

# **ICF COACH MAINTENANCE**

**Presented by-**

**Rajendra Kushwaha**

**Instructor/C&W**

**MSTC/GKP**

## The different schedules that are carried on the primarily maintained coaching stock are:

a)	Trip Schedule	:	At the end of each trip
b)	'A' Schedule	:	1 month $\pm$ 3 days
c)	'B' Schedule	:	3 months $\pm$ 7 days
d)	'IOH' Schedule	:	9 months + 30 days 12 months + 30 days (After 24 months for newly built)
e)	POH	:	18 months ( 24 months for newly built) 42 Month (ATR/ARME)

## • **Trip Schedule-**

- This is a schedule, which is to be carried out every round trip.
- The rakes/coaches of all trains should be given a trip schedule as prescribed by the CME of the railway.
- This examination may be given at the primary maintenance depot or the secondary maintenance depot.

- **Attention Should Be Given In Trip Schedule-**

- The coaches should be washed / cleaned from outside and inside.

- The following items of work should be attended during the trip schedule examination.

1. Under frames, bogie frames, axle boxes, axle guards, springs etc
2. All moving parts to be lubricated.
3. Oil in dashpot should be checked for leakage. Add/replenish with specified grade if the oil level is below 60 mm.
4. Oil in side bearer to be checked for leakage. Add/replenish with specified grade if the oil level is low.
5. Wheel profile and thickness should be visually examined and gauged in case they appear to be near condemning limits.
6. Alarm chain apparatus to be tested.
7. Brake power to be checked and adjusted so that the piston stroke is within the specified limit
8. Check all the amenity fittings for its proper fitment and working.

# 'A' SCHEDULE

## Different activities to be carried out in 'A' Schedule-

'A' Schedule is required to be given every month at the nominated primary maintenance depots with the normal primary maintenance time.

- The following items of work should be attended:
  1. All items of trip schedule.
  2. Intensive cleaning of coaches.
  3. Intensive cleaning of lavatory pans and commode with Vim or equivalent.
  4. Painting of commode chutes from inside with black anti-corrosive paint after scraping and thorough cleaning.
  5. Painting of commode chute from outside after cleaning.
  6. Thorough flushing of tanks.
  7. Checking of water pipes, flush pipes, flushing cocks, push cocks etc, for ease of operation and free flow of water.
  8. Thorough disinfection of all compartments.
  9. Thorough cleaning of chimneys of dining cars, buffet cars, tourist cars and inspection carriages by wire brushes.
  10. Thorough inspection of train pipe, hose pipes including their Fittings, and air Brake system.

11. Testing of BC, DV and train pipe joints with Air Compressure.
12. Cleaning, greasing and testing of alarm chain apparatus under Pressure
13. Cleaning of Dirt collector.
14. Examination and replacement where necessary of brake gear pins, split pins, safety loops/brackets and their securing devices.
15. Examination for wear and replacement where necessary of brake hanger pins, brake blocks and brake heads.
16. Thorough inspection and repairs of draw gear.
17. Thorough inspection and repairs of buffers.
18. Checking and replenishing of oil in side bearers and dashpots.
19. Thorough check and repairs of SLR doors for easy and smooth operation and correct alignment of all wearing parts, loose screws etc.

## **'B' SCHEDULE**

- **Different activities to be carried out in 'B' schedule-**

The following works are to be carried out in 'B' schedule:

- **All items of 'A' Schedule.**
  1. Painting of lavatory from inside.
  2. **Thorough inspection and repair of brake gear components.**
  3. **Examination overhauling and testing of PEASD & PEAV.**
  4. Testing and repairs of roof, especially the one laid with over and underlays of rubberoid sheet before monsoon begins.
  5. Thorough checking of trough floor, turn under etc., from underneath for corrosion.
  6. **Touching up of painted/printed portion, if faded or soiled.**
  7. Measuring And Recording of heel profile.

## 'IOH' Schedule

All coaches which are working in rake link and earning more than 2 lakhs kms per annum shall be given IOH after 09 months of the date of last POH.

- ❖ Similarly, over due POH vehicles should be given intermediate lifting examination before they are allowed to run on line, to ensure fitness for service for a period not exceeding three months.
- ❖ During this lifting schedule, bogies/under frame members and body including trough floors of integral type coaches should be thoroughly examined and Bogie replaced After Repaire From Workshop.
- ❖ The bogie frames should be particularly checked to detect damage, cracks or deformation and necessary repairs carried out.
- ❖ Oil in the side bearers should be replenished after lifting.
- ❖ The date of intermediate lifting should then be stenciled in the appropriate place in schedule chart on the end panel.
- ❖ Buffer Height , Dim.A and B should be adjusted.
- ❖ Air Brake system should be checked and tested.



THANK YOU