






The Electric Merchants' Association

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NOTICE OF THE 89TH HALF YEARLY ORDINARY GENERAL MEETING

Members of the Association are hereby informed that as per the requirement under the rule, 18(D) of the Rules and Regulation of the Association, the 89th Half-Yearly Ordinary General Meeting of the Members of the Association for the year 2025-2026 will be held on Thursday, 18th December 2025 at 05:00pm at IMC, Churchgate to transact the following business.

AGENDA

1. To read and confirm the Minutes of 88th Annual General Meeting held at Garware club hall on Friday, 20th June 2025
2. To receive and adopt the report on the performance of the Managing Committee for the 6 (six) months period from 1st April 2025 to 30th September 2025.
3. To read and approve the list of Association Holidays for the period January 2026 to December 2026.
4. To discuss about the reviewing the constitution, proposed by the house at 88th AGM.
5. Any other matter with Permission of Chair.


Vote of Thanks.

Please Note:

As per rule 20 of the Rules and Regulations of The Electric Merchants' Association, no business shall be transacted, if within 30 (thirty) minutes of the hour specified for the meeting no quorum is formed. In such a case, the meeting shall stand adjourned. An adjourned meeting shall transact business for which it is called, without the necessary quorum.

For, The Electric Merchants' Association
Sd/-
Mr. Ameet Shah , Mr. Chintan Sanghvi
(Hon. Secretaries)

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NEW YEAR GET TOGETHER

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SEMINAR

by



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SINCE 2011

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For, **The Electric Merchants' Association**

Sd/-

Mr. Ameet Shah , Mr. Chintan Sanghvi

(Hon. Secretaries)



PRESIDENT'S *message*

EMA Family,

As we reach the halfway mark of my tenure, I wanted to take a moment to express my heartfelt gratitude for the unwavering support and enthusiasm of each one of you. From the very first day I was elected, to today, every event, every initiative, and every milestone we've achieved has been a testament to the power of our collective strength.

Whether it was the staff insurance drives, Technical visit, Gennext and New Year meet-and-greets, or our Staff Get-Together, every event has been a resounding success thanks to your dedication and passion. The energy and excitement you bring to every endeavor is what makes EMA truly special.

As we move into the second half of our journey, I can assure you that the best is yet to come! With initiatives like knowledge-sharing sessions, exciting trips, and sports events, we're gearing up for an incredible ride.

I also want to request your active participation in updating your records and embracing the digitalization steps we've taken. Your involvement is crucial to our continued success.

Thank you for being an integral part of EMA, and let's keep moving forward with the same enthusiasm and commitment!

Regards,

Prem Ketan Vora

President, EMA 2025-2026

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EMA Family,

I'm overwhelmed with gratitude as I look at each one of you! Your trust, support, and blessings mean the world to me and my team. This achievement is not mine alone, it's OURS! We're not just members, we're a family, and together, we've proven that unity is our strength. Being a members Each one of you has played a vital role in this journey, and I'm honored to be part of it. Let's celebrate this moment, and let's cherish the bond that makes us unstoppable! Me and my team are proud to say that we're in this together, always! Let's keep shining,



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THE ENTREPRENEURS OF INDIA

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- LEADERSHIP
- STORIES
- BUSINESS INSIGHTS

PREM K VORA



FULL STORY ON

16

PRESIDENT - THE ELECTRIC MERCHANTS' ASSOCIATION (EMA)

LEADING EMA'S LEGACY INTO A NEW ERA OF INNOVATION AND UNITY

Entrepreneurs of India

"The best leaders are those most interested in surrounding themselves with assistants and associates smarter than they are."
--Ratan Tata



THE ENTREPRENEURS OF INDIA

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The Entrepreneur of India

Piyush Mohani



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Prem K Vora

President - The Electric Merchants' Association (EMA)

Prem Vora carries the pride of leading one of Mumbai's oldest trade bodies, the Electric Merchants' Association. Known for its 100-year legacy, for him, this presidency is not just a professional role but a personal calling rooted in years of connection with the city's electrical field. Having grown within this community, he has led the association through steady, consistent growth and steady progress in its mission.



Founded in 1937, The Electric Merchants' Association has stood through decades of economic and technological shifts. Its strength lies in transparency, teamwork, and a genuine spirit of service among its members. Every committee has worked with honesty, ensuring that EMA serves their true purpose. This sense of belonging has been the association's secret, keeping members connected through both challenges and celebrations. Over the years, it has evolved alongside changing markets and new technologies, yet never lost sight of its original values.

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Stay united, stay innovative, and stay grounded. True growth comes when we uplift each other and create opportunities that benefit everyone.

As I often say, "Tradition gives us strength, and transformation gives us direction." My vision for EMA is to continue blending both - building a future where heritage meets innovation and progress is shared by all.

The Electric Merchants' Association
Empowering Member's Aspirations

The Entrepreneur of India

These steps, Prem finds, can help the community adapt better to the changing world of electrical trade. Education and skill development for its EMA members. Every voice matters, whether it comes from a large manufacturer or a small trader. Regular feedback meetings and open discussions ensure that no one is left behind.

The Electric Merchants' Association (EMA) is a community of electrical trade professionals. It is a community that is focused on the needs of the modern man. It is a community that is focused on the needs of the modern man.

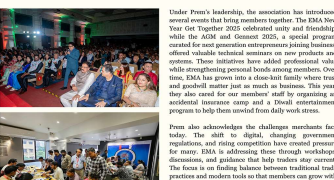
Today, EMA acts as a unifying body for the electrical trade community in Mumbai. It connects traders, manufacturers, and policymakers, helping maintain balance in a competitive field. Regular seminars and knowledge programs have kept members informed about new standards, safety norms, and market trends.



Managing Committee 2025-2026

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Under Prem's leadership, the association has introduced several events that bring members together. The EMA New Year Get Together 2025 celebrated unity and friendliness, while the EMA and Cosmos 2025, a special program created for new generation entrepreneurs joining business, offered valuable technical sessions on new products and systems. These initiatives have added professional value while strengthening personal bonds among members. Over time, EMA has grown into a close-knit family where trust and goodwill matter just as much as business. This year, they also cared for our members' staff by organizing an accidental insurance camp and a dental check-up program to help them unwind from daily work stress.

Prem also acknowledges the challenges merchants face today. The shift to digital, changing government regulations, and rising competition have created pressure for many. EMA is addressing these through workshops, discussions, and guidance that help traders stay current. The focus is on finding balance between traditional trade practices and modern tools so that members can grow with confidence.

As the youngest President in EMA's history, Prem is determined to involve younger business owners in every part of the association. By putting them with senior members through mentorship programs, he hopes to bridge generations and keep the organization moving forward with shared purpose. His message to members and the larger business community is rooted in unity and progress. "Stay united, stay innovative, and stay grounded," he says. For him, EMA's journey is not just about business, but about people coming together to grow with integrity, wisdom, and faith in collective progress.

Pillars of EMA (Past Presidents)

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ARVIND AGARWAL

ARVINO



There's no substitute for hard work, and success comes to those who are willing to take bold steps in their creativity. Never hesitate to innovate or bring something new to the world. Stay fearless in your creations and always uphold great karma.

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Remember, Networking is a great way to build Business!



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SMART CITIES, SMARTER CITIZENS



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HOW URBAN INDIA IS EMPOWERING TECHNOLOGY, DESIGN, AND DATA LED PLANNING

Technology drives urban India's city planning. It's not just about infrastructure, but about creating smart, sustainable, and inclusive cities. It's about using data and technology to improve the quality of life for all citizens. It's about creating a future where technology and design work together to create a better world.

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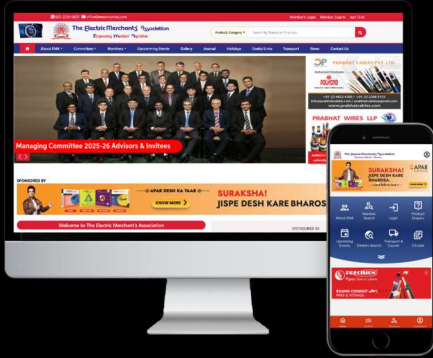
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Each EMA Member is entitled to the following free of cost- on the EMA Website and EMAMobile App

- 1 Brand Listing
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This initiative is aimed at increasing your digital visibility and strengthening your business reach within the EMA network and beyond.

ADVERTISEMENT REQUEST FORM

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Meeting with Adv. Rahul Narwekar

MLA - Colaba Assembly Constituency and Speaker - Maharashtra Legislative Assembly



The Electric Merchants Association (EMA) was honored to receive a warm invitation from **Mr. Rahul Narwekar, MLA** from the **Colaba Assembly constituency** and **Speaker** of the **Maharashtra Legislative Assembly**, to a Diwali Get-together at the prestigious Maharashtra Vidhan Bhavan on Tuesday, 4th November 2025. This invitation reflects the strong connection between the business community and the government, and EMA is grateful for the opportunity to engage with esteemed leaders like **Mr. Narwekar**.

The event saw an impressive turnout of office bearers from various associations, showcasing the collective interest in strengthening business-government relationships.

Representing EMA were President **Mr. Prem Vora**, Vice President **Mr. Parin Parikh**, Secretary **Mr. Chintan Sanghvi**, Treasurer **Mr. Nayan Pandya**, and Past President **Mr. Prashant Parikh**. The gathering provided a

valuable platform for the office bearers to discuss pressing issues affecting the business community, share concerns, and explore potential solutions with Mr. Narwekar.

The Diwali Get-together was a pleasant and enriching experience, with high tea offering a relaxed atmosphere for networking and conversation. Mr. Narwekar's gracious hospitality and words of gratitude towards the attendees underscored his commitment to the business community's welfare.

EMA's participation in this event was significantly facilitated by the valuable recommendation of Mr. Janak Sanghvi from Saarthi Foundation, whose support and influence played a pivotal role in securing the invitation. EMA extends its sincere appreciation to Mr. Sanghvi for his continued support and encouragement, fostering stronger ties between the business community and government officials.

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89TH HALF YEARLY ORDINARY GENERAL MEETING

The Electric Merchants Association

Members are hereby requested to kindly attend the **89th Half Yearly Ordinary General Meeting** and a **SEMINAR (Seminar by KUMAR'S FINANCIAL SERVICES)** followed by Dinner.

Maximum 01 (One) persons per 01 (One) firm with a Refundable Deposit of Rs. 200/- (Rupees Two Hundred Only) (Cash Only) & 01 Guest member are entitled to attend, with a Refundable of Rs. 300/- (Rupees Three Hundred Only) (Cash Only)

DETAILS OF THE PROGRAM:

Date : 18/12/2025
Day : Thursday
Time : **AGM** : 6.00 pm to 7.00 pm
Seminar : 7.00 pm Onwards
Venue : IMC, Churchgate, Mumbai



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SINCE 2011

PLEASE NOTE:

AGM is open for all the members of the Association. However, those members who wish to join for the seminar should kindly register themselves at EMA office and reserve their seats.

Registration for the Seminar with dinner pass will start from **Tuesday, 2nd December 2025** at EMA Office, between 2:00 pm to 5:00 pm and will be issued to 100 (One Hundred approx.) members only on First Come First Serve basis.

Only Proprietor / Partner / Director / Authorised Nominee as per EMA record of the registered firm are allowed to participate in the Half Yearly AGM.

All are refundable deposit so no GST invoice only cash accepted

REGISTRATION FOR SEMINAR, 18TH DECEMBER 2025

Name of the Company : _____

Name of the : 1 _____ WhatsApp No.: _____

person(s) 2 _____ WhatsApp No.: _____

Food Preference : Person 1: **Jain** **Non-Jain** Person 2: **Jain** **Non-Jain**

Refundable Entry Pass For Member@ Rs. 200 x _____

Refundable Entry Pass For Guest @ Rs. 300 x _____

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Yours Truly,
Mr. Ameet Shah / Mr. Chintan Sanghvi
Hon. Secretaries

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REPORT - NEW YEAR GET-TOGETHER 2025



The Electric Merchants Association (EMA) successfully hosted its **31st Diwali New Year Get-Together (NYGT)** on October 29, 2025, continuing a cherished tradition that has brought members together for over 30 years. Sponsored by **M/s APAR INDUSTRIES LIMITED**, this year's celebration embraced the theme "**RETRO TO METRO**" offering a perfect blend of nostalgia and modernity for members of all age groups.

The event was meticulously organized under the leadership of EMA

President Prem Vora. The Programme Committee, chaired by **Mr. Chirag Shah, Mr. Bhavik Desai,** and **Mr. Chintan Sanghvi,** with guidance from Mentor **Mr. Vrajesh Desai,** put forth remarkable efforts to make this NYGT a grand success.

Special appreciation was extended to Past Presidents **Mr. Ketan Thakkar** and **Mr. Bhavik Parikh** from EMA, along with **Mr. Shashi Amin,** CEO of **Apar Cable Solutions,**



whose collective efforts were instrumental in bringing Apar Industries on board as the event sponsor.

The celebration took place at the iconic **Birla Matushri Sabhagrah,** with dinner arrangements at the adjacent **Sundrabai Hall.** Registration for the event began on October 1 and continued until October 28, operating daily from 2 PM to 5 PM for members' convenience.



REPORT - NEW YEAR GET-TOGETHER 2025



The evening was graced by distinguished **CHIEF GUESTS-Shri Kushalji Desai (Chairman and Managing Director, Apar Industries Ltd), Shri Chaitanyaji Desai (Managing Director, Apar Industries Ltd), and Mr. Shashi Amin**-accompanied by their family members, Members of the Association, all the past presidents of EMA , event also saw participation from dignitaries across reputed corporates, representatives of like-minded associations, members of the media, BMC officials, and LT Marg Police officers. Over 950 attendees filled the auditorium with exuberance and festive spirit.

The program commenced with a warm welcome by **EMA Secretary Mr. Chintan Sanghvi**, followed by the **National Anthem** and **Ganesh Vandana**. The cultural proceedings were beautifully anchored by singer and performer **Mr. Rajesh Iyer** and his dynamic team, joined by



acclaimed **Indian Idol** fame artist **Ms. Ankita Mishra**. A series of melodious performances set the evening's tone before the felicitation segment began.

Mr. Chintan Sanghvi addressed the gathering, highlighting the association's new chapter under its youngest president and an energetic committee dedicated to inspiring the next generation to engage in the electrical industry.

The chief guests-**Shri Kushalji Desai, Shri Chaitanyaji Desai, and Shri Shashi Amin**-joined President **Prem Vora**, Programme Committee members, and office bearers on stage for the



REPORT - NEW YEAR GET-TOGETHER 2025



ceremonial lighting of the diya, symbolizing prosperity and unity. **Mr. Chirag Shah** introduced Apar Industries, sharing its remarkable milestones, innovations, and product range with the audience.

The dignitaries were then felicitated: **Shri Kushalji** and **Shri Chaitanyaji** by **Mr. Chirag Shah**, **Mr. Vrajesh Desai**, and **Mr. Prem Vora** with shawls and mementoes in appreciation; **Mr. Shashi Amin** was felicitated by **Mr. Bhavik Parikh**; **Ms. Ankita Mishra** and **Mr. Rajesh Iyer**, along with all the performing artists, were recognized for their enchanting contributions.

In his address, **Shri Kushalji Desai** reflected on his inspiring journey that began in Lohar Chawl, narrating the growth journey of Apar Industries and emphasizing the importance of safety in the cable and wire manufacturing sector, particularly through advanced e-beam technology.

Excitement continued with a series of lucky draws, adding an element of thrill before EMA Secretary **Mr. Amit Shah** delivered a heartfelt vote of thanks, acknowledging everyone who contributed to the event's success.

The musical fest resumed with captivating performances by **Ankita Mishra** and **Rajesh Iyer's Team**, leaving the audience enthralled. The evening concluded with a sumptuous dinner catered by **Trupti Caterers** at **Sundrabai Hall**, arranged by Past President **Mr. Nirmohi Shah**. Members appreciated the delectable spread and thoughtful return gifts sponsored by Apar Industries - specially curated for men and women, reflecting attention to detail and hospitality.

The Programme Committee extended deep gratitude to all committee members, office bearers and past presidents, who worked tirelessly from registration through the successful culmination of the event, ensuring yet another memorable New Year Get-Together for the EMA fraternity.



AN EMA CARES INITIATIVE



Under the **EMA cares** initiative the Committee Chairman of EMA cares Mr. Yogesh R Dharia has secured assistance for cancer patients.

If any needy person from our member/staff requires an operation for cancer treatment, one of the hospitals will provide aid up to 3 lacs. Either as concessional treatment or free of charge depending on the donor's approval. This support will remain as long as allocate funds are available with the hospital.

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- Liver Profile SGPT | SGOT | Bilirubin
- Lipid Profile Cholesterol | LDL Cholesterol Serum | Triglycerides | VLDL Cholesterol | CHOL / HDL Ratio
- Cardiac Risk Evaluation ECG | Stress Test OR 2D ECHOCARDIOGRAPHY
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- Diabetic Evaluation Fasting Blood Glucose Postprandial Blood Glucose | HbA1c
- Kidney Function Test Serum Creatinine | Serum Uric Acid | BUN | Total Protein | Albumin
- Liver Profile SGPT | SGOT | Bilirubin
- Lipid Profile Cholesterol | LDL Cholesterol Serum | Triglycerides | VLDL Cholesterol | / HDL Ratio
- Cardiac Risk Evaluation ECG | Stress Test OR 2D ECHOCARDIOGRAPHY
- Radiology and Imaging Chest X-Ray | USG Abdomen & Pelvis | Spirometry
- PAP smear
- Consultations Physician | Gynecologist (For Females) | Ophthalmologist | Dietician | Dentist (Complimentary Breakfast)

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We also have tie-ups with Saifee Hospital, Asian Heart Hospital H.N. Reliance Hospital also benefits can be availed for Wockhardt & Apollo Hospital

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REPORT

STAFF ENTERTAINMENT PROGRAM

The Staff Welfare and Entertainment committee under the guidance of managing committee organized Staff Entertainment Program for the staff of EMA members on 1st November 2025 at **Birla Matushri Sabhagarh**. The event was sponsored by M/s **Precision Plastics industries Pvt. Ltd.** **Mr. Vrajesh Desai** of **M/s. Eagle Sales Corporation** played a crucial role in on boarding M/s. Precision Plastic Industries Pvt. Ltd. for the event.



This event of the **Welfare Committee** ie. Musical gala night for the Staff was very well attended by more than 1050 staff members in the auditorium to enjoy the evening with singers. Staff members started to assemble at venue from 6.00 pm onwards . Prior to the musical night staff members enjoyed the Delicious Dinner which was served outside the auditorium compound. EMA committee were overwhelmed by the discipline maintained by staff during the dinner.

The program started with the National Anthem. The lead singers from **Amrit Raj Band** musical orchestra started the show by singing some popular Hindi songs and later with Marathi and Bhojpuri songs. During



REPORT

STAFF ENTERTAINMENT PROGRAM



glittering night, the audience enjoyed the music and joined in singing and dancing, whenever the popular numbers were played. 13 lucky draw prizes including GOA Holiday trip, Led Smart TV, Trolley Luggage bags, Mixer Grinder, Headphones, Hand Blender, Microwave, etc were announce and given to the lucky winners.



Mr Kunal Kadakia, owner of **M/S Precision Plastics Industries Pvt. Ltd.** was not able to attend the event but on behalf of him **Mr. Sayed (CEO)** had attended the event. He was felicitated by our President **Mr Prem vora** and Staff welfare committee chairmen **Mr Bhavik Parikh**. As Mr. Vrajesh Desai couldn't attend the event so on behalf of him **Mr. Bhavik Parikh** felicitated **Mr. Tanmay desai**. Staff of EMA were also Felicitated with gift by introducing them one by one on the stage. With the help of **Mr. Jatin Modi** we could arrange such a wonderful and explosive band which made the crowd move on their feet every minute of the event.

The event came to an end at 10.30 pm. Gifts (Bag pack) were sponsored by **M/S Precision Plastics industries Pvt. Ltd.** were distributed to the staff members. We thank the Whole EMA Team for putting lots and lots of effort including filling the gift in a carry bag before the start of the event to avoid rush later. **The staff members, Precision team and seniors were absolutely thrilled and appreciated the efforts put by Managing committee during the whole Event.**





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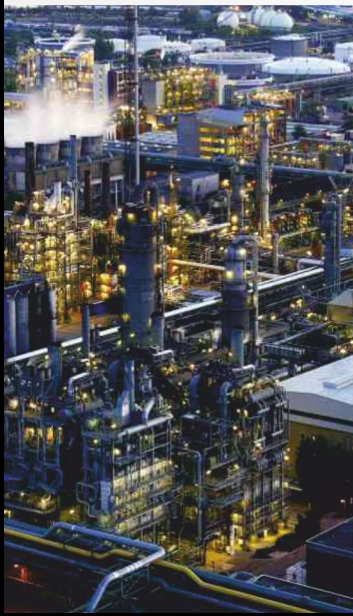


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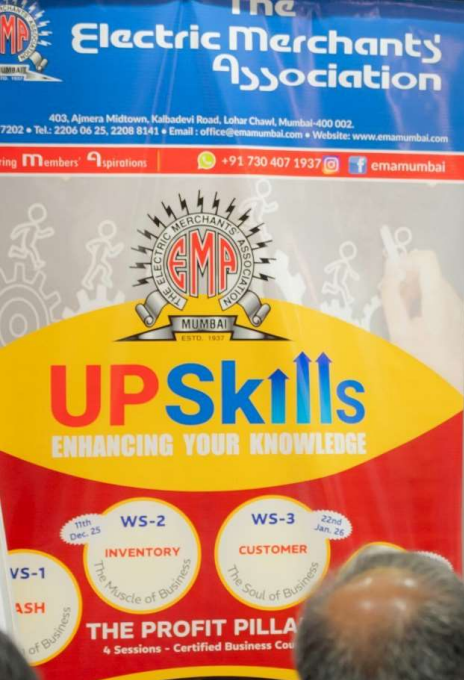
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REPORT - EMA UpSkills: BUSINESS GROWTH PILLARS

Session 1 of 4 "CASH: THE OXYGEN OF BUSINESS"

Date : 20th November 2025

Time : 5:00 PM

Venue : EMA Office Hall

The Electric Merchants' Association (EMA) successfully conducted Session 1 of its newly launched EMA UpSkills – Business Growth Pillars Training Programme on **20th November 2025** at the **EMA Office Hall**. All registered participants arrived on time, enabling the programme to commence promptly at 5:30 PM.

The session began with a warm welcome by **Mr. Nisarg Bavishi**, Chairman – GenNext Committee, who appreciated the participants for their enthusiasm and proactive involvement. He expressed heartfelt gratitude to the programme sponsor, **M/s A. Harilal & Co. Pvt. Ltd.**, for their continuous support towards **EMA GenNext initiatives**.

Mr. Nisarg Bavishi also thanked **Prof. Hiten Muchhala** for partnering with EMA and helping shape this academic-driven learning series. He further acknowledged and appreciated **Mr. Prem Vora**, President – EMA, crediting him as the visionary behind this initiative and inviting him to share a few words. **Mr. Prem Vora** thanked all participants for their commitment and encouraged them to make the most of this structured learning opportunity. He emphasized the importance of upgrading skills, building stronger foundations and networking as a community.



Mr. Nisarg Bavishi introduced **Prof. Hiten Muchhala**, highlighting his unique blend of entrepreneurial and academic experience. With **33+ years** in industry and a decade in strategic teaching at **SP Jain Global campuses**, **Prof. Muchhala** brought deep practical insights to the programme.

Prof. Muchhala began the session by revisiting concepts from his previous talk at the GenNext **"Spark to Scale"** event, followed by a quick refresh of Eisenhower's Decision Matrix, aligning everyone to a common foundation of prioritization and decision-making.

He then moved to the focus area of the day—the first pillar of business growth:

CASH – "THE OXYGEN OF BUSINESS"

The professor elaborated on:

- The critical importance of understanding cash and capital deployed
- Why business owners must view annual ROI the same way they track investment returns
- Strategies for improving ROI
- Practical methods to enhance cash flow
- The significance of Cash Flow from Operations and interpreting it correctly

The participants found the session highly relatable, deeply practical, and aligned with real business challenges. The room remained fully engaged throughout. A short but valuable Q&A session followed, where participants clarified their doubts and discussed specific business concerns.

The session concluded with a vote of thanks to Prof. Muchhala for his insightful and impactful teaching. Participants then enjoyed a delicious dinner arranged by the association, making way for informal networking and interactions.

Session 1 marked a successful beginning for EMA UpSkills — EMA's first academic-style learning initiative for members. The positive engagement and enthusiastic participation set a strong foundation for the upcoming sessions and reinforced EMA's commitment to continuous learning and professional development.



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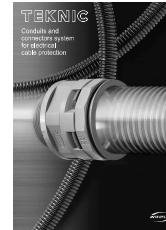
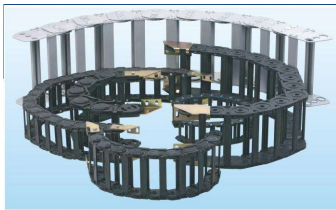


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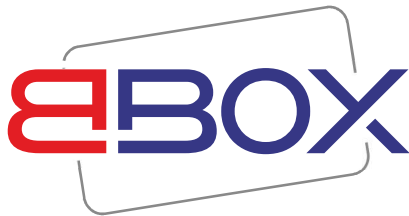
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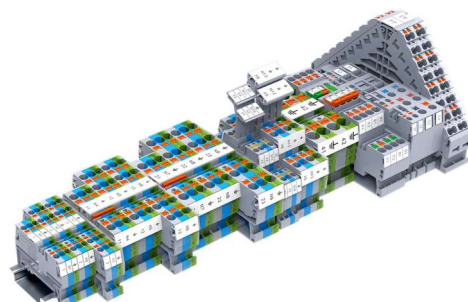


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Request all EMA members to participate in large numbers and help us make it a grand success!!!

PARTICIPATION FEES

EMA Player : 700.00

Spectator : 500.00

Participation fees includes Breakfast, Lunch, Snacks & Playing Jersey for players.

For more information please contact :

Mr. Harsh Muchhala
98335 42638

Mr. Vikas Jain
98335 45636

Mr. Atul Shah
98211 27279

Mr. Parth Shah
97690 50210



The Electric Merchants Association

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Sports plays a very important role in our society for all age groups. Understanding the importance of sports, EMA has successfully organised sports events for past 31 years and continuing the same enthusiasm this year sports committee has also organised family turf cricket for EMA members and their family.

Request all EMA members to join us in making this event a grand success!!!

Booking opens: Monday, 10th November 2025
on first come first serve basis.

ORGANISES

A FAMILY TURF CRICKET TOURNAMENT

Date: 1st February, 2026 | Time : 8:00 am Onwards
VENUE : Urban Sports, Prabodhan Kridabhavan Maidan,
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PARTICIPATION FEES

EMA Player : 700.00 Spectator : 500.00

Participation fees includes Breakfast, Lunch,
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Name of the Player						
Male/Female (M/F)						
Batsman						
Bowler						
All Rounder						
Age (in Years)						
Mobile No.:						
T-Shirt Size						
Food Preference : (Jain / Non Jain)						

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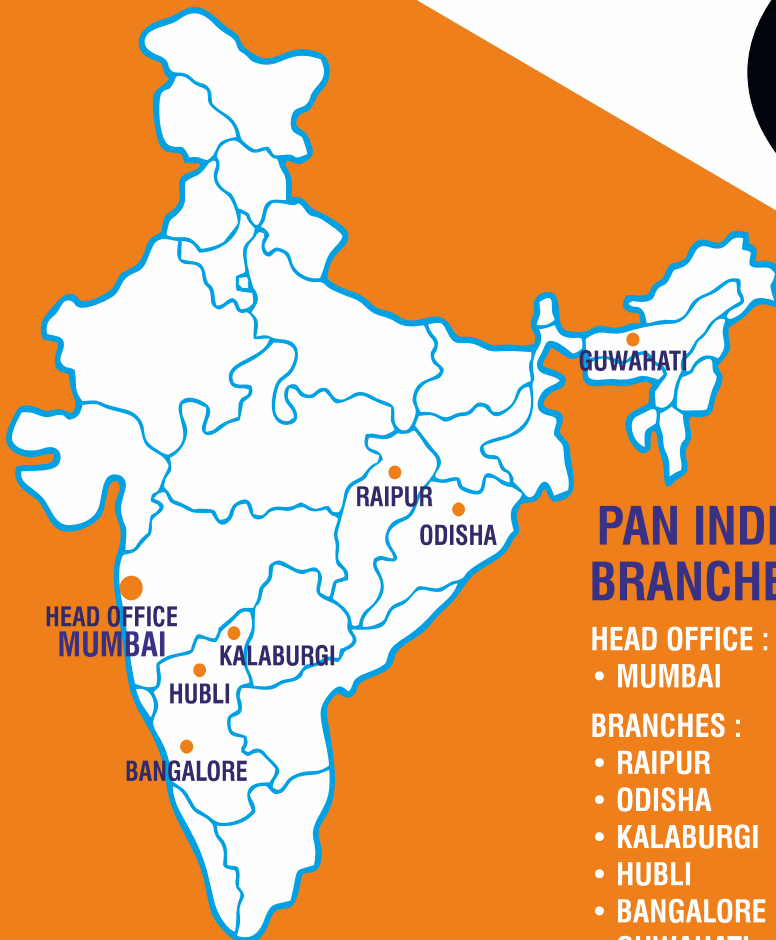


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THE STRATEGIC IMPORTANCE OF BATTERIES IN MODERN ENERGY SYSTEMS

INTRODUCTION

The global energy landscape is undergoing a fundamental transformation driven by the rapid electrification of mobility, accelerated deployment of renewable energy, and rising expectations for power reliability. At the center of this transformation lies **electrochemical energy storage**, particularly batteries, which now represent one of the most strategically important technologies across industrial, transportation, and power sectors.

Batteries are no longer peripheral components. They have evolved into critical infrastructure, supporting decarbonization pathways, enabling grid resilience, and opening competitive opportunities in emerging industries—from electric mobility to distributed energy systems.

WHY BATTERIES ARE A STRATEGIC TECHNOLOGY

Enabling Renewable Energy Integration

Renewables such as solar and wind are inherently intermittent. Modern power systems increasingly rely on battery energy storage systems (BESS) to:

- **Smooth generation variability**
- **Provide ramping support**
- **Shift renewable generation to peak demand periods**
- **Reduce curtailment**
- **Support grid frequency control**

Without large-scale battery storage, high renewable penetration (>40–50%) becomes technically challenging.

ELECTRIFICATION OF TRANSPORTATION

The EV transition is fundamentally a battery transition. Battery performance—energy density, cycle life, charging rate, and cost—directly determines an EV's range, performance, safety, lifetime cost, and market adoption rate.

A NATION'S COMPETITIVENESS IN EV MANUFACTURING IS HIGHLY DEPENDENT ON:

- Access to advanced battery chemistries
- Cell manufacturing capabilities
- Local supply chains for key materials
- Recycling and circularity systems

DISTRIBUTED AND BEHIND-THE-METER APPLICATIONS

Commercial and industrial users are increasingly deploying BESS for:

- Peak-shaving
- Backup power
- Renewable self-consumption Power quality improvement
- Microgrid stability

Battery-backed microgrids are now mission-critical in healthcare, data centers, mining operations, defense installations, and remote infrastructures.

TRANSFORMATION OF TRADITIONAL ENERGY STORAGE MODELS

Historically, energy storage relied on:

- Lead-acid batteries,
- Diesel generators,
- Mechanical storage (pumped hydro, flywheels).

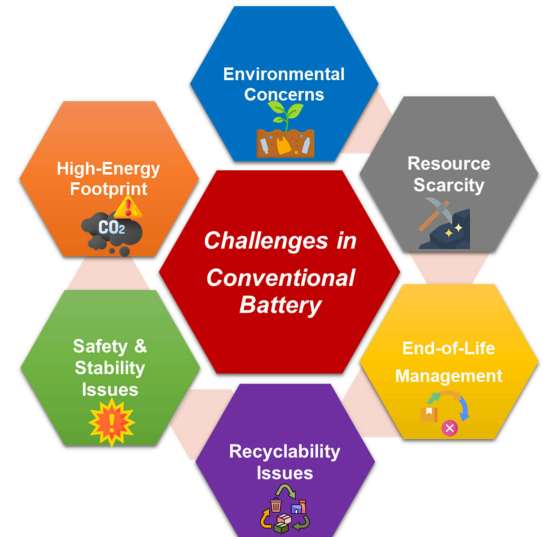
TECH KNOWLEDGE

These legacy solutions face limitations in:

- Scalability
- Efficiency
- Maintenance requirements
- Environmental impact
- Response time

Modern electrochemical batteries deliver:

- High modularity
- Fast response (<200 milliseconds)
- Superior round-trip efficiency (85–95%)
- Low maintenance
- Scalable deployment (kWh → Gwh)



This shift represents a paradigm change in how energy is produced, managed, stored, and consumed.
Comprehensive Battery Technology Comparison Table

BATTERY TYPE / CHEMISTRY	TECHNOLOGY CHARACTERISTICS	KEY ADVANTAGES	KEY LIMITATIONS	MATURITY LEVEL	PRIMARY APPLICATIONS / SECTORS
Lead-Acid	Oldest commercial electrochemical storage; uses lead electrodes and sulfuric acid electrolyte.	Low cost, mature supply chain, strong surge current, highly recyclable.	Low energy density, heavy, shorter cycle life, limited deep-cycle capability.	Fully mature, globally deployed.	Automotive starter batteries, UPS, inverters, telecom backup.
NiCd (Nickel-Cadmium)	Nickel oxide hydroxide cathode and cadmium anode	Durable, long cycle life, works in extreme temperatures.	Cadmium toxicity, memory effect, declining usage.	Mature but declining.	Legacy industrial systems, aviation emergency systems.
NiMH (Nickel-Metal Hydride)	Hydrogen-absorbing alloy anode, nickel oxide hydroxide cathode.	Safer than NiCd, decent energy density.	Heavier than Li-ion, lower performance	Mature, widely replaced by Li-ion	Older hybrid vehicles (Toyota Prius), portable electronics.
Li-ion (General Family)	Uses lithium intercalation compounds; multiple sub-chemistries.	High energy density, lightweight, fast charge, long life cycles.	Thermal management required, mineral supply-chain risks.	Dominant technology	Evs, BESS, consumer electronics, industrial equipment.
Li-ion – LFP (Lithium Iron Phosphate)	Iron-phosphate cathode, graphite anode.	Excellent safety, long life, stable thermal profile, cost-effective.	Lower energy density than NMC/NCA	Industry mature.	Mass-market EVs, grid storage, residential ESS.
Li-ion – NMC (Nickel Manganese Cobalt)	Layered oxide cathode.	High energy density, good power, long range capability.	Expensive metals, cobalt ethical concerns, requires cooling.	Industry mature.	Premium EVs, e-mobility fleets, consumer electronics.
Li-ion – NCA (Nickel Cobalt Aluminum)	Nickel-rich chemistry	High specific energy, used for long-range/high-performance EVs.	Thermal instability risk, cost sensitive.	Mature but niche.	High-performance EVs (Tesla), aerospace
Li-ion – LTO (Lithium Titanate)	Lithium-titanate anode.	Ultra-fast charging, extreme cycle life, high power.	Lower energy density, higher cost.	Mature but specialized.	Buses, grid frequency regulation, industrial vehicles.

TECH KNOWLEDGE

BATTERY TYPE / CHEMISTRY	TECHNOLOGY CHARACTERISTICS	KEY ADVANTAGES	KEY LIMITATIONS	MATURITY LEVEL	PRIMARY APPLICATIONS / SECTORS
Sodium-Ion (Na-ion)	Similar to Li-ion but uses sodium-based cathodes/anodes.	Low-cost materials, good thermal stability, lithium-free supply chain	Lower energy density vs Li-ion, early commercialization stage.	Emerging commercial.	Low-cost EVs, grid storage, residential solar storage.
Redox Flow Batteries (Vanadium / Iron / Organic)	Energy stored in liquid electrolytes circulated through external tanks.	Long life (>15,000 cycles), scalable energy capacity, excellent safety.	Low energy density, high upfront cost, larger footprint.	Commercially maturing.	Utility-scale renewable storage, microgrids, industrial backup.
Zinc-Based (Zn-Air, Zn-Br, Zn-Mn)	Aqueous electrolyte, zinc anodes.	Safe chemistry, low-cost, good for long-duration storage.	Lower round-trip efficiency, cycle life depends on chemistry	Early commercial stage.	Telecom towers, rural grids, commercial ESS, backup power.
Solid-State Batteries (SSB)	Solid electrolyte replaces liquid organic electrolyte.	Extremely high safety, higher energy density, fast charging potential.	Manufacturing challenges, interface issues, high cost.	Pilot / pre-commercial.	High-end EVs, drones, aviation, premium portable devices.
Lithium-Sulfur (Li-S)	Sulfur cathode with lithium anode	Very high theoretical energy density, lightweight, uses low-cost sulfur.	Short cycle life, polysulfide shuttle effect, stability issues.	Research to early pilot stage.	Aerospace, drones, long-range transport (future).
Lithium-Air (Li-O ₂)	Uses oxygen as cathode reactant.	Highest theoretical energy density potential EV range >1000 km.	Extremely early-stage, major stability challenges.	Lab research only.	Future high-energy EVs, aviation (long-term potential).
Organic / Polymer Batteries	Use organic redox-active materials instead of metals.	Environmentally friendly, recyclable, potentially low cost.	Low energy density, limited commercial readiness.	Research stage / early pilot.	Grid-scale storage with sustainability requirements.
Aluminum-Ion	Uses aluminum as anode with graphite or other cathode.	Very fast charging potential, abundant raw material, safe chemistry.	Currently low energy density, needs major optimization.	Research and early prototypes.	Power tools, future grid storage (potential).
Magnesium-Ion / Calcium-Ion (Multivalent Batteries)	Multi-valent metal ions carry 2-3 electrons per ion.	Potential for high energy, abundant raw materials.	Poor ion mobility, electrolyte challenges.	Laboratory research.	Future large-scale storage, utility applications.
Hybrid Supercapacitors (Ultracap + Battery)	Combines fast discharge of capacitors with battery-level energy.	Extremely high power density, very long cycle life	Lower energy density than batteries.	Partially commercial.	EV regenerative braking, grid stabilization, industrial machinery.

OUTLOOK FOR THE BATTERY INDUSTRY

- Li-ion will remain dominant for the next decade.
- Sodium-ion will gain market share in stationary and low-cost mobility segments.
- Solid-state will emerge in premium EV categories.
- Long-duration storage will shift toward redox flow, zinc-based, and emerging chemistries.

Battery technologies are now central to global energy security, electrified transport, and grid modernization. The industry is progressing from traditional lead-acid systems to advanced lithium-ion chemistries and rapidly toward next-generation solutions such as sodium-ion, solid-state, and flow batteries.

As innovation accelerates, energy storage will not only support the growth of renewable energy but also redefine infrastructure planning, transportation, industrial operations, and national energy policies.

In the decade ahead, leadership in battery technologies will determine leadership in the global energy transition.



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IMPORTANT NEWS

A NEW ERA BEGINS, FROM 29 LAWS TO 4 CODES: NAVIGATING INDIA'S NEW LABOUR COMPLIANCE LANDSCAPE



OVERVIEW

In a landmark structural reform, the Government of India has officially made the four new Labour Codes effective as of November 21, 2025. Replacing 29 archaic central labour laws, this consolidated framework aims to modernize India's employment landscape, balancing "ease of doing business" with expanded social security for the workforce.

KEY REFORMS & POINTERS

- Universal Social Security:** For the first time, gig and platform workers (e.g., delivery partners, freelancers) are legally recognized and entitled to social security benefits. Aggregators must now contribute 1-2% of their annual turnover to a welfare fund.
- Gratuity Reform:** Fixed-term employees are now eligible for gratuity after just one year of service, replacing the previous five-year continuous service requirement.
- Universal Minimum Wage:** The "Right to Minimum Wages" has been extended to all workforce sectors, including the unorganized sector, ensuring a standard floor wage across the country.
- Gender Equality & Night Shifts:** Women are now legally permitted to work in all establishments (including factories and mines) and during night shifts (7 PM – 6 AM), subject to strict employer consent and safety protocols.
- New Wage Definition:** To curb the practice of hiding salaries in allowances, the new codes mandate that basic pay must constitute at least 50% of the gross salary. This increases PF and Gratuity contributions, potentially lowering take-home pay but enhancing retirement savings.
- Health Mandates:** Employers must provide free annual health check-ups for all employees above the age of 40.



Conclusion

This shift marks the single largest overhaul of worker rights since Independence. While industries face an immediate compliance adjustment—particularly regarding wage restructuring and contribution hikes—the long-term outlook promises a more formalized, secure, and inclusive Indian workforce.

IMPORTANT NEWS



EMERGING SCIENCE, TECHNOLOGY & INNOVATION CONCLAVE:

In early November, PM Modi inaugurated the conclave. A ₹1 lakh crore R&D Fund was launched to boost public-private partnerships in critical technologies such as quantum computing, AI, space, semiconductors, and advanced manufacturing. The conclave brought together researchers, industry leaders, policymakers, and innovators.

Emerging Science, Technology, and Innovation Conclave

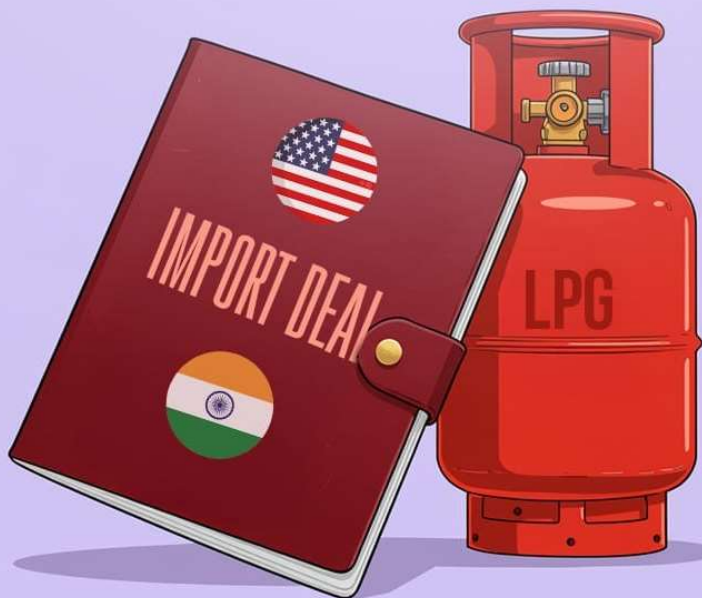
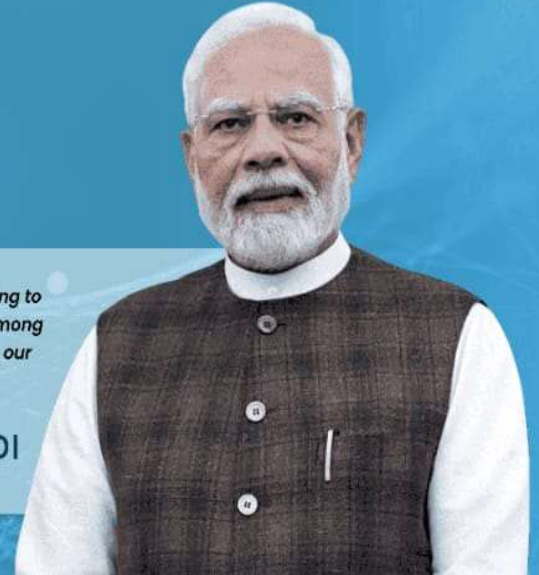
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Bharat Mandapam, New Delhi

Our Government is continuously working to encourage research and innovation among the youth. This is important to realise our dream of a Viksit Bharat

SHRI NARENDRA MODI
Hon'ble Prime Minister of India



ENERGY IMPORTS

India signed its first structured Liquefied Petroleum Gas (LPG) import deal with the United States. Under this deal, India will import 2.2 million tonnes annually, roughly 10% of its LPG demand. This is part of India's strategy to diversify energy sources and reduce dependency on the Middle East.



GREEN ENERGY & EMISSIONS

India recorded its highest-ever greenhouse gas emissions in 2024. However, despite this increase, its per-capita emissions remain significantly below the global average. According to a Guardian analysis, India faces "huge energy challenges" as it tries to scale renewables while meeting rising electricity demand (driven by heatwaves and rising cooling needs). Its energy strategy remains "all of the above," combining coal, solar, wind, hydro, nuclear, and green hydrogen.



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Website : www.dodiaelectricals.com

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Name of the Proprietor

Mr. Shree Jirapure

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Name of the Nominee at EMA

Mr. Shree Jirapure

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Name of the Proprietor

Mr. Aman Manoj Kadakia

Mob. No. 9920650353 / 49230475 / 9892056660

Email Id: kadakia.aman@gmail.com

Name of the Nominee at EMA

Mr. Manoj Kantilal Kadakia

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GST No. 27AZIPP7235K1ZT
Membership No: B/1922/L

Name of the Proprietor

Mr. Rakesh Pandey

Mob. No. 9892318413 / 022-69333848

Email Id: brij.enterprises2017@gmail.com

Name of the Nominee at EMA

Mr. Rakesh Pandey

M/S. V-MARC INDIA LTD

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GST No. 05AAMCA4908L1ZG
Membership No: V/1923/L

Name of the Proprietor

Mr. Deepak Tikle

Mob. No. 9897543231/ 9930244498

Email : deepak.tikle@v-marc.in/
ajit.gawayi@v-marc.in

Name of the Nominee at EMA : **Mr. Ajit Gawayi**

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Membership No : M/1924/L

Name of the Proprietor

Mr. Yogesh Navinchandra Shah

Mob. No. 9821027812

Email : yogesh.shah@msplgroup.com

Name of the Nominee at EMA

Mr. Yogesh Navinchandra Shah

CHANGE OF NOMINEE

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GST No: 27AABPD2588H1ZS

Old Nominee Name:

Mr. Dipesh Navnitlal Desai

New Nominee Name:

Mr. Harsh Dipesh Desai

CHANGE OF NOMINEE & UPDATE NEW GST NO

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Mumbai – 400002
New GST No: 27AAHPD5840N1ZG

Old Nominee Name:

Mr. Ashok Ramanlal Dharia

New Nominee Name:

Mr. Amish Ashok Dharia

9819140187 • amish34@gmail.com

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Lohar Chawl, Mumbai – 400002
New GST No: 27AFVPN0393M1ZM

Old Nominee Name:

Mr. Dinesh Jashvantra Negandhi

New Nominee Name:

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