

Indian Railway Conference Association – IRCA

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- Indian Railway Conference Association situated in New Delhi.
- Gives out the rules for the standard and condemning sizes of various components used on a rolling stock.
- They also give the guidelines for the maintenance of rolling stock in workshops and in open lines.
- The rulebooks issued for the Carriage & Wagon department are:-
 - Part III - For Wagon Stock
 - Part IV - For Coaching Stock

IRCA Part III and IV contains 4 chapters

Chapter	Details
Chapter I	Definitions
Chapter II	Workshop repair practice
Chapter III	Maintenance practice in open line
Chapter IV	Rejection rules

Codification of Railway Zones:-

Sl No	Name of the Railway	Code	Head Quarters
1	Central Railway	01	Mumbai (CSTM)
2.	Eastern Railway	02	Kolkata
3.	Northern Railway	03	New Delhi
4.	North Eastern Railway	04	Ghorakpur
5.	North Frontier Railway	05	Maligon
6.	Southern Railway	06	Chennai
7.	South Eastern Railway	07	Kolkata
8.	Western Railway	08	CharchGate
9.	South Central Railway	09	Secundrabad
10.	East Central Railway	10	Hajipur
11.	North Western Railway	11	Jaipur
12.	East Coast Railway	12	Bhubaneshwar
13.	North Central Railway	13	Allahabad
14.	South East Central Railway	14	Bilaspur
15.	South Western Railway	15	Hubli
16.	West Central Railway	16	Jabalpur

Different types of Workshops and their code

Type of Workshop	Code
Loco Workshops	1
Carriage & wagon Workshops	2
Loco, Carriage & Wagon Workshops	3

Every workshop is given with a 5 digit code - **XXYZZ**

- XX** - the first two digits indicates the Zonal Railway
- Y** - The third digit indicates the type of Workshop
- ZZ** - The last two digits indicates the individual number of the workshops

The different Workshops in the Indian Railways are-

Railway	S.N	Name of the workshop	Code
Central 01	1	Parel	01101
	2	Matunga	01201
	3	Kurduwadi	01301
Eastern 02	4	Jamalpur	02101
	5	Kancharapara(Loco)	02102
	6	Kancharapara(C&W)	02201
	7	Lilluah	02202
Northern 03	8	Charbagh	03101
	9	Amritsar	03102
	10	Alambagh	03201
	11	Jagadhri	03202
	12	Kalka	03203
North Eastern 04	13	Gorakhpur	04301
	14	Izat Nagar	04302
North East Frontier 05	15	New Bongaigaon	05201
	16	Dibrugargh	05301
	17	Tinddharia	05302
Southern 06	18	Perambur (Loco)	06101
	19	Perambur (C&W)	06202
	20	Golden Rock	06303
South Eastern 07	21	Kharagpur	07301

<i>Railway</i>	<i>S.N</i>	<i>Name of the workshop</i>	<i>Code</i>
Western 08	22	Dahod	08301
	23	Parel & Mahalaxmi	08201
	24	Junagarh	08202
	25	Pratapnagar	08302
	26	Bhavnagar	08203
South Central 09	27	Guntapalli	09201
	28	Tirupati	09202
	29	Lallaguda	09203
East Central 10	30	Samastipur	10201
North Western 11	31	Ajmer (Loco)	11301
	32	Ajmer (C & W)	11201
	33	Jodhpur	11202
	34	Bikaner	11203
East Coast 12	35	Mancheshwar	12201
North Central 13	36	Jhansi	13201
S.E. Central 14	37	Raipur	14201
	38	Nagpur	14301
S. Western 15	39	Mysore	15201
	40	Hubli	15202
West Central 16	41	Bhopal	16201
	42	Kota	16202

CHAPTER -1

Definitions used in IRCA:-

1.0 For the purposes of these rules, the following terms will have the meaning herein assigned to them.

1.1 Air brake system on a passenger coach consists of the following main components:-

a) Brake cylinder: -

- (i) Under frame mounted
- (ii) Bogie mounted

b) Brake pipe: -

c) Feed pipe: -

d) Distributor valve: -

e) Angle cock: -

f) Air hose couplings: -

g) Auxiliary reservoir: -

h) Guard's van valve and pressure gauge: -

i) Isolating cock: -

j) Choke: -

k) Passenger emergency alarm signal device (pilot valve):-

l) Passenger emergency alarm valve: -

m) Dirt collector: -

1.1 Air-conditioned coach: -

1.2 Anti-telescopic coach: -

1.3 Bogie: -

1.4 Anchor-link/Drag-link: -

1.5.1 ICF Schlieren Bogie: -

1.5.2 ICF all coil bogie: -

1.5.3 BEML (HAL/MAN) Bogie: -

1.5.4 IRS Bogie:-

1.6 Coaching stock :-

1.6.1 Passenger Coaching Vehicles (PCV): -

1.6.2 Other Coaching Vehicles (OCV): -

1.6.3 Passenger train

1.6.4 'Train'

1.7 Direct Admission Valve: -

1.8 Dashpots: -

1.9 DRS Cards: -

1.10 Diesel Rail Cars: -

1.11 Electrical Equipments.

1.11.1 Dynamo/Alternator: -

1.11.2 Emergency Coupler: -

1.11.3 Switch Gear:

1.11.4 DC generator/Alternator: -

1.11.5 Condenser motor:-

1.11.6 Delta panel:-

1.11.7 Thermostat:-

1.11.8 Expansion Valve:-

1.12 Electric Multiple Unit (EMU):-

1.12.1 Mainline Electric Multiple Unit (MEMU):-

1.12.2 Diesel Multiple Unit (DMU)/(DHMU):-

1.13 Gross load at rail:-

1.14 Goods stock:-

1.15 Owning Railway:-

1.15 Hot Box:-

1.16 Prescribed schedules/procedures (methods) /materials/ dimensions/tolerances/ special instructions :-

As laid down by Railway Board, RDSO and Camtech.

1.17 Rolling stock- includes both coaching and goods stock.

1.18 Shock Absorber:-

1.19 Silent Block: -

1.20 Slack Adjuster/Brake regulator:-

1.21 Unit:- This term applies to one four wheeled vehicle.

1.22 Using Railway:- It means a railway using a junction worked by another railway.

1.23 Working Railway:- It means a railway working a junction.

1.24 Owning Railway:- It is the railway to which the vehicle belongs.

Chapter 2-

- **Deals with the Workshop Repair practices.**
- **For further details refer to IRCA Part IV.**

Chapter 3-

- **Deals with Maintenance practices in open line.**
- **For further details refer to IRCA part IV.**

CHAPTER-IV

➤ REJECTIONS-

Rejections Broad Gauge and Meter Gauge Stock.

THANK YOU

