III. Public Caution Board’s** regarding ”High voltage/25000 volts” have been provided in Station Premises, Waiting halls, Foot over bridges etc.

1. **Electrical Supply to ECoR.**

For running of trains in Electric traction in ECoR, Power Supply are taken from AP, Odisha and Chhatishgarh State. There are 12 TSSs under DISCOMs of AP, 42 TSS under DISCOMs of Odisha and 8 TSS under DISCOMs of Chhatishgarh.

**4.  LOCO SHEDS:**

There are 2 Electric Loco Sheds, one at VSKP and another at Angul.**ECoR has one diesel Loco sheds at VSKP.**

1. Electric Loco Holding☹as on 31.03.2024

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Shed | Type of Electric loco with population | | | | | | Total |
| WAP7 | WAG5 | WAG6 | WAG7 | WAG9 | WAG9H/HC |
| VSKP | 61 | 55 | 2 | - | - | 205 | 323 |
| ANGUL | - | - | - | 190 | 86 | - | 276 |
| DLS / VSKP | - | - | - | - | - | 225 | 225 |
| Total | 61 | 55 | 2 | 190 | 86 | 430 | 824 |

1. **Diesel Loco Holding as on 31.03.2024**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Shed | WDG3A | WDG4 | WDG4D | WDS6 | Total |
| DLS / VSKP | 43 | 39 | 82 | 8 | 172 |

**5. Electric Loco Operation:**

The Kottavalasa-Kirandul section, popularly known as K-K line, is having very arduous terrain with gradients up to 1 in 60, at a stretch as long as up to 70 KM and with number of reverse sharp curves up to 8 degrees. There are 1271 bridges and 58 tunnels in this section. The highest point in the broad gauge is situated at an altitude of 997.6 Mts at Similiguada station. Three WAG-5/WAG-7 locos in a consist or two WAG-9 loco in multiple are utilized to work the loaded trains.

ECoR maintains a territorial outage of about **1000** goods locomotives & about **140** coaching locomotives.