

"Led by TECHNOLOGY
powered by PEOPLE"



**JAYACHANDRAN
INDUSTRIES (P) LTD**



LEAD & BATTERY INDUSTRY

Automotive batteries ● UPS batteries ● Solar batteries
SMF VRLA batteries ● E-Rickshaw batteries



ISO 9001 • ISO 14001 • ISO 45001



LEAD & BATTERY INDUSTRY

We are an ISO 9001 (Quality Management System), ISO 14001 (Environment Management System) & ISO 45001 (Occupational Health & Safety Management System) certified company and one of the fastest growing manufacturers and exporters of Automotive Batteries, UPS / Inverter Batteries, Tubular Batteries, SMF VRLA Batteries & E-Rickshaw Batteries.

Our well built facility is located in Coimbatore, Tamilnadu, INDIA with current annual production capacity of **1 million batteries per year**. The facility is built on a 4,35,600 SQ FT (40,470 SQ MT which is equivalent to 10 Acres) land to accommodate future expansion of up to **10 million** batteries per year.

We have more than **35 years** of experience in battery & lead (metal) business. With over **1000 employees**, JC group's current sales turnover in lead & battery business is about **900 crores/year** (Approximately: **110 million USD/year**).



Vision & Mission

To be among the top battery manufacturers in India by 2030 with significant presence in the global market.



To create a world class product with best value for money.

To create economic value addition for all our stake holders of the company including suppliers, customers, employees & society as a whole.

To play our role as responsible caretakers of environment, human development & global welfare.

Employees

Happy Employees are the key to success.

A healthy employee is vital for sustainable social and economic development on a industry. At JC, the workplaces are designed according to good principles of health, safety and ergonomics which leads to sustainibilty and productivity.

Team work being a backbone of any successful organization, our employees are recruited with the aptitude for and leaning towards team work.



Certifications

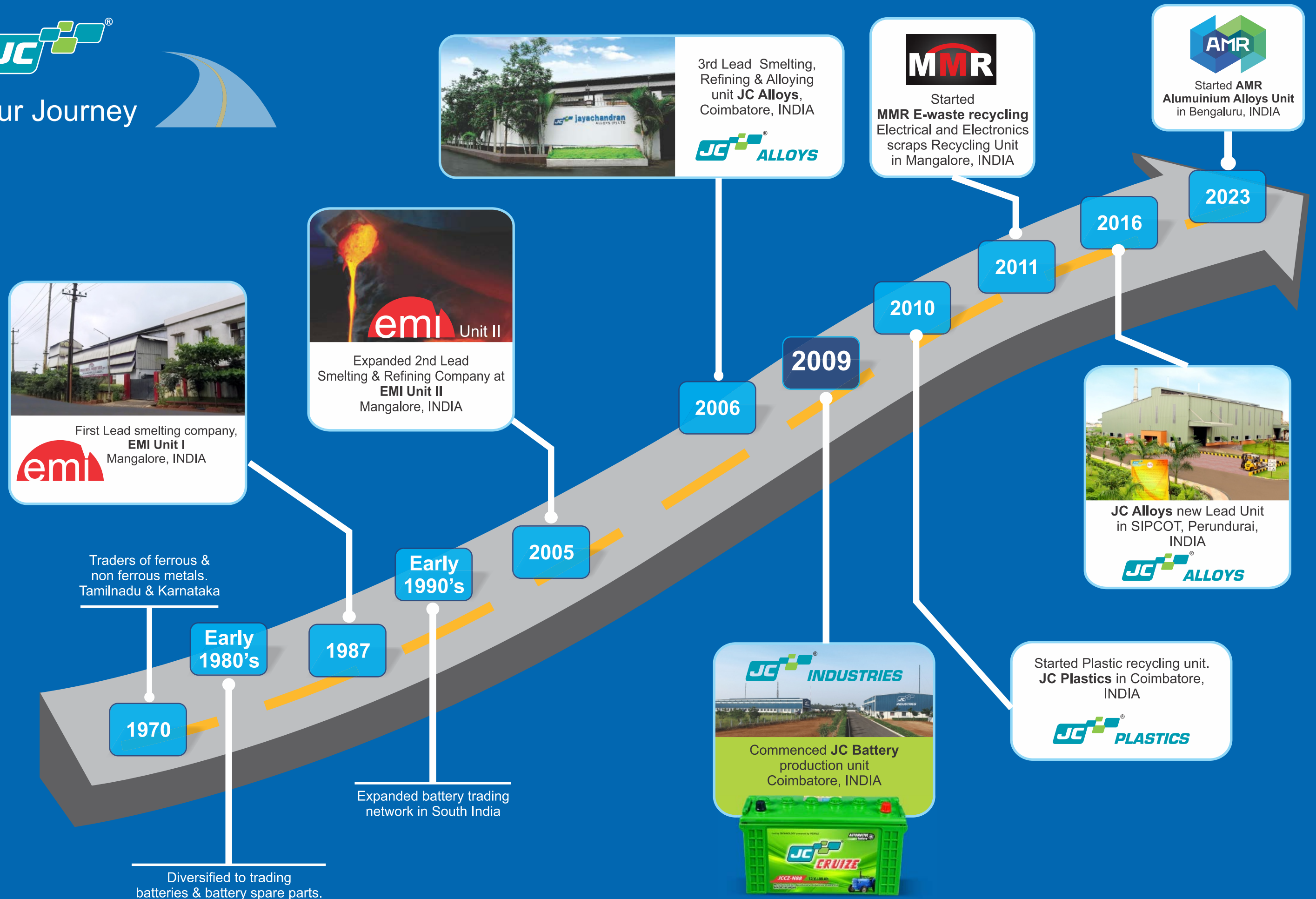
ISO 9001:2015
(Quality Management System)

ISO 14001:2015
(Environmental Management System)

ISO 45001:2018
(Occupational Health and Safety Management System)



Our Journey



Management Team

The top management team of JC Industries (P) Ltd is a perfect blend of experienced personnel & dynamic youths. The experienced personnel on one side help in maintaining the stability of the organization, while the dynamic and educated youth on the other side help in innovating new techniques and speeding up the growth of the company. The people in the management team come from diverse backgrounds with complementary skills.



C. Bharanikumar

Managing Director

Experience:

- 15 years in Metals, Battery & Plastic Industry.
- 5 years in Software Industry, USA.

Qualification: BE- ECE degree from KCT, India;
MS - Applied Mathematics from MSU, USA



A. Sabarinathan

Director

Experience:

- 17 years in Metals, Battery & Plastic Industry.
- 1 year in Operations, Nokia - Germany.

Qualification: BE- EEE degree from BITS, India;
MS - Electrical from ULM, Germany



C. Pradeep

Director

Experience: 20 Years in Metals, Battery & Plastic Industry.

Qualification: BSc degree from PSG, India;
MBA from GRD, India



C. Prasath

Director

Experience: 15 Years in Metals, Battery & Plastic Industry.

Qualification: BE- ECE degree from PSG, India;
MBA from Bradford School of Management, UK



A. Hari

Director

Experience: 8 years in Metals, Battery & Plastic Industry.

Qualification: BE-IT degree from KCT, India;
MBA, UK



A. Nithin

Director

Experience: 6 years in Metals, Battery & Plastic Industry.

Qualification: B.E Civil Engineering from CIT, India;
Master of Management from University of Sydney, Australia



Sales Turnover in our LEAD & BATTERY DIVISION



Quality & Testing Standards



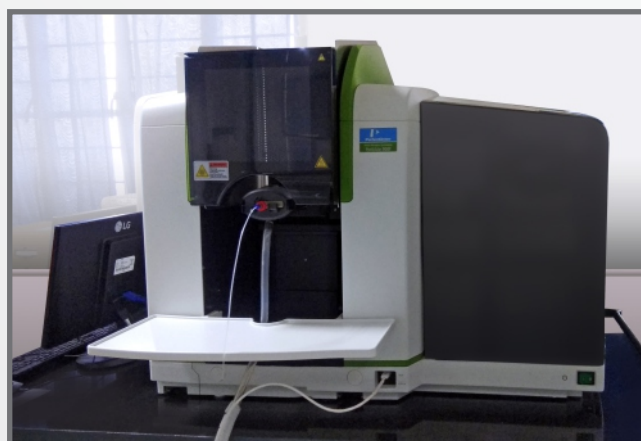
At JC Industries, Quality is accomplished by better management of design, engineering & testing.

Quality assurance is carried out by systematic monitoring and evaluation of various aspects at every stage of process involved in the production operations. Strict quality control procedures are followed in our manufacturing process. Indian and International testing standards (Japanese & German) are strictly followed at JC.

“Customer Satisfaction
is a measure of
quality product & service.”

- Approved by TNPCB (Tamil Nadu Pollution Control Board)
- Elemental composition in Pure Lead & Lead Alloys are detected using **Optical Emission Spectrometer (O.E.S.)**
- Elemental composition in Grey Oxide & Red Lead are detected using **Atomic Absorption Spectrometer (A.A.S.)**
- Tubular batteries are certified by following bodies:
 - ♦ **CECRI** (Central Electrochemical Research Institute, Karaikudi)
 - ♦ **MNRE** (Ministry of New & Renewable Energy, New Delhi)
- Flat Plate Inverter batteries are tested as per IS6304 standard
- Tubular batteries are tested as per IS13369, IEC60896 & IEC61427 standards
- Solar batteries are tested as per IS13369, IEC60896 & IEC61427 standards
- Automotive batteries are tested as per IS14257, Japanese JISD5301, SAEJ537 & DIN standards
- E-vehicle batteries are tested as per AIS048 standard and certified by **ARAI** (Automotive Research Association of India, Pune)
- SMF VRLA batteries are tested as per IS15549, JISC8702 & IEC60896 standards and certified by **CPRI** as per IEC60896 Standard (Central Power Research Institute, Bangalore)

Atomic Absorption Spectrometer (A.A.S.)



Optical Emission Spectrometer (O.E.S.)



Battery Production Unit



The major value creator of an organization is its infrastructure.

The infrastructure is designed and developed after thorough analysis and consulting with highly qualified technicians and engineers, making it one of the best production units. Thus, it enables us to deliver high quality Automotive and Stationary batteries.

The infrastructure is equipped with sophisticated machinery and latest Technology supporting consistency in production without bottle necks in achieving our goal.

A team of well trained and experienced professionals make our operation successful.

Infrastructure

Lead Alloy & Lead Oxide Unit



Battery Production Section



Grid Casting Section



Battery Charging Section



Curing Section



Oxide Mill



Grey Oxide



Red Lead

Pasting Section



Battery Assembly Section



Automotive Batteries



JC Batteries offers the widest range of high performance Automotive Batteries which have been widely used in cars, trucks, passenger & commercial vehicles. Our advanced Calcium Silver Alloy Technology ensures higher service life. The thicker gravity-casted grids with full-frame technology endures longer. Our high-purity lead alloy, oxide, electrolyte & other raw materials ensure very lower self discharge characteristics.

The advanced formulation recipe with TIMREX Graphite mix results in dynamic charge acceptance characteristics. Our highly porous PE separators with additional thicker Glass-mat separation offers 'Shock absorption effect' on the positive active material under high vibrating conditions. The Sealed Maintenance-free & Spill-proof automotive batteries excel in Cold Cranking acceptance. JC Automotive Batteries deliver best reserve capacity results with better cranking performance.

Force Series

Battery Type (12 V)	Capacity	Dimensions (in mm)
JCFC-NS40R	32Ah	195 x 130 x 225
JCFC-NS40L	32Ah	195 x 130 x 225
JCFC-NS40ZR	35Ah	195 x 130 x 225
JCFC-NS40ZL	35Ah	195 x 130 x 225
JCFC-N550R	50Ah	260 x 170 x 227
JCFC-N550L	50Ah	260 x 170 x 227
JCFC-N600R	60Ah	260 x 170 x 227
JCFC-N600L	60Ah	260 x 170 x 227
JCFC-N700R	65Ah	260 x 170 x 227
JCFC-N700L	65Ah	260 x 170 x 227
JCFC-N750R	75Ah	305 x 170 x 227
JCFC-N88	88Ah	410 x 174 x 239

Race Series

Battery Type (12 V)	Capacity	Dimensions (in mm)
JCRC-NS40ZR	35Ah	195 x 130 x 225
JCRC-NS40ZL	35Ah	195 x 130 x 225

Cruise Series

Battery Type (12 V)	Capacity	Dimensions (in mm)
JCCZ-NS40ZR	35Ah	195 x 130 x 225
JCCZ-NS40ZL	35Ah	195 x 130 x 225
JCCZ-NS60L	45Ah	238 x 126 x 228
JCCZ-N700R	65Ah	260 x 170 x 227
JCCZ-N700L	65Ah	260 x 170 x 227
JCCZ-N800R	80Ah	305 x 170 x 227
JCCZ-N88	88Ah	410 x 174 x 239
JCCZ-N100	100Ah	410 x 174 x 239
JCCZ-N130	130Ah	510 x 182 x 235
JCCZ-N150	150Ah	505 x 220 x 235
JCCZ-N180	180Ah	518 x 275 x 240

DIN Series

Battery Type (12 V)	Capacity	Dimensions (in mm)
JCDR-DIN44	44Ah	210 x 175 x 175
JCDR-DIN50	50Ah	210 x 175 x 175
JCDR-DIN65	65Ah	275 x 175 x 190

Note: Tolerance for dimension is +/- 5mm. Specifications are subject to change without prior notice.

Ultra low Maintenance & Sealed Maintenance Free Batteries



UPS Batteries

JC Tubular batteries are specially designed with Robust Tubular Technology. Our Pressure die-casted spines & thicker negative grids ensure longer life. The upgraded negative paste recipe with the proven grade of Carbon black and graphite mix, results in superior charge acceptance. Our high-purity processing results in very lower self discharge and also well-facilitated curing process provides stronger adhesion of active material with the grid.

Higher AH efficiency & WH efficiency observed in our tubular series. Micro-porous ceramic float indicator provision in all 6 cells of the battery, helps in both water loss reduction as well as for the clear indication of electrolyte level. All our Tubular batteries deliver excellent Life cycle results.

Product Ranges

Battery Type (12V)	Capacity	Overall Dimension(mm)		
		L	W	H
JC Tubular				
JCT-40	40Ah	305	170	240
JCT-60	60Ah	410	174	255
JCT-80	80Ah	518	275	255
JCT-100	100Ah	518	275	255
JC Tall Tubular				
JCTT-150	150Ah	503	190	418
JCTT-160	160Ah	503	190	418
JCTT-200	200Ah	503	190	418
JC Mass				
JCM-50	50Ah	303	171	240
JCM-70	70Ah	410	173	233
JCM-100	100Ah	510	183	255
JCM-150	150Ah	505	220	255
JCM-200	200Ah	518	275	255

Note: Tolerance for dimension is +/- 5mm. Specifications are subject to change without prior notice.



Applications

- UPS / Inverter
- Online UPS Systems
- Solar Power Plants
- Solar Home Lighting
- Solar Street Lighting
- Solar Inverter
- Power backup Industries



SMF VRLA Batteries



Technical parameters of JC SMF VRLA Batteries

Battery	Capacity	Volts	Product Overall Dimension(mm)		
			L	W	H
JCSMFVRLA6-4.5	4.5 Ah	6	71	48	105
JCSMFVRLA6-5	5 Ah	6	71	48	105
JCSMFVRLA12-4.5	4.5 Ah	12	90	70	105
JCSMFVRLA12-7	7 Ah	12	151	65	100
JCSMFVRLA12-7.5	7.5 Ah	12	151	65	100
JCSMFVRLA12-9	9 Ah	12	151	65	100
JCSMFVRLA12-12	12 Ah	12	153	99	105
JCSMFVRLA12-18	18 Ah	12	180	75	165
JCSMFVRLA12-26	26 Ah	12	165	175	126
JCSMFVRLA12-42	42 Ah	12	195	165	175
JCSMFVRLA12-65	65 Ah	12	347	167	175
JCSMFVRLA12-75	75 Ah	12	347	167	175
JCSMFVRLA12-85	85 Ah	12	330	174	230
JCSMFVRLA12-100	100 Ah	12	330	174	230
JCSMFVRLA12-120	120 Ah	12	408	172	240
JCSMFVRLA12-150	150 Ah	12	485	170	240
JCSMFVRLA12-200	200 Ah	12	510	235	230

Note: Tolerance for dimension is +/- 5mm. Specifications are subject to change without prior notice.


AGM VRLA
TECHNOLOGY



ZERO
MAINTENANCE



ZERO
SPILLAGE



LONGER
BACKUP



E-Rickshaw Batteries



Technical parameters of JC E-rickshaw Tubular batteries

Battery Type (12V)	Capacity	Product Overall Dimension(mm)			Applications
		L	W	H	
JCER-100	100Ah	410	174	255	E-rickshaw Vehicles
JCER-120	120Ah	410	174	290	
JCERT-100	100Ah	410	174	290	
JCERT-120	120Ah	410	174	290	

Note: Tolerance for dimension is +/- 5mm. Specifications are subject to change without prior notice.

Product Features

- Robust grid design along with stronger alloy
- Advanced paste formulation
- With superior charge acceptance characteristics
- Faster recharge with E-Rickshaw chargers
- Low maintenance batteries
- Heat sealed PP containers
- Vibration resistant
- Instant start & trouble-free performance
- Specially designed vent plugs for reduced water top-up frequency & also to be environment friendly by eliminating acid fumes
- Factory-charged batteries



ARAI

Certified

Progress through Research

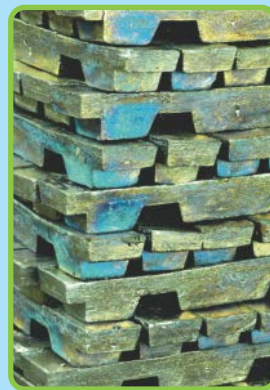
Tested as per AIS-048 standards



JAYACHANDRAN ALLOYS (P) LTD

(Manufacturers of Lead Alloys & Lead Oxide)

www.jcalloys.com



ESWARI GLOBAL METAL INDUSTRIES (P) LTD

(Manufacturers of Pure Lead & Lead Alloys)

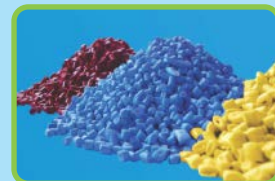
www.emimetals.com



JAYACHANDRAN PLASTICS LLP

(Manufacturers of Plastic Granules & Products)

www.jcplastics.net



MOOGAMBIGAI METAL REFINERIES

(Recycling Electrical and Electronic scraps)

www.mmrrecycling.in



ANNAI METAL REFINERIES PVT. LTD.

(Manufacturers of Aluminium Alloys)

www.annaimetalrefineries.com



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