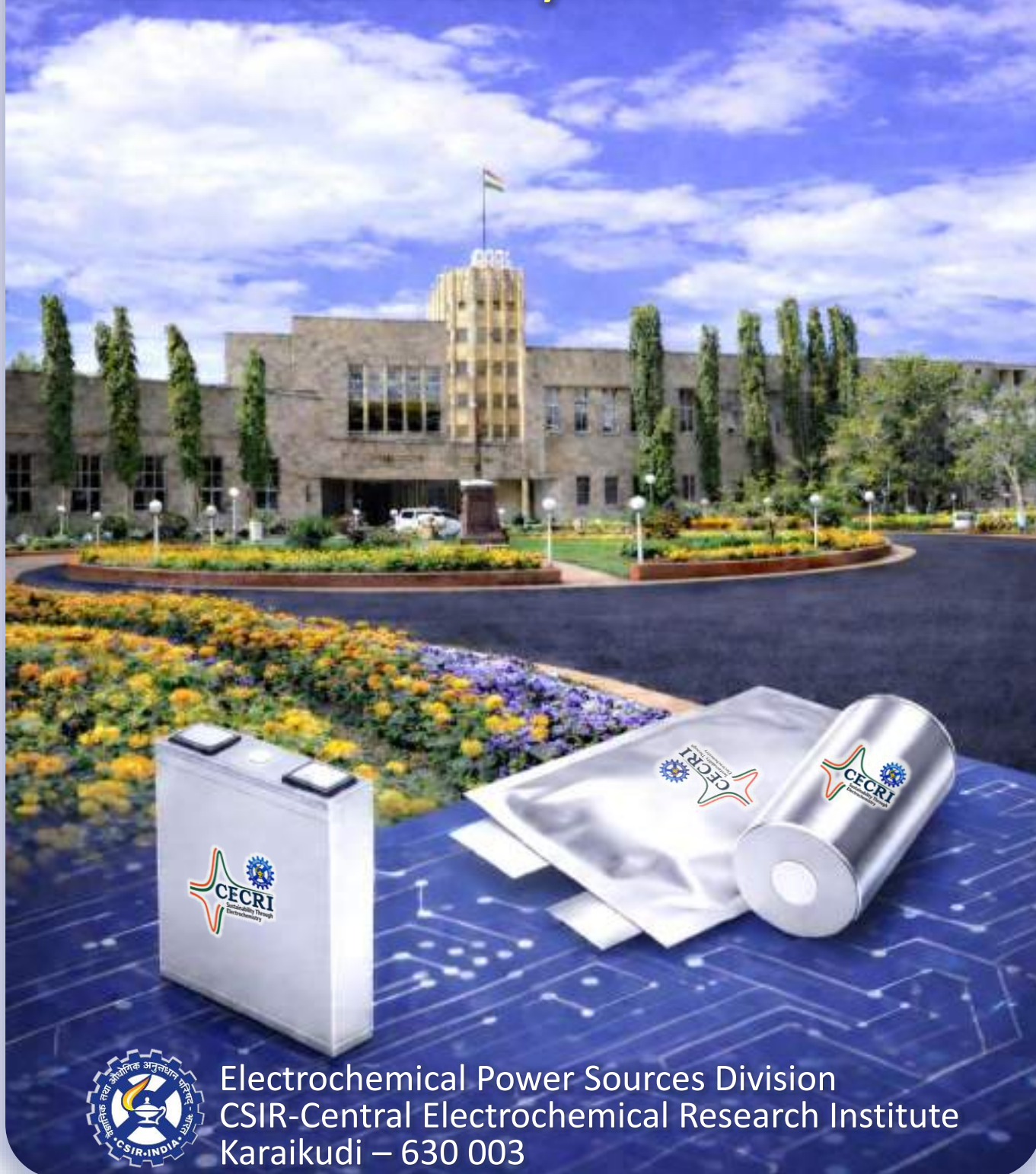


POWERING THE FUTURE



Lithium & Sodium-Ion Cell Fabrication Facility



Electrochemical Power Sources Division
CSIR-Central Electrochemical Research Institute
Karaikudi – 630 003

Dry Room - 1

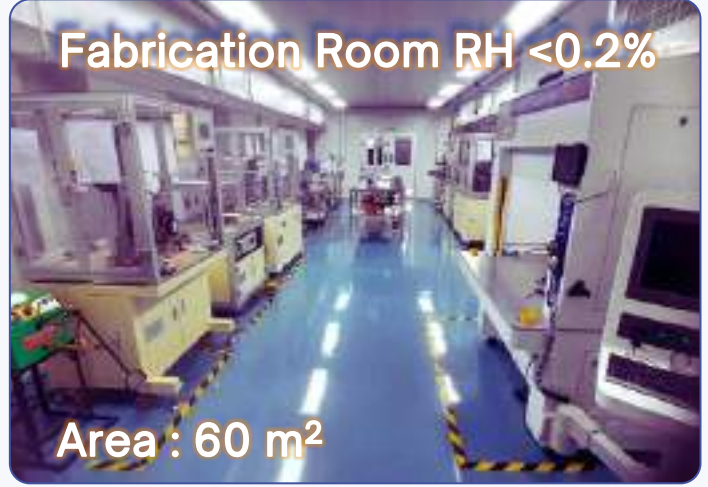
Coating Room RH <10%



Area : 40 m²

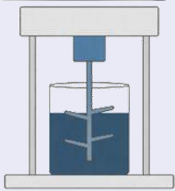
Dry Room - 2

Fabrication Room RH <0.2%

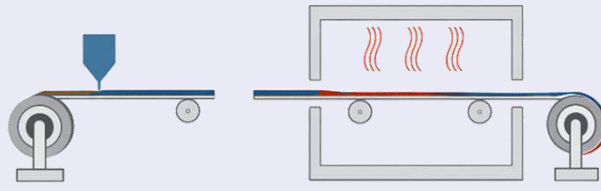


Area : 60 m²

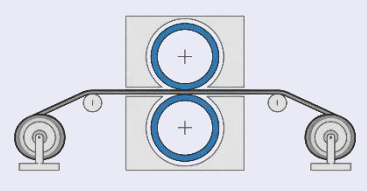
Electrode Fabrication Machine Line



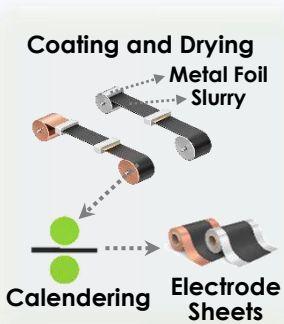
Vacuum Slurry Mixing



Roll-to-Roll Coating



Hot Roll Press



Prismatic & Pouch Assembly Line

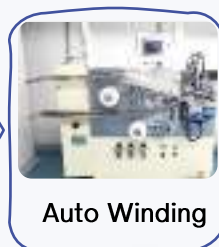
Cylindrical Assembly Line



Slitting



Ultrasonic Welding



Auto Winding



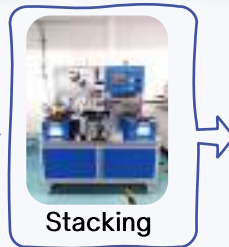
Point Welding



Grooving



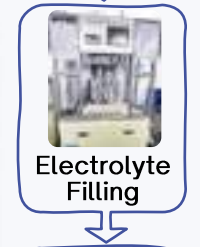
Electrode Cutting



Stacking



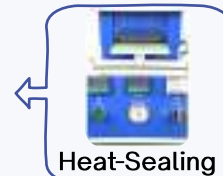
Pouch Case Forming



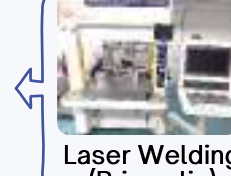
Electrolyte Filling



Vacuum-Sealing



Heat-Sealing



Laser Welding (Prismatic)



Crimping

Battery Testing Facility



Battery Pack Stacker



Arbin Battery Cycler



Voltage Range: ± 5 V
Max. Current Range: 5 A
Channel : 1 to 256

Chentech Battery Cycler



Voltage Range: ± 5 V
Max. Current Range: 50 A
Channel : 1 to 112

Neware Battery Cycler



Voltage Range: ± 30 V
Max. Current Range: 20 A
Channel : 1 to 32

Environmental Chamber
Neware Battery Cycler



Temp. Range: 0°C to 80°C
Humidity Range: 20% to 97%
Voltage Range: ± 100 V
Max. Current Range: 100 A



CSIR-CECRI, Karaikudi Offers:

- ❖ We Proudly Offer Services to Industry, Start-ups, MSMEs, and Academic Institutions
- ⚡ Materials, Electrolytes & Additives Validation
- 🧪 Electrode Coating & Processing
- 🔋 Cell Fabrication: Cylindrical (18650), Pouch (6–8 Ah) & Prismatic (50 Ah)
- 🔍 Battery Autopsy
- 📊 Electrochemical Testing Services
- 💡 Pay-Per-Use Facility





सीएसआईआर
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