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FORTNIGHTLY ISSUE

16-31 October 2026

(Vol.41, No.20 Published on 13.10.2026)

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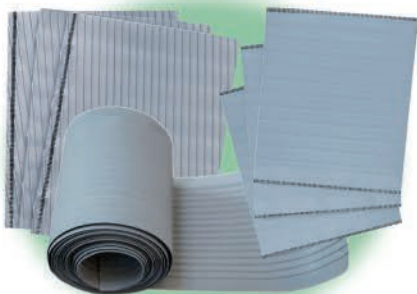


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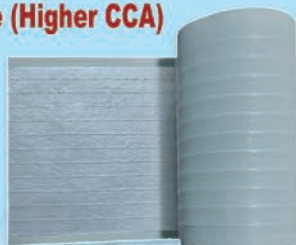
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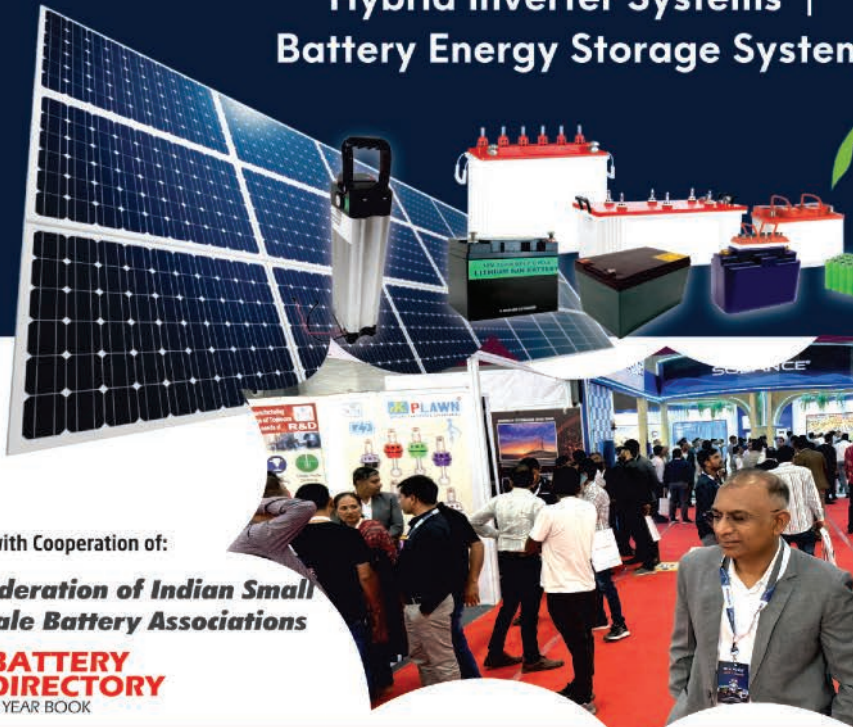
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—Bhagwan Sh. Sathya Sai Baba



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Power On, Goa 2027:

The Mega Gateway for SME Batterymen in the Hybrid Inverter, Home ESS & BESS Sector

21st Power On Mela will be held in Goa from February 5 to 7.

With recent changes in the market, a major question is emerging: Why is it necessary for batterymen to integrate the BESS and EV sectors into their business?

Due to the rapid transformations happening in the market, adopting the BESS (Battery Energy Storage System) and EV (Electric Vehicle) sectors has now become the biggest necessity for the survival and growth of battery businessmen.

The use of lithium is continuously increasing in traditional battery applications. The entire world is rapidly shifting towards renewable energy (solar/wind) and electric mobility. To maintain a round-the-clock solar power supply and stabilize the grid, a massive demand for large-capacity 'BESS' has emerged. Meanwhile, rapidly selling electric vehicles (EVs) have opened

up a huge new market for advanced lithium-ion batteries.

If businessmen do not upgrade themselves with this modern technology, they will be left behind in a competitive market. To remain relevant in the future, achieve rapid growth, and reach a large segment of new customers, integrating the BESS and EV sectors into your business is now an imperative step.

With the intention of strengthening the industry for this massive transformation, the 21st PowerON is going to create immense business opportunities for the battery industry in Goa. This event will take place from February 5 to 7, 2027, at the beautiful Campal Multipurpose Ground in Panaji, Goa.

The Spark and The Name

As we enter its 21st year, it is crucial to understand its history and foundation.

The core idea behind Power ON was deeply significant: to build a national organization for the SME battery industry, where national-level problems could be discussed and raised directly to the central government. Power On was initiated to bring this vision to reality. The famous name 'Power ON' was coined by Shri Vijayrajan ji. The official journey of this event began on January 2, 2004, in Hyderabad.

The idea of forming a federation was conceived by the former President of the West Bengal Battery Association, **Shri Yashpal Kanotra ji**, which received full support from the Mumbai and Hyderabad Battery Associations. Special gratitude belongs to the visionaries who built this organization, including the then President of the Hyderabad Association, the late **Dr. V.K. Aggarwal, Shri Madan ji, Rajesh Bansal, Sanjay, and Shri Sharad Sanghvi** from the Mumbai Battery Association. Their dedication gave the Indian battery industry a unified voice.

The Vision of Power On

The goal of PowerOn was to empower small and medium-scale battery enterprises. It aimed to provide them with a marketing platform where they could directly connect with other batterymen to expand their market, and access machinery and technical assistance to improve their products. The reason for hosting it in different cities was precisely so that the maximum number of small battery entrepreneurs could benefit from it. Starting from Hyderabad in 2004, it has been organized in cities like Kanpur, Jaipur, Chandigarh, Noida, Agra, Kolkata, Pune, Gandhinagar, Bengaluru, Indore, and Ahmedabad, greatly benefiting the automotive battery industry.

Surging Demand for BESS and Hybrid Inverters

Today, traditional batteries alone are not enough. With the integration of renewable energy like solar and wind power, the market for BESS (Battery Energy Storage Systems)—which can be described as large-scale energy storage systems or power banks—and hybrid solar solutions is growing very rapidly. These numbers highlight a massive, new opportunity for SMEs that are ready for change.

According to estimates by the Central Electricity Authority (CEA), India's BESS requirement is projected to increase by almost 7 times from its current 2026-27 levels within just the next five years.

Alongside BESS, the supporting infrastructure is also experiencing tremendous growth, opening up several new revenue streams for battery manufacturers:

Business Opportunities in this Massive Market at Power On Goa 2027

To bridge the gap between the rising demand and supply of electricity, the 21st PowerOn has officially added the BESS, lithium battery, and EV segments. This strategic shift brings immense business opportunities for PowerOn participants:

1. Direct Access to the Solar Boom: Alongside PowerOn Goa 2027, a concurrent solar exhibition will be organized by Maha Expo. Since solar power and hybrid inverters rely entirely on batteries, SME batterymen will gain direct access to thousands of ready customers looking for BESS and solar-plus-storage solutions.

Market Segment	Projected Growth (CAGR)	Target Milestone
Solar & Hybrid Inverters	10.11%	~\$1,100 Million by 2031
Renewable Storage Batteries	11.7%	Consistent double-digit (>10%) growth through 2031
EV Battery Market	High	Rapid expansion driven by increasing EV adoption

Table-1

2. International Exposure and Automation: PowerOn Goa 2027 has now become a global platform. It offers foreign batterymen an opportunity to showcase their advanced and new technologies. This will help local SMEs adopt international standards, improve their manufacturing, and bring automation to their units to meet the colossal national demand of 236 GWh.

3. Bridging the Supply Gap: Since the market is now pivoting towards large-capacity storage and EVs, PowerOn Goa 2027 will act as

an excellent bridge. It will provide the industry with precise solutions, enabling small battery manufacturers to transition from traditional manufacturing and step into rapidly growing sectors like Lithium-ion and BESS.

PowerOn Goa 2027 will not just be an exhibition. It will be the ultimate destination to empower small battery manufacturers, and amidst India's energy storage boom, it will be the exact place where the future of opportunities in the energy market takes a new shape. 

Inspirational Thoughts

- ★ In life, nothing is truly one's own or foreign—except for time.
- ★ When time is on your side, everyone is your own; when time turns against you, even your own become strangers.
- ★ Of what use are heights of success, my friend, if one climbs up only to let their humanity slip away?
- ★ Sweets are distributed only on special occasions, but "sweet behavior" can be shared every day—for it keeps both the giver and the receiver healthy.

– Ajay Gupta,
AK Auto Agency, Mumbai
Forwarded by the President,
Indian Battery and Accessories
Industries Welfare Association, Mumbai





Demand by the Federation of Indian Small Scale Battery Associations (FISSBA) to ensure the participation of Indian MSME battery manufacturers in the Central Electricity Authority's (CEA) proposed BESS regulations.

Domestic MSME companies should also get significant opportunities in large utility-scale BESS Projects

The Federation of Indian Small Scale Battery Associations (FISSBA) has submitted an official representation to the Central Electricity Authority (CEA), demanding that the participation of MSME battery manufacturers and allied industries be ensured in the proposed regulations.

The Federation has submitted this memorandum regarding the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) 2nd Amendment Regulations, 2026, which was published in the Gazette of India on September 3, 2026. (See Gazette, page 17)

The Federation has welcomed the CEA's move to make Battery Energy Storage Systems (BESS) mandatory for new solar and wind energy projects. According to the Federation, this step could prove significant for India's energy security and the goal of an 'Atmanirbhar Bharat' (Self-Reliant India). However, the Federation has strongly emphasized that domestic MSMEs should also be

given adequate opportunities in large utility-scale BESS projects.

Equal Opportunity for All Battery Technologies

The Federation has called for the adoption of "technology neutrality" in the proposed technical standards, rather than mandating any single battery chemistry. The memorandum specifically suggests including lead-acid and advanced lead-carbon batteries as viable options. The Federation asserts that advanced lead-carbon batteries can deliver cost-effective performance for applications such as 2-hour and 4-hour stationary grid balancing. These batteries are capable of withstanding India's high-temperature environment, and a robust domestic recycling ecosystem for them already exists in the country.

CEA technical specifications should be based on functional parameters—such as cycling, degradation, and response time—rather than mandating a specific chemistry like lithium.

Proposal for 20-25% Procurement from MSMEs

The Federation has suggested introducing a provision for sourcing from domestic MSMEs for large renewable EPC contractors and project developers. Additionally, it has been proposed that for large projects, at least 20–25% of BESS container enclosures, power electronics, Balance of Plant (BOP) components, and battery modules be procured from registered Indian MSMEs.

The Federation believes that such a system will help curb the complete dominance of imported turnkey systems and provide MSMEs with the opportunity to secure a foothold in the rapidly growing BESS market.

Demand to Simplify Testing and Certification

The federation has also called for making testing and certification facilities more accessible to small Indian inverter and equipment manufacturers. The government should establish clear regulations and timelines for testing and certification. Regional testing facilities should be made available to small manufacturers ahead of the deadline so that the high cost of certification does not become a major barrier to market entry for them. The memorandum also mentions the deadline of July 1, 2027, and urges that adequate testing infrastructure be made available for MSME industries prior to that date.

Proposal to Link Small Manufacturers with Large BESS Projects

The federation has proposed the development of standardized modular

blocks to boost MSME participation. It has recommended creating standardized modular blocks of 0.5 MW/1 MWh or 1 MW capacity. This would enable small battery pack assemblers and system integrators to qualify for participation in large EPC tenders. This move would ensure that large BESS tenders are not restricted to just a few major companies, thereby providing opportunities for small and medium-sized Indian enterprises as well.

Emphasis on Battery Recycling and the Circular Economy

The memorandum also highlights the systems established by domestic battery manufacturers for the take-back and recycling of used batteries. The Federation stated that domestic manufacturers operate mechanisms to collect and recycle used batteries in compliance with battery waste management regulations. However, the Federation expressed concern regarding the end-of-life disposal infrastructure for imported batteries; the lack of proper disposal systems for batteries after use could pose an environmental challenge.

Urging the inclusion of MSME interests in the final rules

The Federation has urged the CEA to give serious consideration to these suggestions and to incorporate the interests of the Indian MSME sector into the final rules. The Federation has also requested a meeting with the CEA's office to discuss these issues in detail. This initiative by the Federation is significant at a time when the need for large-scale energy storage alongside

renewable energy projects is growing in India. The Federation's primary objective is to ensure that Indian MSMEs gain fair opportunities—at the technical, procurement, and manufacturing levels—within this emerging BESS market.

Under the leadership of Federation President Sh. Harashpal Singh Sawhney, Sh. Naresh Tomar and Sh. Aditya Mahawar have made significant contributions to the preparation of this official representation.

THE GAZETTE OF INDIA

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 3 September, 2026

F. No. CEA-TH-17/1/2021-TETD Division.—The following draft regulations, which the Central Electricity Authority proposes to make in exercise of the powers conferred by clause (c) of sub-section (2) of section 177 of the Electricity Act, 2003 (36 of 2003), the Central Electricity Authority hereby makes the amendment in the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) 2nd Amendment, Regulations, 2026, are hereby published, as required under sub-section (3) of section 177 of the said Act, for the information of all persons likely to be affected thereby; and notice is hereby given that the draft regulations shall be taken into consideration after the expiry of a period of thirty days from the date on which copies of this notification, as published in the Gazette of India, are made available to the public.

The objections or suggestions which may be received from any person with respect to the said draft regulations before the expiry of the period specified above shall be considered by the Central Electricity Authority.

The objections or suggestions, if any, on the said draft regulations may be sent to the Chief Engineer, Legal Division, Central Electricity Authority, 6th Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066, or through e-mail: celegal-cea@gov.in.

Draft Regulations

1. **Short title and commencement:** – (1) These Regulations may be called the Central Electricity Authority (Technical Standards for Construction of Electric Plants and Electric Lines) 2nd Amendment, Regulations, 2026.

(2) These Regulations shall come into force on the date of their publication in the Official Gazette.

2. In the said regulation, after regulation 106B (19), the following regulation substituted, namely: -
“106B (20) The renewable energy power plant which are commissioned after 1st July 2027 shall have at least fifteen percent of inverter with grid forming control and all PCS of battery energy storage system shall have grid forming control to comply with the technical requirements as specified in Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations:

Provided that the ground-mounted Solar Power Plant and on-shore Wind Power Plant which are commissioned after 1st July 2027 shall be equipped with co-located Energy Storage System (ESS) having a minimum storage duration of two (2) hours and a capacity equivalent to at least ten percent (10%) of the installed capacity of the Plant.

(Explanation- If the Solar Plant is 100 MW, the minimum storage requirement will be 10 MW for 2 Hours.)

Provided further that the ground-mounted Solar Power Plant and on-shore Wind Power Plant which are commissioned after 1st July 2029 and up to 30th June 2031 shall be equipped with co-located Energy Storage System (ESS) having a minimum storage duration of four (4) hours and a capacity equivalent to at least ten percent (10%) of the installed capacity of the Plant.

(Explanation- If the Solar Plant is 100 MW, the minimum storage requirement will be 10 MW for 4 Hours.)

Provided further that any change in the percentage of requirement of grid forming capabilities or ESS capacity shall be notified by Authority from time to time.”

RAKESH KUMAR, Secy.

[ADVT.-III/4/Exty./310/2026-27]

Note: The principal regulations were published in the Gazette of India, Extraordinary, Part III, Section 4, vide notification No. CEA-TH-17/1/2021-TETD Division, dated the 23rd December, 2022.

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To Prevent Instability in the Power Grid caused by the rapid expansion of Renewable Energy Installations

Battery Energy Storage Systems are Essential

Solar and wind energy sources fluctuate based on weather conditions (for instance, a sudden drop in solar power output when clouds appear). A battery functions like a power bank; when sunlight is intense and the load is low, excess electricity is stored in the battery. Conversely, when sunlight fades and the load increases, the battery instantly compensates for the power deficit, ensuring that voltage and frequency remain stable.

The Central Electricity Authority (CEA) introduced the 'Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Second Amendment Regulations, 2026' primarily to address the instability caused in the power grid by the rapidly increasing installation of intermittent renewable energy.

As large-scale clean energy generation advances towards national green energy targets, massive quantities of solar and wind energy are injecting unstable and fluctuating power into India's grid network. This amendment establishes structural and technical regulations to modernize infrastructure

and ensure grid reliability.

These regulations are primarily based on the following requirements:

1. Maintaining Grid Stability (Grid-Forming Control)

Conventional renewable energy inverters are "grid-following," meaning they rely on pre-existing, stable grid voltage to operate. As solar and wind energy replace large-scale fossil-fuel generators, the grid loses its natural inertia, increasing the risk of sudden drops (crashes) in voltage and frequency.

Grid-forming inverters: These do not wait for a grid signal; instead, they act as a stable voltage and frequency source themselves. Therefore, even if the main grid fails, they can maintain the power supply without interruption.

The Point



Battery Energy Storage Systems (BESS) act as the backbone of grid-forming inverters. Without a battery, a grid-forming inverter cannot operate at its full potential.

When there is a sudden change in grid load (either a drop or a surge), the grid-forming inverter pumps power from the battery into the grid or absorbs it within milliseconds. It is this rapid response that prevents the grid from collapsing.

- **Solution:** The 2026 amendment mandates that all renewable energy power plants commissioned after July 1, 2027, must incorporate grid-forming (GFM) capabilities in at least 15% of their inverters. Grid-forming inverters operate similarly to conventional synchronous generators, actively establishing and maintaining grid voltage and frequency during disturbances.

2. Balancing electricity supply with intermittent generation

Solar power is generated only during hours of intense sunlight, while wind energy generation is highly unpredictable. To avoid sharp surges in electricity during the day and sudden drops after sunset, it is essential to store clean energy and ensure a smooth supply.

- **Solution:** This amendment mandates the co-location of Energy Storage Systems (ESS) for all new ground-mounted solar and onshore wind projects commencing after July 1, 2027.

- **Initial Phase** (starting July 1, 2027): Developers must add storage capacity equivalent to 10% of their installed capacity, with a duration of at least 2 hours (e.g., a 100 MW solar plant would require a 10 MW / 20 MWh battery).

- **Subsequent Phase** (July 2029 to June 2031): Requirements become stricter, doubling the storage duration to 4 hours while maintaining the 10% capacity baseline.

3. Facilitating Battery Energy Storage Integration

To safely regulate large-scale energy storage infrastructure, the amendment mandates that 100% of the Power Conversion Systems (PCS) used in Battery Energy Storage Systems (BESS) must feature grid-forming control. This ensures that when large amounts of stored battery power are injected into the grid, it stabilizes the electrical network rather than causing disturbances. 



New GST proposal for the **Battery Industry's Scrap Trade** **Compliance Obligations could Increase** **due to RCM and 2% TDS**

The 57th meeting of the GST Council was held in New Delhi on October 8, chaired by the Union Minister for Finance and Corporate Affairs, Smt. Nirmala Sitharaman. New GST recommendations regarding the trading of plastic waste, electrical and electronic scrap, and used tire scrap could impact the battery industry's supply chain. Under the proposal, the buyer is required to pay tax under the Reverse Charge Mechanism (RCM) when purchasing specified scrap from unregistered suppliers, whereas a 2% TDS provision applies to the supply of such scrap between registered dealers.

The battery industry involves the handling of plastic, electrical and electronic waste, and various types of scrap during production, repair, and recycling processes. Given this, it is crucial for battery manufacturers, battery scrap traders, recycling companies, and industrial units to understand these GST recommendations.

RCM on Purchase of Scrap from Unregistered Suppliers

As per the recommendation, when waste and scrap falling under specified categories are sold by an unregistered person to a registered business entity, the responsibility for depositing GST—subject to applicable conditions—will lie with the buyer. These categories include plastic waste and scrap, electrical and electronic waste and scrap, scrap from used tires, and used cooking oil.

Even if the supplier's business turnover is below the prescribed registration

threshold, the registered buyer may still be required to pay tax under the Reverse Charge Mechanism (RCM). The supplier is required to obtain registration in accordance with applicable rules once the prescribed threshold is exceeded.

2% TDS on B2B Scrap Transactions

The recommendation includes a provision for a 2% TDS on the supply of specified scrap from one registered person to another. This could impact battery companies and recycling units that regularly trade in the relevant categories of scrap. Such companies should review their billing, payment, and accounting processes.

What is important for the battery industry?

Battery traders must ensure that the correct category and HSN code are determined for the scrap being bought or sold. It is essential to verify the classification of the specific item and relevant government notifications before assuming that regulations apply—particularly regarding battery scrap and other electronic waste. The Reverse Charge Mechanism (RCM) can impact the buyer's cash flow and tax payment process, while the applicability of TDS provisions may necessitate additional accounting and compliance procedures.

Recommendations of the 57th GST Council Meeting

The GST Council recommended removing arrest provisions under GST,

- ✓ Recommended raising the threshold for prosecution from ₹1 crore to ₹5 crore,
- ✓ Recommended reducing the general penalty from ₹25,000 to ₹10,000,
- ✓ Recommended expanding the scope of eligibility for input tax credit and refunds,
- ✓ Recommended further simplifying registration and compliance procedures,
- ✓ Recommended expediting refunds to improve working capital for businesses,
- ✓ Recommended setting uniform standards for GST notices and proceedings,
- ✓ Recommended measures to facilitate the movement of goods between states,
- ✓ Recommended intelligence-based and authorized procedures for the interception of goods,
- ✓ Recommended simplified GST registration for small sellers on e-commerce platforms,
- ✓ Recommended measures to facilitate the export of services,
- ✓ Granted in-principle approval for an optional scheme for small consumer-facing businesses with a turnover of up to ₹5 crore.





Global Battery Industry Experts to gather in Goa for the **Indian Lead Battery Conference 2026**

The Indian Lead Battery Conference 2026 is set to be a significant event for the Indian battery industry. Organized under the aegis of the Indian Battery Manufacturers Association (IBMA), the conference will bring together battery industry experts, technical consultants, manufacturers, and representatives from the energy storage sector from India and various other countries.

The conference will be held from November 18 to 20, 2026, at the DoubleTree by Hilton in Panaji, Goa. The event is themed "Powering Today, Charging Tomorrow," focusing on current energy needs and future battery technologies.

Deliberations on New Technologies and Challenges in the Battery Industry

This conference will feature discussions on key topics such as the industrial application of lead-acid batteries, advanced 12V SLI batteries, Battery Energy Storage Systems (BESS), data center batteries, and renewable energy storage.

Amidst rising energy demand, the expansion of data centers, and the growing role of renewable energy, the development of superior performance, reliability, safety, and new technologies is becoming crucial for the battery industry. In this context, the conference will provide an opportunity for industry experts to share their experiences and discuss technological advancements.

International experts and industry representatives to participate

The list of speakers released for the conference includes experts from the battery and energy sectors representing India, US, Germany, Japan, China, UK, and other countries.

Key speakers include Dr. Ahila Krishnamurthy, Dr. Amogh Karva, Aniyam Roy, Dr. Eckhard Karden, Ganesh Murthy, Dr. Jun Furukawa, Kevin Jones, Liang Yunchao, Dr. Masaki Onishi, and Dr. Matt Raiford.

Additionally, the list of speakers includes Mr. Manoj Pandey, Dr. Michael McDonagh, Mrinal Kanti Sen, Parth Dasgupta, Prof. Plamen Nikolov, Rakesh Chaturvedi, Santu Saha, Sandeep Tunguri, Sandeep Krishna P., and K. Santosh Kumar.

Key Technical Themes of the Conference

According to the agenda, the conference will focus on the following key themes:

- ✓ **Industrial Use of Lead-Acid Batteries:** The role of lead-acid batteries in various industrial applications.
- ✓ **Advanced 12V SLI Batteries:** Battery technology and development prospects for modern vehicle systems.
- ✓ **Battery Energy Storage:** The growing utility of batteries in energy storage systems.
- ✓ **Data Center Batteries:** Requirements for continuous power supply and energy security in data centers.
- ✓ **Auxiliary Batteries:** The role of auxiliary batteries in various vehicle and industrial systems.
- ✓ **Renewable Energy Storage:** Discussions on BESS technology and the future of energy storage.
- ✓ **Battery Manufacturing Technology:** Topics related to separators, battery design, and technical innovations.

Experts will present their insights on various aspects of modern energy storage solutions alongside lead-acid battery technologies.

Why is this conference significant for the Indian battery industry?

The demand for batteries remains consistently high across India's automotive, industrial, telecom, inverter, and energy storage sectors. In this context, exchanging technical knowledge, improving quality, enhancing production capacity, and gaining insights from global industry experiences can prove beneficial for Indian manufacturers.

This conference can also provide opportunities for battery manufacturers, technical experts, equipment suppliers, and industry representatives to engage in dialogue and explore potential business collaborations.

The Indian Lead Battery Conference 2026 is set to become a significant platform for deliberating on the technological advancements, energy storage, and future challenges of the battery industry. This three-day conference in Goa will provide delegates from the battery sector with an opportunity to gain insights into new technologies, industrial applications, and the experiences of global experts. ☐

Seeking a New Path Amidst the Challenges of a Changing Battery Industry

Sh. Ajay Gupta—Vice President of the Federation of Indian Small Scale Battery Associations (Delhi) and President of the Indian Battery and Accessories Industries Welfare Association (Mumbai)—highlighted the challenges facing the country's lead-acid battery entrepreneurs.



Changing times, declining business, mounting liabilities, and consistently shrinking margins in the battery industry have posed serious challenges for small and medium-sized business owners. In a recent conversation, he shared their experiences and outlined the reality of the current situation.

Sh. Ajay Gupta noted that business in the traditional battery sector has significantly decreased compared to the past. A major challenge facing many business owners is the need to continuously bear expenses related to staff, vehicles, factories, and other operations, despite falling sales. Furthermore, payment-related issues in the market often result in working capital remaining tied up for extended periods.

Market Evolution Driven by Technology

Over time, the battery industry has witnessed continuous changes in technology and products. There was a time when hard rubber battery containers and covers were widely used; this was followed by the era of

polypropylene (PP) and other plastic containers.

Every technology and product has its own era. As the market shifts towards new technologies and products, businesses associated with older products face the challenge of transforming their operations and adapting to the new landscape.

A similar shift is currently being witnessed in the battery industry. Alongside traditional business operations, the market for new technologies—particularly lithium batteries and new energy systems—is rapidly gaining prominence. In this context, it is crucial for established business owners to understand the direction in which market demand is heading.

During the conversation, Sh. Gupta noted that some units are continuing operations simply because they currently lack an alternative business venture. Factors such as bank loans, GST-related obligations, employee costs, and other financial responsibilities are also exerting pressure on business owners.

The Challenge of Shrinking Margins

In the battery business, merely increasing sales is not enough; the real challenge lies in the margin retained after accounting for all costs.

Even in the branded battery

business, margins are limited to around 3–4% after all expenses. For instance, if a business generates revenue of ₹1 crore, the gross margin might be approximately ₹3–4 lakh. Once GST, employee costs, transportation, office overheads, and other expenses are deducted, the actual net earnings remain quite low.

Payment Issues Linked to Sales

Another major challenge for businesses in the battery industry is the failure to receive payments on time. If payment is not received promptly after a sale, the business owner's capital gets tied up in the market. Meanwhile, the business owner is still required to make timely payments to suppliers and employees, as well as settle bank dues and other expenses.

Is a new direction needed?

Current circumstances indicate that businesses in the battery industry need to seriously understand the changes taking place in the market.

Opportunities are emerging in areas such as new technologies, new products, energy storage, electric vehicles, and lithium batteries. However, a single business model may not be suitable for everyone. Therefore, before entering any new sector, it is essential to study market demand, technical know-how, investment requirements, competition, and potential margins.

At the same time, instead of completely abandoning the existing

business, integrating new products and services based on available resources can also be a viable option.

The Role of Faith and Positive Thinking

An emotional aspect of the conversation was Mr. Ajay Gupta's mention of drawing positive energy through spiritual faith in Bhagavan Sri Sathya Sai Baba and prayer, even amidst difficult economic circumstances. He also shared personal experiences related to prayer and the practice of writing *Namajap* (repetition of the Divine Name) in notebooks.

From a business perspective, during challenging times, practical planning, cost control, payment monitoring, and the exploration of new markets are crucial, alongside a positive mindset.

The Way Forward

The battery industry is currently undergoing a period of transformation. While the traditional battery market faces competition, low margins, and payment-related issues, new opportunities are emerging in the fields of new technology and energy storage.

In such times, it is crucial for business owners to understand market trends, control costs, strengthen payment cycles, and adapt to evolving technologies. Although difficult conditions certainly present challenges, the industry's history shows that shifts in technology and the market also give rise to new opportunities. □

Before you speak, ask yourself: Is it kind, is it necessary, is it true, does it improve the silence?



CPCB Battery Recycling Guidelines 2026:

Compliance Requirements for Lead-Acid and Lithium-Ion Recyclers

– Gravita India Ltd., Jaipur –

Battery recycling in India entered a more structured phase in July 2026 when the Central Pollution Control Board released detailed guidelines for recycling waste lead-acid and lithium-ion batteries. The guidelines translate the broader obligations of the Battery Waste Management Rules, 2022 into practical requirements for recycling facilities.

The guidelines address facility infrastructure, operating procedures, pollution control, worker safety, monitoring, recordkeeping and EPR-related reporting.

This guide explains the major requirements under the CPCB Battery Recycling Guidelines 2026 and what they mean for lead-acid and lithium-ion battery recyclers in India.

Why Did CPCB Issue New Battery Recycling Guidelines?

The Battery Waste Management Rules, 2022 apply to producers, dealers, consumers, collection centres, transporters, refurbishers and recyclers dealing with waste batteries. They cover portable, automotive, industrial and electric vehicle batteries, regardless of their size, chemistry or application.

While the rules establish legal responsibilities, recycling different battery chemistries requires very different infrastructure and safety measures. Lead-acid battery recycling involves corrosive electrolyte, lead-bearing dust, smelting and refining. Lithium-ion battery recycling introduces electrical, chemical and fire risks, along with the controlled processing of black mass.

The 2026 guidelines provide a more specific operating framework for these facilities. They also require recyclers to maintain procurement, recycling, recovered-material sales and EPR-related records through the CPCB online EPR portal.

Businesses that need a broader understanding of producer and recycler obligations can also review Gravita's guide to the Battery Waste Management Rules and EPR compliance.

Who Must Follow the CPCB Battery Recycling Guidelines 2026?

The guidelines are particularly relevant to:

- ◆ Waste lead-acid battery recyclers
- ◆ Lithium-ion battery dismantling and shredding facilities
- ◆ Black mass processors and refiners
- ◆ Integrated lithium-ion battery recycling plants
- ◆ Facilities undertaking collection, handling, storage or transportation are addressed under separate CPCB guidelines issued in July 2026.
- ◆ Producers working with recyclers to meet EPR targets
- ◆ Facilities planning to expand or modernise battery recycling capacity

The technical requirements applicable to a facility depend on the battery chemistry, authorised recycling activity, installed capacity and conditions prescribed by the relevant State Pollution Control Board or Pollution Control Committee.

The Battery Recycling Value Chain Under the Guidelines

The CPCB guidelines address different stages and controls relevant to battery recycling, including handling, discharging or acid draining, storage, sorting, inspection, dismantling and recovery of metals or metal salts. The guidelines address controls for risks such as acid leakage, fire, chemical exposure and fugitive emissions. Storage and processing arrangements should reflect the battery types and activities handled at the facility.

CPCB Requirements for Lead-Acid Battery Recycling Plants

In lead-acid battery recycling, used batteries are dismantled so that plastic components, electrolyte and lead-bearing materials can be handled separately. The recovered lead-bearing material is smelted, refined and cast into lead ingots or converted into alloys according to industrial requirements.

1. Mechanised Battery Breaking

Lead-acid battery recycling facilities with a capacity of more than 5,000 MTA are required to install a mechanical or automated waste battery breaking system within one year from the date of notification of the guidelines. Facilities below 5,000 MTA are given three years.

Battery cutting and breaking should take place on a concrete floor inside a covered structure. Mechanised furnace charging is also encouraged because it reduces manual handling and limits worker exposure to lead dust and fumes.

2. Covered and Acid-Resistant Storage

Used lead-acid batteries require a separate covered storage area with impervious, acid-resistant flooring. The storage system should include an acid collection tank connected to a neutralisation system. Arrangements should also be made to control acid fumes.

Residue, slag and hazardous sludge must be kept in secured, covered areas with concrete floors. Records of their transfer to an authorised Treatment, Storage and Disposal Facility must be maintained.

3. Air Pollution Control Systems

Rotary furnaces, refining kettles and other lead-processing equipment should be connected to appropriate air pollution control systems. Depending on the process, these may include:

- ◆ Suction hoods over charging and tapping points
- ◆ Expansion chambers and cooling ducts
- ◆ Cyclones or multi-cyclones
- Pulse-jet or mechanical-shaker bag filters
- ◆ Alkaline scrubbers
- ◆ Induced-draft fans
- ◆ Stacks with suitable monitoring access

The guidelines specify a minimum stack height of 30 metres for the listed lead-recycling systems. Stack design must also provide safe access and a monitoring platform.

4. Effluent and Acid Management

The CPCB guidelines specify

that the unit should have an effluent treatment plant to treat wastewater from the battery-breaking system, with provision for acid neutralisation. Acidic wastewater from floor washing should be channelled to the neutralisation system.

ETP sludge must be collected, stored and disposed of as hazardous waste. Contaminated plastic battery casings should be cleaned and transferred to registered plastic processors or treated through an authorised in-house system.

5. Lead Exposure Monitoring

The guidelines prescribe limits for lead in the work area, stack emissions, effluent and ambient air near the facility boundary. Workers involved in lead-related activities should undergo periodic blood and urine lead testing at least once a year.

Plants must also provide appropriate gloves, masks, boots, aprons and other personal protective equipment. Effective fume extraction and housekeeping remain essential because a valid consent does not compensate for poor control of fugitive lead emissions.

CPCB Requirements for Lithium-Ion Battery Recycling Plants

Lithium-ion battery recycling requires a different compliance approach. Batteries may retain electrical charge and contain flammable electrolytes. Mechanical damage can create short circuits, chemical exposure or thermal runaway.

CPCB classifies non-lead-acid

battery recyclers according to their activities:

- ◆ R2: Battery dismantling and physical separation up to black mass generation

- ◆ R3: Black mass processing until metals are obtained in compound form

- ◆ R4: Battery dismantling, physical separation and black mass processing/refining

1. Dedicated Storage and Fire Protection

Different types of lithium-ion batteries should be stored in dedicated areas. Storage and utilisation areas require appropriate fire-protection systems, which may include hydrants, sprinklers and foam-type extinguishers.

The shredding/crushing unit should use flameproof electrical fittings and appropriate fire-protection measures. Fire-protection systems should be regularly checked and maintained.

2. Safe Discharging and Dismantling

Before dismantling, battery packs should be discharged to a safe level. CPCB also specifies voltage measurements during the dismantling process and temperature checks to identify anomalies.

During dismantling, external casings, battery management systems, electronics, cables and other components are separated before cells or modules enter the next processing stage.

3. Controlled Shredding and Separation

Shredding and crushing systems

require temperature control, safe feeding arrangements and systems for collecting electrolyte or controlling its emissions. Magnetic and density separation can then recover iron, copper, aluminium and plastics while separating the black mass.

Black mass separation should take place in a covered area with suitable suction and filtration systems. Mechanised loading, unloading and transfer reduce exposure and material loss.

For a closer look at the recovery stages, see Gravita's explanation of the lithium battery recycling process.

4. Black Mass Processing

Hydrometallurgical processing uses controlled leaching, filtration, purification, solvent extraction and precipitation to recover materials such as lithium, cobalt, nickel and manganese in the form of metal salts.

Processing areas may require alkaline scrubbers, bag filters and activated-carbon filtration to manage acid fumes, particulate matter, metallic salt dust and volatile organic compounds. Wastewater and treated effluent should be managed in accordance with the applicable process requirements and the conditions specified by the concerned SPCB/PCC.

Emission Monitoring and Environmental Compliance

The lithium-ion section specifies limits for source and work-zone emissions, including particulate matter, manganese, sulphuric acid mist, fluoride compounds, cobalt, copper and nickel.

Specified source and work-zone

parameters must be monitored quarterly during the first year. Monitoring results should be submitted to the concerned SPCB/PCC in accordance with the applicable Consent to Operate conditions.

Recyclers should maintain monitoring results, production records and consent-related records consistently to support regulatory reporting and verification.

CPCB Registration, EPR Certificates and Quarterly Returns

Recyclers covered by the guidelines are required to register on the CPCB online EPR portal for Battery Waste Management and comply with applicable approvals and consent conditions.

Recyclers must:

- ◆ Report financial-year-wise waste battery procurement data
- ◆ Report the quantity of batteries recycled
- ◆ Report sales of recovered materials
- ◆ Generate EPR certificates through the online portal
- ◆ Transfer valid EPR certificates to producers
- ◆ Submit quarterly returns through the EPR portal
- ◆ Maintain consistency between

procurement, processing, recovery and sales records

Accordingly, procurement, recycling, recovered-material sales and EPR records should be maintained consistently to support accurate reporting.

What Happens When a Recycler Violates the Guidelines?

The CPCB guidelines state that action against violations will be taken in accordance with the Guidelines for Environment Compensation under the Battery Waste Management Rules, 2022, published in September 2024.

Practical Compliance Checklist for Battery Recyclers

- ◆ Confirm that the facility's CPCB EPR registration, applicable SPCB/PCC approvals and Consent to Operate conditions cover the activities being undertaken.
- ◆ Confirm that the facility's authorised recycling activities and applicable R-category, where relevant, are correctly reflected in its approvals.
- ◆ Review battery storage, discharge, dismantling and material-transfer areas.
- ◆ Check whether automated lead-acid battery breaking applies to the plant's capacity.

Without love, nothing can be achieved in this world.
Love is the source and sustenance for the entire
universe. Love is God and God is love.

– Bhagwan Shri Sathya Sai Baba

- ◆ Validate APCS, ETP, fire-protection and emergency-response systems.

- ◆ Align monitoring schedules with Consent to Operate conditions.

- ◆ Reconcile procurement, recycling, recovered-material sales and EPR data.

- ◆ Maintain hazardous-waste and TSDF transfer records.

- ◆ Train employees for the battery chemistry and chemicals they handle.

- ◆ Review compliance after every capacity, technology or process change.

Building Compliant Battery Recycling Capacity in India

The CPCB Battery Recycling Guidelines 2026 set out requirements covering facility infrastructure, battery handling, pollution control, worker safety, monitoring and EPR-related reporting.

For lead-acid recycling, the guidelines address battery breaking, acid management, lead-emission control, effluent treatment and worker exposure monitoring. For lithium-ion recycling, they address safe discharge and dismantling, fire protection,

shredding, separation, black mass processing and process-specific pollution controls.

The CPCB Battery Recycling Guidelines 2026 make one principle clear: compliant battery recycling depends on a well-controlled operating system covering infrastructure, processes, safety, monitoring and traceability.

Through its Back2Recycle initiative, Gravita provides an integrated solution for the complete journey of end-of-life batteries, from collection and safe transportation to responsible recycling and recovery of valuable materials. The initiative brings together collection, compliance, safe handling and recycling under one connected ecosystem, helping ensure that batteries are directed to the right recycling pathway.

Gravita operates across lead-acid and lithium-ion battery recycling and has developed industrial recycling capabilities supported by material recovery, environmental controls and regulated procurement. Businesses evaluating a new facility can also explore Gravita's guide to setting up a battery recycling plant in India.

For battery recycling, recovered-material supply or project-related enquiries, contact Gravita India.



Let there be unity between
your thoughts, words and
deeds. That is triple purity
(Trikarana shuddhi).

– Bhagwan Shri Sathya Sai Baba

Frequently Asked Questions

Q. What are the CPCB Battery Recycling Guidelines 2026?

A. They are guidelines issued by the Central Pollution Control Board in July 2026 for environmentally sound recycling of waste lead-acid and lithium-ion batteries. They cover facility infrastructure, operating procedures, pollution control, safety, monitoring, recordkeeping and EPR reporting.

Q. Do battery recyclers need CPCB registration?

A. Yes. Eligible recyclers must register through the CPCB EPR portal for battery waste management and comply with applicable approvals and consent conditions issued by the concerned SPCB or PCC.

Q. What are R2, R3 and R4 lithium-ion battery recyclers?

A. R2 facilities undertake battery dismantling and physical separation up to black mass generation. R3 facilities process black mass until metals are obtained in compound form. R4 facilities undertake battery dismantling, physical separation and black mass processing/refining. These categories apply to battery types other than lead-acid batteries, as specified in the CPCB

guideline.

Q. Is automated breaking compulsory for lead-acid batteries?

A. Lead-acid battery recycling facilities with a capacity of more than 5,000 MTA are required to install mechanical or automated waste battery breaking within one year from the date of notification of the guidelines. Facilities below 5,000 MTA are given three years.

Q. How frequently must battery recyclers file returns?

A. Recyclers are required to submit quarterly returns through the CPCB online EPR portal. Procurement, recycling, recovered-material sales and EPR certificate data should remain consistent across the reporting period.

Q. Do the 2026 guidelines replace the Battery Waste Management Rules, 2022?

A. No. The July 2026 guidelines operate under the Battery Waste Management Rules, 2022. The CPCB document also states that they apply in addition to the January 2025 guidelines for utilisation of lithium-ion battery black mass and the January 2024 SOP for recycling lead scrap and used lead-acid batteries. □

As soon as thoughts come to your mind, you must try to spend some time and decide whether those thoughts are good or bad. If they are bad thoughts, you must immediately put them aside; and if they are good thoughts, you must try to promote them.

– Bhagwan Shri Sathya Sai Baba

Government Preparing

New Policy to Stockpile Critical Minerals

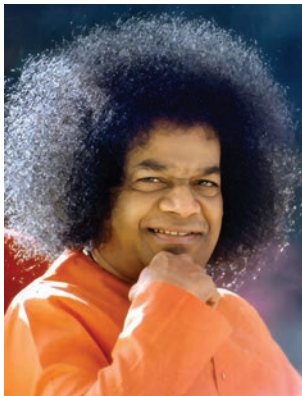
Amid growing concerns over supply chain disruptions and the need to reduce import dependency, the central government plans to introduce a new policy for stockpiling critical minerals within a month.

Speaking at the 'India Mines and Minerals Conclave 2026' organized by ASSOCHAM, Mines Ministry Secretary Keshav Chandra stated, "We are formulating comprehensive plans for stockpiling, and the policy is likely to be finalized within a month."

Significantly, critical minerals such as copper, lithium, nickel, cobalt, and rare earth elements serve as essential raw materials for the development of clean energy technologies and are increasingly used in the manufacturing of wind turbines, power grids, electric vehicles, and batteries.

However, India's processing capacity for these critical minerals is limited, and the country relies entirely on imports for most of them. India's efforts to acquire critical mineral assets abroad are also facing several challenges.

KABIL (Khanij Bidesh India Limited), the government's primary vehicle for acquiring overseas assets, has struggled to expand its footprint in mineral-rich nations like Australia, Vietnam, Mali, and Chile, as proposed investments in critical mineral extraction projects have either stalled or failed to materialize. ❑



Life is a song - sing it.
Life is a game - play it.
Life is a challenge - meet it.
Life is a dream - realize it.
Life is a sacrifice - offer it.
...Life is love - enjoy it.

– Bhagwan Shri Sathya Sai Baba



Exide Commences Operations at First Phase (6 GWh) of Its Lithium Plant

Exide Energy Solutions (EESL) announced on September 23 the commencement of operations for the first phase—with a capacity of 6 GWh—of its lithium-ion cell manufacturing facility in India. The facility is located in Karnataka. This milestone comes more than four years after the leading lead-acid battery manufacturer, Exide, announced its entry into the lithium sector through a collaboration with a Chinese partner.

In March 2022, Exide confirmed a long-term technical collaboration agreement with China's SVOLT Energy Technology for the production of lithium-ion cells. Under the agreement, SVOLT granted Exide the right and license to utilize, leverage, and commercialize its technology and know-how for this venture.



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States Boost Subsidies for Rooftop Solar

State governments are increasing support for the installation of solar panels on residential rooftops. They are providing an additional subsidy of up to ₹51,000 per household, significantly reducing the upfront cost of a standard 3-kilowatt (kW) residential system. According to a report by the Indian Solar Manufacturers Association (ISMA), the cost for customers in Uttar Pradesh and Delhi has dropped below ₹1 lakh, while Uttarakhand and Ladakh are offering the highest level of financial assistance through a combination of central and state subsidies.



Uttarakhand offers the highest total subsidy of ₹1,36,800, comprising ₹85,800 from the Centre and ₹51,000 from the state. This brings the initial cost of a 3-kW system—estimated at ₹2,05,400—down to ₹68,600, the lowest among the markets assessed.

Next is Ladakh, where the total financial assistance amounts to ₹1,35,800. This includes a government subsidy of up to ₹50,000 per household, reducing the cost for the consumer to ₹69,600.

Uttar Pradesh provides an additional ₹15,000 per kW, subject to a maximum limit of ₹30,000. When combined with the Central Government's subsidy of ₹78,000, the total financial assistance reaches ₹1.08 lakh, bringing the net cost for the household down to ₹97,400. In Delhi, families consuming up to 400 units of electricity per month can install rooftop systems of up to 3 kW with zero upfront cost; the Delhi Government covers the gap between the total subsidy and the actual tender or installation cost.

PM Surya Ghar: Muft Bijli Yojana

Central Government Subsidy

- 1 kW system: ₹30,000
- 2 kW system: ₹60,000
- 3 kW and above: ₹78,000 (maximum)





House fire caused by lithium-ion battery in Merseyside, UK

Mother and three children die

A house fire caused by a lithium-ion battery in Merseyside, UK, on September 28 resulted in the deaths of a mother and three children. In a similar incident involving a fire at their home in Bootle just days earlier, 36-year-old Elisha Brabin, 16-year-old Leo Brabin, eight-year-old Elise Brabin, and seven-year-old Prudence Brabin also lost their lives.

According to a spokesperson for the Merseyside Fire and Rescue Service (MFRS), the investigation into the cause of the fire revealed that it originated from an electrical event, causing a lithium-ion battery to enter a state of 'thermal runaway.' 'Thermal runaway' occurs when a battery begins generating more heat than it can safely dissipate, causing its temperature to rise rapidly and uncontrollably.

According to the MFRS, between April 2023 and August 2026, there were five fatalities and 150 fire incidents linked to lithium-ion batteries in Merseyside. □

At birth, all are pure and innocent. But as they grow, they develop arrogance, pride, and ostentation. But this is not proper. People should cultivate humility and discipline, which are the hallmarks of humanness.

E-rickshaw catches fire in Jamui

Two schoolgirls injured

On October 9, two Class 12 students suffered burns after the battery of a moving e-rickshaw exploded and caught fire on the Jamui-Sikandra main road in Jamui district. One of them, 17-year-old Neha Kumari, sustained burns over approximately 80% of her body and was referred to Patna for advanced treatment. The incident occurred around 10 AM while Neha—a resident of Bhagwanpur village in Jamui Sadar block—along with Anjani Kumari (17) and their friend Ruchi, was returning home from coaching classes. Six other passengers were also on board the e-rickshaw.

According to the students, smoke began billowing from the vehicle shortly after it crossed Mahi Sauri Chowk. They alerted the driver and asked him to stop, but he continued driving. The students claim that the driver was wearing earphones at the time.

The battery exploded and the e-rickshaw caught fire near Dr. Neeraj Sah's clinic. All three students jumped from the moving vehicle to save themselves; Neha and Anjani sustained burn injuries. 

Explosion Caused by Battery of Charging E-Scooter

Two Cars Engulfed in Flames

On October 8, a powerful explosion suddenly occurred in the battery of an electric scooter that was plugged in for charging at the home of Miraj, a resident of Roti village in the Jahangirabad police station area. The explosion triggered a fierce fire in the scooter, which rapidly intensified. By the time the family and villagers could bring the blaze under control, two cars parked in the house's veranda had turned into balls of fire. Miraj's scooter was reduced to ashes in the incident, while the two nearby cars were also severely damaged. Miraj had put his e-scooter on charge for the night, after which the family members had their dinner and went to sleep. On Thursday morning, villagers were startled by the sound of the loud explosion, and a large crowd gathered at the scene. Without delay, the villagers managed to extinguish the fire after a strenuous effort using water and soil. Fortunately, Miraj and his family were sleeping away from the vehicles at the time of the incident; consequently, there were no casualties, and a major tragedy was averted. 

Regular Cleaning of Solar Panels Leads to a 5–15% Increase in Electricity Generation

The efficiency of solar panels can be affected by dust, bird droppings, leaves, and pollution. Regular cleaning helps minimize losses in power generation and ensures the solar system continues to perform optimally.

The use of solar energy is growing rapidly in India. From residential rooftops to industrial units and large-scale solar power plants, solar panels play a crucial role in electricity generation. However, simply installing the panels is not enough to achieve optimal power output; regular cleaning and maintenance are equally essential.

How often should solar panels be cleaned?

The frequency of cleaning depends on the location, weather, pollution levels, and the amount of dirt accumulated on the panels. Under normal conditions, it is advisable to inspect them every few months, whereas areas with high dust or pollution levels may require more frequent cleaning.

Please refer to Table 1 for general guidelines. These are estimated intervals, not universal rules; the actual cleaning schedule should be determined based on local conditions and the manufacturer's instructions.

The Right Way to Clean Solar Panels



It is important to exercise caution when cleaning the panels to avoid damaging their surfaces or creating electrical hazards.

1. Use clean water: Use suitable clean water to remove dust accumulated on the panel surface. Water with high mineral content can leave stains.

2. Use a soft brush or cloth: Avoid using stiff brushes, rough cloths, or abrasive materials.

3. Avoid harsh chemicals: Do not use harsh chemicals, detergents, or abrasive substances without the manufacturer's approval.

4. Clean at the right time: It is best to clean the panels early in the morning or in the evening when they are relatively cool. Avoid pouring cold water suddenly onto hot panels.

5. Prioritize safety: Be mindful of the risks of slipping, falling from heights, and electrical hazards when cleaning rooftop panels. Seek the assistance

Condition	General guidelines for cleaning
General urban area	Inspection approximately every 2–3 months and cleaning as needed
High-dust area	Inspection approximately every 1–2 months; cleaning based on the level of dirt
Industrial or polluted area	Regular inspection and more frequent cleaning as required
After rain	Checking for stains and residues remaining on the panels

Table-1

of a trained professional in difficult or hazardous situations.

Benefits of Regular Cleaning

Proper maintenance of solar panels offers several advantages:

- ◆ It helps minimize losses in electricity generation caused by dirt and debris.
- ◆ It assists in maintaining the optimal efficiency of the solar system.
- ◆ It makes it easier to identify the causes of any unusual drop in power generation.
- ◆ It enables better planning for system inspection and maintenance.
- ◆ It allows for more effective utilization of the energy generated by the solar power plant.

Under certain conditions, cleaning can improve electricity generation by 5–15%, though this is not guaranteed for every system. The extent of the benefit depends on the initial level of soiling on the panels and local environmental conditions.

Significance for the Solar and Battery Sectors

Optimized solar panel performance is crucial for households, commercial establishments, and industrial units that utilize solar energy to reduce electricity costs. Adequate solar power generation is also beneficial when the system is integrated with Battery Energy Storage Systems (BESS) or other backup arrangements.

If power generation drops due to dirt accumulation on the panels, the system's total energy availability may be affected. However, the actual impact on battery charging will depend on factors such as system design, battery capacity, power consumption, and the amount of solar energy available.

Regular cleaning and timely inspection are vital measures for maintaining optimal solar panel performance. Therefore, consumers, industries, and solar plant operators should establish a cleaning schedule tailored to their specific local conditions.





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- ✓ Your company name will appear under your state and city in the Online Battery Directory Portal.



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Dt. 21st January 2026

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The advertising rates per insertion are as follows:

	Total
1. Front cover (Size 12.5 cm x 14cm)	₹ 18,000 + 5% GST
2. Inside front cover (Size 19 cm x 11cm)	₹ 13,650
3. Page no. 3 (Size 19 cm x 11cm)	₹ 12,600
4. Back cover (Size 19 cm x 11cm)	₹ 15,750
5. Inside back cover (Size 19 cm x 11cm)	₹ 11,550
6. Opp. State Map or opp. beginning of the Address	₹ 10,500 + 5% GST
7. Full page in multi colours (Size 19 cm x 11 cm)	₹ 9,450
8. Half page in multi colours (Size 9.5 cm x 11 cm)	₹ 5,250
9. One fourth page in multi colours (Size 4.5 cm x 11 cm)	₹ 2,835
10. Full ordinary page in Black & White (Size 19 cm x 11 cm)	₹ 5,250
11. Half ordinary page in Black & White (Size 9.5 cm x 11 cm)	₹ 2,730
12. One fourth page in Black & White (Size 4.5 cm x 11cm)	₹ 1,575



Special features of
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- ✓ 1528 pages in two parts
- ✓ Details of 6246 firms involved in Battery Industry/Trade
- ✓ 2363 Firm's Verified GST Numbers
- ✓ 254 Firm's Verified

UDYAM Numbers

- ✓ List of 64 types of industries related to batteries
- ✓ WhatsApp nos. of 2964 firms
- ✓ E-mails of 3228 firms
- ✓ Websites of 1566 firms
- ✓ 1231 changes/amendments in last year's Directory
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CHANDRA MOHAN
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13. Front Page of Battery Directory Website (Size 100 px x 700 px)

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UNION BANK OF INDIA	520101018250706	UBIN0920711	GTB Enclave, NVM, Delhi-93
PhonePe / Google Pay / Paytm Account	CHANDRA MOHAN - Mobile No. 9810268067 in A/c: 113301000225		

The addresses of 6246 Battery Entrepreneurs/businessmen from India and abroad have been published in the Annual Battery Directory-2026 (page 1528, two parts). The Annual and Fortnightly Battery Directory is the best medium to reach all the major battery/battery parts entrepreneurs from India and abroad. To advertise in the fortnightly issues and in the Annual Battery Directory-2027, please contact Anuradha: 9971150801, Chandra Mohan: 9810268067, Shekhar Verma: 9910699538.

Looking forward to serve you.

Yours faithfully,

for **Battery Directory & Year Book**
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✓ **Your product will be promoted among battery entrepreneurs from India and abroad.**

✓ **You will receive a free set of the Battery Directory-2027 (priced at Rs. 650).**

✓ **The Online Battery Directory-2026 subscription fee is Rs. 1000, and this subscription will be provided free of charge. Not only you but also your staff will be able to view and benefit from the directory on their mobile phones, laptops, or computers.**

✓ **Your name will be highlighted in the Product Manufacturing Index.**

✓ **Your mobile number will be added to the Battery Directory WhatsApp group, allowing you to connect directly with battery entrepreneurs across the country and meet your needs within the group.**

✓ **You will receive free access to the Battery Directory's fortnightly issues throughout the year.**

✓ **You can submit articles and news for publication in the magazine.**

✓ **Your photo may be published in the Battery Directory under the "Batterymen at a Glance" column.**

✓ **Your address will be printed in the Battery Directory with your brand name logo, which will draw attention to your address.**

✓ **In the Online Battery Directory, you can easily access the details and advertisements of the people you want to find in a few moments using the search tool. This way, other people can also reach you. This easy access increases business.**

✓ **Your advertisement will appear under your city in the Online Battery Directory portal www.onlinebatterydirectory.com.**

✓ **Your company name will appear under your state and city in the online battery directory portal www.onlinebatterydirectory.com.**

The fee for a one-page color advertisement (including 5% GST) is ₹9,450.

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The fee for a one-page color advertisement (including 5% GST) is ₹5,250.

Chandra Mohan: 9810268067

Benefits of Becoming a Member of the Battery Directory

If you subscribe to the Battery Directory, you will receive the following benefits:-

✓ You will receive a free set of the Battery Directory-2026 (priced at Rs. 650).

✓ The fortnightly issues of Battery Directory (two magazines per month, Hindi and English), which were previously sent by ordinary post, will now be sent by registered post (magazine post) by December 2026. You will receive them within five days of publication.

✓ Your firm's name and address will be published free of charge in the Online Battery Directory and in the Battery Directory-2027, which will be published in January 2027. Entrepreneurs will be able to easily contact you through the search tool.

✓ You will be added to the Battery Directory's WhatsApp group, allowing you to connect directly with battery entrepreneurs across the country and fulfill your needs within the group.

✓ Battery, Inverter, Battery Charger, UPS, and RO manufacturers will find information about you, and you will also be able to contact them.

✓ The magazine publishes news about the activities of various Battery Associations and Battery Federations in the country. You will also be able to connect with the battery world.

✓ Articles on Batteries, Battery Machinery, Battery Chargers, etc. are published in the fortnightly issues of Battery Directory. You will benefit from studying them.

✓ You can also submit your news for publication in the Battery Directory.

The subscription fee for the Battery Directory (hard copy) is only ₹650.

The subscription fee for the Online Battery Directory is only ₹1000.

Chandra Mohan: 9810268067

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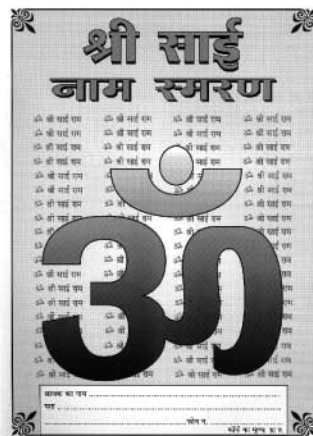
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प्रमुख सेवा कार्य

- * लिखित एवं मौखिक नाम जप हेतु कॉपियाँ अपनी रुचि के अनुसार ईश्वर का कोई भी नाम लिखें अथवा मौखिक रूप से जप करें। भरी कॉपी के बदले नई कॉपी निःशुल्क।
अब तक 19,02,09,396 लिखित नाम जप और 3 करोड़ 33 लाख मौखिक जप की कॉपियाँ भगवान श्री सत्य साई बाबा के चरणों में समर्पित।



- * निःशुल्क एक्स्प्रेसर सेवा
सेवा स्थान: साई दीप, 510, जनता फ्लैट्स, सोमवार, बुधवार और शुक्रवार सायं: 3 से 4
सेवा: श्री मोहन द्वारा
- * निःशुल्क होम्योपैथिक मेडिकल सेवा
सेवा स्थान: साई दीप, 510, जनता फ्लैट्स, प्रत्येक बुधवार प्रातः 8.30 से 10
सेवा: डॉ. आर. के. राठी (BHMS)
- * साई जागृति बालविकास केन्द्र (कोरोना के कारण फिलहाल सेवा स्थगित)
बी-10, लेप्रोसी होम, ताहिरपुर कुष्ठ कॉलोनी, समय प्रातः 9.30 से 12.00 तक
कुष्ठ रोगियों के बच्चों को मानवीय मूल्यों की निःशुल्क शिक्षा व सिलाई कक्षा
- * निःशुल्क लाइब्रेरी – हिन्दी व अंग्रेजी में साई साहित्य पर लगभग 250 टाइटिल, साई फोटो, लॉकेट और विभूति उपलब्ध।
- * समय-समय पर नारायण सेवा
- * बालविकास कक्षाएँ

- * शीतल जल सेवा

Merely Uttering the Name of God is not Enough; it is also essential to fulfill one's Responsibilities with Honesty and Dedication

– Shri Murali Jaju –

On the YouTube channel 'Sri Sathya Sai Hindi', through the 'Dil Se Dil Tak Interview Series', Shri Murali Jaju has described his experiences in the divine presence of Bhagawan Sri Sathya Sai Baba and his association with Him.

Once, during an interview, Swami (Bhagawan Sri Sathya Sai Baba) asked me, "Hey, what do you do?"

I replied, "Swami, I have a factory."

Swami said, "I know you have a factory, but what work do you actually do?"

I said, "Swami, it is my own factory."

Swami continued, "I know you draw money from it, but what work do you do? You don't do any work. You come to the factory—there is a picture of Me in the center; on the sides, there are images of Lord Ganesha, Lord Hanuman, Goddess Durga, and Tirupati Balaji. You arrive at the factory, first recite the Ganesha *shloka*, then chant 'Saishwaraya Vidmahe Satyadevaya Dhimahi Tanno Sai Prachodayat,' followed by 'Manojavam Maruta-tulya-



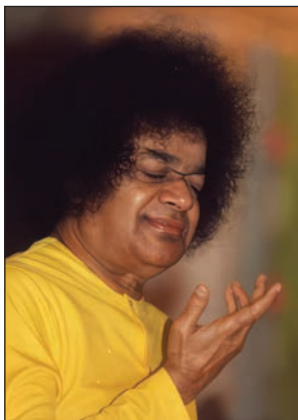
vegam,' 'Sarva Mangala Mangalye,' and 'Shantakaram,' and then walk around the entire factory chanting 'Sai Ram, Sai Ram.' Then you come and sit in your chair, open the Bhagavad Gita, and read it—but you don't do any actual work."

Me: "Swami, I do work."

Swami: "No, you don't do any work; you rely on others while simply chanting 'Sai Ram, Sai Ram,' leaving Sai Ram to do all the work."

Shri Murali Jaju

Shri Murali Jaju hails from the town of Ichalkaranji in the Kolhapur district of Maharashtra. He first heard about Bhagawan in 1977 and visited Prasanthi Nilayam for the first time in 1978. He became the Samiti Convener for Pune, Maharashtra, in 1983. In 1987, he was appointed as the State Coordinator for the Sri Sathya Sai Seva Organisation, Maharashtra and Goa. Subsequently, he served as a Zonal Coordinator and later as the State Vice President of the Sri Sathya Sai Seva Organisation, Maharashtra and Goa. Shri Murali Jaju is currently the National Spiritual Coordinator of the Sri Sathya Sai Seva Organisation.



I folded my hands and bowed to Swami in reverence; then He said to me, "Look, when you go to the factory, do the work. You take the money, don't you? So, do the work as well."

After this incident, when I visited the factory and checked the accounts, I discovered that people were siphoning off money by recording inflated expenses—for instance, claiming an expense of ₹5,000 in the accounts when only ₹4,000 had actually been spent.

This experience taught me that merely chanting the name of God is not enough; fulfilling one's responsibilities with honesty and integrity is equally essential.

A Test of Swami's Omniscience

Once, while Swami was delivering a lecture in Whitefield, Vijay Shah—who taught there—thought to himself, "Swami is currently giving a lecture; how could He possibly be thinking of me? Let me put Swami to the test." With this in mind, Vijay closed his eyes and focused his thoughts on Swami. Swami paused

His speech and said, "This is Vijay; he performs his *sadhana* every morning and remembers Me daily." Having said this, Swami resumed His speech exactly where He had left off. Hearing his own name spoken by Swami moved Vijay to tears. Everyone assumed he was crying because Swami had thought of him during the talk, but only he knew the true reason. Later, he revealed this entire incident publicly in the presence of Swami at Kulwant Hall.

I decided to put it to the test as well.

I remembered that incident from that day. I was at home and said, "Swami, I am thinking of You today. Please let me have that experience too. I have no doubts, Swami; it isn't strictly necessary for me to have an experience, but I would be happy if You simply acknowledged that I was thinking of You that day."

Five days later, I received a letter from the very brother whom Swami had called for an interview alongside me—the one Swami had scolded. Swami had summoned that brother for an interview at 7:30. At 7:45—while I was sitting here in meditation—Swami called him inside and asked the first question: "How is Brother?" The man replied, "Swami, I have only one sister." Swami raised His hand and said, "He was with you in the interview that day; you called him 'Brother'—not a cousin, but an adopted brother."

Swami asked him, "Brother, do you do any work or not?" Swami himself works a lot; he has even started a new factory—Swami works very hard. He wrote about matters concerning Swami and me in a letter, and I received it

five days later; in it, Swami said, "I remember you when you remember me." At exactly 7:45, Swami spoke to him solely about me.

When Former Prime Minister Chandra Shekhar Sat at Swami's Feet

Once, a doctor accompanied me to Prashanthi Nilayam. He had *darshan* of Swami, was deeply impressed, and subsequently became a devotee of Baba. On one occasion, while we were seated in the queue for *darshan* in Kulwant Hall, he remarked, "Murli Bhaiya, Swami has built a wonderful ashram, but they really ought to provide something for us to sit on—perhaps a carpet or some kind of covering. Making people sit directly on the floor doesn't feel right."

As we sat waiting for the evening *darshan*, a sudden stir rippled through the queue. Everyone noticed that our former Prime Minister, Chandra Shekhar ji, was arriving.

He was overjoyed to see Chandra Shekhar ji, as he had accompanied him for four months during his *padayatra* (foot march) and was associated with his party.

As soon as Chandrashekhar-ji arrived, he paid his respects to Swami. Swami had a chair brought out, but Chandrashekhar set it aside and sat on the floor instead. Swami told him, "You are a former Prime Minister; I cannot have you sit like this." Chandrashekhar-ji replied, "Swami, I have not come as a politician; I have come as your devotee. I will sit at your feet"—and he did sit at his feet. When the *darshan* concluded and we all rose to leave, the first thing

he said to me was, "Look at our boss—he sits on the floor at [Swami's] feet, while we ask for a carpet." He was truly overjoyed when he went to meet him.

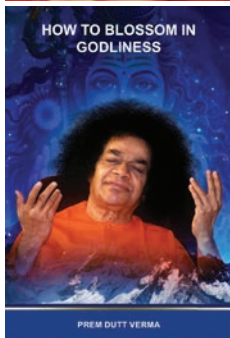
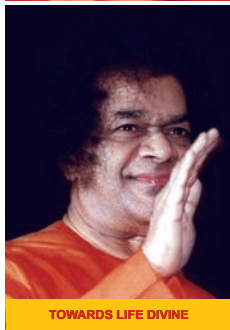
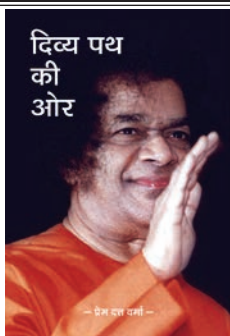
The doctor had the opportunity to share his experiences with Mr. Chandrashekhar. Then, we all went to visit the hospital together. While touring the facility, one of my colleagues on duty remarked to him, "Doctor, Baba has built this massive hospital in just seven months."

Then the doctor replied, "Murali, if it took seven months for Baba to build this hospital, that seems like a long time—don't you think?" His remark upset the others who were on duty. I said, "No, Doctor, you are

right; if it took seven months, that was indeed a long time"—for I knew this man was very astute and always spoke after careful thought. He then looked at the faces of the others and realized they hadn't appreciated his comment. He then told all the devotees that if it took seven months to build this hospital, it was not a long time—considering that the One who created the sun, the moon, and the entire universe did so in mere moments through the power of His *sankalp* (thought/will).

Then, everyone's faces lit up again, for the doctor had become fully convinced that Bhagavan Sathya Sai Baba is the Lord of the Universe—the One who created the cosmos. To watch the video, please visit the link: <https://youtu.be/b54NpsQgFtl?si=EXde9coLD-ScAJeb>





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