

# Islamabad Carriage Factory (ICF), Pakistan Railways

Manufacturing Unit of Passenger Coaches
ISO 9001 – 2015 Certified

#### **Mission Statement**

Timely delivery of the Railway Carriages for safe, economical and efficient train operation in the competitive transport market.

## Profile Islamabad Carriage Factory (ICF)

#### **Factory Commissioned**

 1970, in collaboration with Alstom (previously known as Link Hofman Bush)

#### **Manufacturing Capacity**

120 coaches per annum



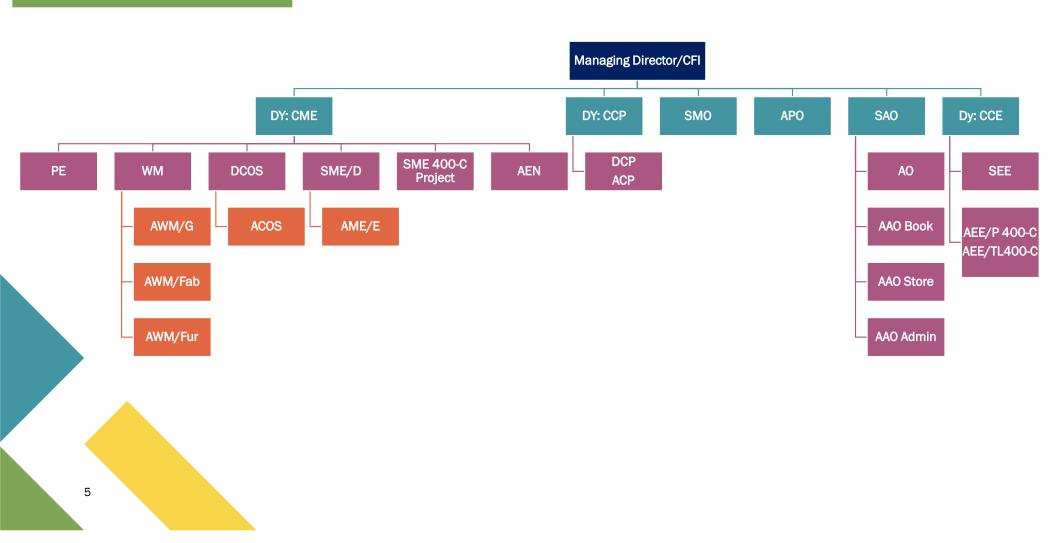


## Profile Islamabad Carriage Factory (ICF)

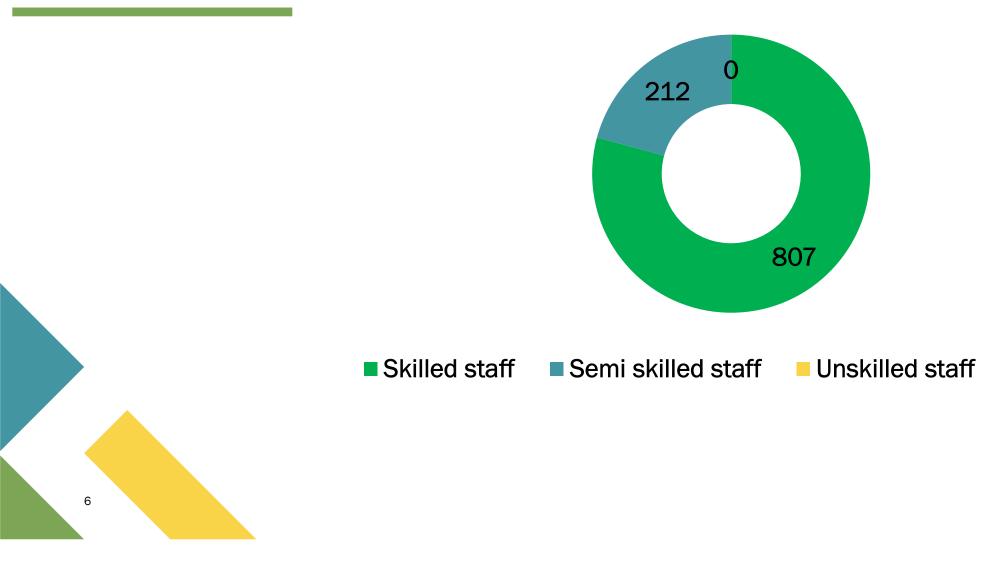
#### **Factory Area**

Covered Area	140.375 acres
Uncovered Area	133.625 acres
Colony Area	83.00 acres
Factory Area	57.375 acres

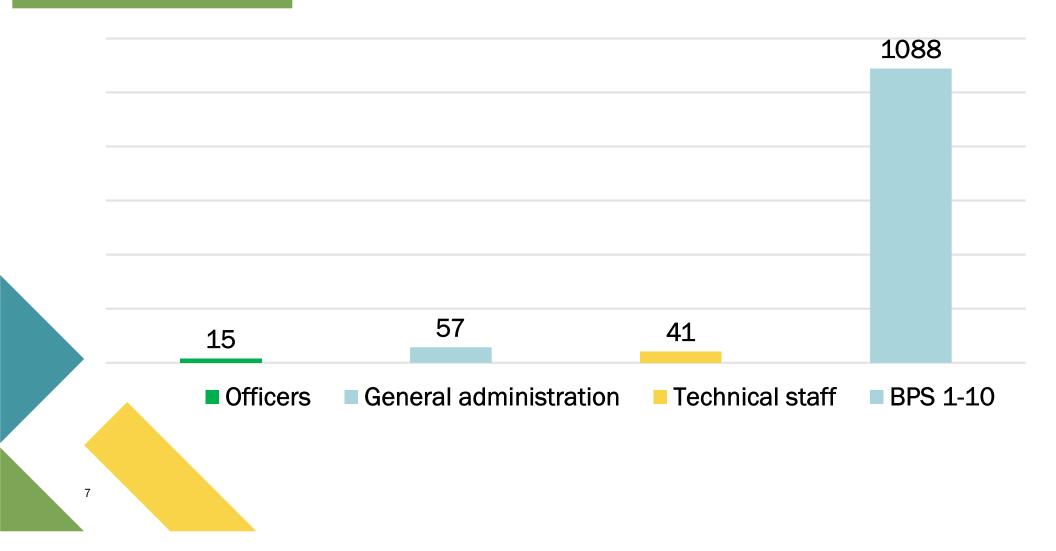
## Organogram



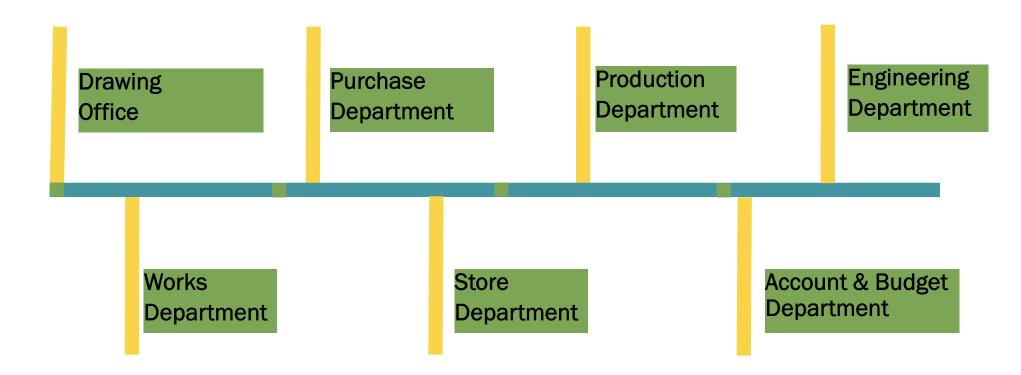
## **Staff Details**



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### **Major Departments**



## **Production History (1970-2020)**

Projects Completed	Coaches (no.)
Manufactured new passenger coaches (1971-2015)	2011
Rehabilitation, Special Repairs, Conversion, up-gradation and renovation of old coaches (1991-2020)	1938
Other manufactured stock (1996-2017)	162
P.O.H / N. R (1993-2020)	456
Total	4567

## **Completed Projects**

Projects	Duration
Rehabilitation of 240 coaches	Oct, 2000 - Oct, 2002
Rehabilitation of 450 coaches	Nov, 2002 to Feb, 2007
Procurement/Manufacture of 175 Chinese coaches	Feb, 2002 to May, 2007
Manufacture of 50 Bogie Brake Vans (Chinese design)	Sep, 2007 to Jun, 2008
Procurement/Manufacture of 2020 Chinese coaches	Aug, 2012 to Jan, 2015
Manufacture of 15 Chinese Bogie Brake Vans (ZNRVs)	Feb, 2017 to April, 2017
Manufacture of 10 Chinese Bogie Brake Vans (ZNRVs)	Nov, 2017 to Dec, 2017

#### Drawing

- 1. Material Schedule
- 2. Store
- 3. Purchase
- 4. Store
- 5. Main Store

#### Production

- 1. Set outturn schedule of fabrication and furnishing shop
- 2. Continuous project monitoring

#### Fabrication

- 1. Sub assembly
- 2. Manufacture under frame, side wall, end wall and roof
- 3. Assembly
- 4. Shell assembly and gauging
- 5. Flooring, seat pads, partitioning, dressing
- 6. Air brake piping, buffer, draw har book, and screw coupling

#### Furnishing

- 1. Electrical shop
- 2. Roof wiring
- 3. Under frame wiring
- 4. Electric appliances and connection
- 5. Testing

#### Paint

- 1. Interior and exterior
- 2. Interior decoration
- 3. Paneling, flooring, lav. Work, seat berths, bright plates

Inspection

**Rain Test** 

Division
Open Line

Inspection

### **Ongoing Projects**

- Rehabilitation of 60 German Coaches
- A4 maintenance of 40 Chinese Coaches
- Manufacturing of 40 KCR Coaches
- Rehabilitation of Bogie Frames for MGPR
- Assisting PLF in manufacturing of Jigs and Fixture
- Material supply for Special Repair of German Coaches

## **Transfer of Technology (TOT)**

- TOT to manufacture complete new German Coaches
- TOT to manufacture Chinese Coaches
- TOT to manufacture Coil Spring Bogie (CRC)
- TOT to manufacture Tangshan Bogie

### **Way Forward:**

#### **Procurement/Manufacturing of 230 Coaches**

- i. Out of 230 coaches, 184 coaches planned to be manufactured in CFI
- ii. Out of 184 coaches, 92 coaches manufactured from cut-to-size materials
- iii. 92 coaches manufactured from raw, un-processed material
- iv. The tender also envisages complete TOT of new manufacturing of Air Spring Bogie (speed 160 km/hr)



## **Gallery**







Tool Shop Machine Shop Wood Shop





Forge Shop







Aluminum Shop

Anodizing Shop



Pipe Section

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**Trimming Section** 



**Bogie Shop** 



Train Lighting Shop



**Auxiliary Facilities** 





















## Islamabad Carriage Factory (ICF), Pakistan Railways

## Thank you

Railway Carriage Factory

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