

## **MECHANICAL (COACHING) BRANCH**

### **1. Work Load:**

- 38 Primary Trains (Avg. Per day)
- 4 Secondary trains (Avg. Per day)
- 36 RBPC trains (Avg. Per day)
- 104 Primary rakes
- Coach holding of 2271

### **2. Infrastructure:**

- Five BG Coaching depots (CSMT, MZN, NCC WB , DR'T' LTT)
- 16 Pit lines ( CSR 600 meter), 10 pits < CSR 600 meter)
- One NG Coaching Depot at NRL having Coach holding of 28 Coaches
- Two Enroute Examination point IGP and PNVL
- Divisional Basic Training Centre at BTC WB
- IGP and PNVL are Nominated watering point of nominated pass through trains.

### **3. Depots wise train Maintenance:**

| Depot      | No. of pit lines | Capacity in coach length | Total Trains / Day | Primary Trains per Day | Secondary Trains per Day | RBPC Trains Per Day | Coach holding | No. of primary rakes |
|------------|------------------|--------------------------|--------------------|------------------------|--------------------------|---------------------|---------------|----------------------|
| CSMT       | 2                | 17 & 22                  | 21.14              |                        | 0.57                     | 20.57               |               |                      |
| MZN        | 6                | 17 to 19                 | 10.29              | 10.29                  |                          |                     | 423           | 23                   |
| WB         | 8                | 26                       | 16.14              | 10.57                  | 1.14                     | 4.43                | 559           | 26                   |
| DR'T'      | 2                | 17                       | 3.71               | 2.57                   |                          | 1.14                | 123           | 7                    |
| LTT        | 8                | 26                       | 25.42              | 14.14                  | 2.71                     | 8.57                | 1165          | 48                   |
| PNVL       |                  |                          | 1.71               |                        |                          | 1.71                |               |                      |
| Total (BG) |                  |                          | 78.41              | 37.57                  | 4.42                     | 36.42               | 2271          | 104                  |
| NERAL (NG) | 1                |                          | 6                  |                        |                          |                     | 38            |                      |

#### 4. Prestigious trains/coaches with State of the art passenger amenity fittings:

##### A. Vande Bharat Express

Hon'ble Prime Minister of India, Shri Narendra Modi Ji flagged off India's 9th and 10th Vande Bharat Express train on 10 Feb 23 running between Mumbai – Solapur and Mumbai - Sainagar Shirdi. Subsequently, Train no. 22229 / 22230 Mumbai CSMT - Madgaon Jn. - Mumbai CSMT Vande Bharat Express was flagged off by the Hon'ble Prime Minister Shri Narendra Modi Ji on 27/06/2023. Train no. 20705/20706 **Jalna - Mumbai CSMT Vande Bharat Express** (With Primary at NCC WB Depot/Mumbai) was Hon'ble Prime Minister Shri Narendra Modi ji through Video conferencing from Ayodhya Dham Junction Railway station on Saturday 30.12.2023.



##### **Salient Features:**

- ❖ The Vande Bharat Express train has an intelligent braking system which enables better acceleration and deceleration (as reaching a speed of 0 to 100 kilometres per hour in just 52 seconds). Deceleration –  $1\text{m/sec}^2$
- ❖ The maximum service speed of this train is 160 KMPH.
- ❖ Due to the bidirectional feature of the train, at the terminal station no reversion is required.
- ❖ The Vande Bharat 2.0 trains have the KAVACH (Train Collision Avoidance System) for enhanced safety in operations.
- ❖ Four platform side cameras including rear view cameras outside the coach.

- ❖ Better fire safety measures with Aerosol based fire detection and suppression system in all electrical cubicles and toilets.
- ❖ Superior flood proofing for under-slung electrical equipment to withstand floods up to 650 mm height.
- ❖ All coaches are equipped with automatic doors; GPS based audio-visual passenger information system, on-board hotspot Wi-Fi for entertainment purpose and comfortable seating.

**State of the Art passenger amenity fittings:**

- ❖ Dust shield Gangway
- ❖ Automatic Internal Sliding Doors
- ❖ CCTV Camera equipped coaches
- ❖ Movable Chair in Executive Class
- ❖ Fully automatic doors and AC coaches
- ❖ Passenger Information System
- ❖ Bio-Vacuum toilets
- ❖ Toilet for Divyang Passengers
- ❖ Passenger emergency communication unit (PECU)



## B. Rajdhani Express

- ❖ First Rajdhani Express of Central Railway was started on 19<sup>th</sup> January, 2019.
- ❖ First ever train working on Push pull mode
- ❖ HOG operation to save fuel
- ❖ Exterior of Pantry car transformed to a canvas-on-wheel with beautiful, hand painted historical sites along the route of the Rajdhani express adorning the coach sides. Other AC coach exterior panel has aesthetic look too.



### ❖ Better amenities to enhance travel experience .....

- Wi-Fi based infotainment
- Fragrance dispenser
- Carpet in First AC coach
- Duro wipecarpet in lavatory
- Toilet Safe Seat on Western WC
- Water saving Aerator for taps



### C. Tejas Express:

- ❖ First Tejas express of Indian Railway was inaugurated on 24.05.2017 between CSMT TO KARMALI, GOA.
- ❖ Coaches designed to run at 200kmph

#### **Better amenities to enhance travel experience .....**

- ❖ Automatic entrance plug type door
- ❖ Improved Inter-car Gangway
- ❖ Re-designed e-leather upholstery in seats
- ❖ Provision of CCTV Cameras
- ❖ Smart windows with automatic venetian blinds
- ❖ Integrated Braille displays
- ❖ Bio-Vacuum toilets
- ❖ Sensorised taps, flushing system, hand driers, tissue paper dispenser and soap dispenser for touch less experience



**D. Vistadome coach:** Vistadome coach is available in trains no. 12051/52, 11007/08 , 12123/24 and 22119/20.

**Salient features:**

- ❖ Wide Windowpanes
- ❖ Glass Roof that becomes either transparent or translucent with just the click of a switch ensuring that passengers can gaze endlessly at the scenic landscape
- ❖ An exclusive glass observation lounge to allow uninterrupted sight-seeing
- ❖ Rotatable seats and pushback chairs
- ❖ Toilets with ceramic tile flooring and concealed fittings.
- ❖ LED lights



Vistadome coach



Roof of switchable glass



Wide window panes and Rotatable seats and pushback chairs facilitate choice of sight-seeing sitting plan.



Exclusive glass observation lounge to allow uninterrupted sight-seeing.

## E. Narrow gauge coaches of Neral-MAE Section



Bigger window size steel  
body coaches  
manufactured from  
2012 onwards



AC coach introduced  
on November 2018



Vista dome coach  
introduced on  
March 2019