



SPE Newsletter

SPE(I), Vadodara Chapter

July, 2024 Issue: 3/2024




NATIONAL ELECTION OF INDIA India



ELECTION OF VADODARA CHAPTER

Safety Starts From School

INITIATED BY




NATIONAL ELECTRICAL SAFETY DAY


ALL-INDIA ELECTRICAL SAFETY AWARENESS PROGRAMS

09:30 AM - 1:30 PM | 26TH JUNE, 2024
AUDITORIUM, SCOPE COMPLEX, LOOHI ROAD, NEW DELHI

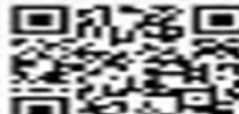
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**The Society of Power Engineers (India)
Vadodara Chapter (Estd. 1996)**

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OFFICE BEARERS & EXECUTIVE COMMITTEE MEMBERS FOR 2024-25



Er. MR Tilwalli
Chairman



Er. RS Shah
Vice-Chairman



Er. YV Joshi
Secretary



Er. SM Baxi
Treasurer



Er. VB Harani
Jt. Secretary



Er. SP Trivedi
Jt. Secretary



Er. Parag Parmar
Member



Er. Umesh Parikh
Member



Er. Bharat Dalwadi
Member



Er. NC Solanki
Member



Er. PP Shah
Member



Er. Hemant Nashikkar
Member

ADVISORY COMMITTEE MEMBERS FOR 2024-25



Er. PA Shah



Er. SM Godkhindi



Er. JK Surti



Er. NV Lathia



Dr. AJ Chavda



Er. HD Joshi



Er. Gitesh Chitaliya



Er. Vrajesh Desai



Ms. Sangeeta S Godkhindi



Er. BP Sonii



Er. Bihag Majmudar



Er. Yatin Pathak

PATRONS



Er. PH Rana



Er. SM Takalkar



Er. GV Akre



Dr. Satish Chetwani



Er. NG Yadav



Er. YK Sharma

VOLUNTEERS

EDITORIAL BOARD

Er. Umesh Parikh
Er. SM Takalkar Er. PH Rana
Er. PA Shah Er. SM Godkhindi

OFFICE ADMINISTRATION COMMITTEE

Er. NC Solanki Er. SM Godkhindi Er. Hemant Nashikkar
Er. HD Joshi

CHAIRMAN'S DESK



Dear Readers,

The Annual General Meeting (AGM) of SPE(I) Vadodara Chapter was held in the Auditorium of Baroda High School, Alkapuri on 30 Jun 2024

After assuming the charge of the Chapter as a Chairman last year, this is my first AGM. Despite rain, the AGM was attended by about 100 members. I am very happy at the excellent arrangements made by Executive and Advisory committee members. The program had a good time management. The well-prepared Audio-visual saved lot of time. The presentation by **Er. RS Shah, Er. YV Joshi** and **Er. NG Yadav** were to the point and convincing.

On the top of everything, the members present in the house presented good sense of maturity. The open house discussions and decisions were well received by everyone.

The election for 4 members of Executive committee for the year 2024-27 was very nicely conducted by **Er. Tamhane** and his team. I congratulate the winners **Er. Parag Parmar, Er. Hemant Nashikkar, Er. Pradip Shah** and **Er. Natubhai Solanki**. We thank **Er. NG Yadav**, the outgoing Treasurer, who worked very hard for many years. Even as an ordinary member his contribution in the development of the Chapter was very big. This year the audited balance sheet was prepared in record time, thanks to him. There were 1 or 2 lectures that were arranged by SPE(I) in the last quarter, which were well attended. We request members to suggest good topics and good professionals to deliver the monthly lectures for the coming year. Members can also come forward to deliver lectures in their field of expertise. The system of remembering the members who have left for their heavenly abode during the year, has touched my heart.

Felicitations of members who have crossed the mark of 65 years of their lives is another landmark activity of the Chapter.

The anchoring by **Er. Parag Parmar** and **Er. Prakash Shah** was also very precise. The cultural quotes and shayaries by Er. Parag Parmar was very touching.

I was also very happy to find few young & energetic members attending the AGM. This included a member from Dhule (Maharashtra) **Er. (Dr.) Namra Joshi** who is a Professor of Electrical Engineering in the college. He said that he attends AGM every year.

The highlight of AGM was generous contribution to the building fund by the members present in the house. As much as Rs. 90,000 was donated by many members in a matter of 5 minutes. I am sure, the members who could not attend will also follow this trend and contribute their might.

One more landmark activity followed the AGM. On **01 Jul 2024** an agreement was signed by us for the acquisition of new premises in Monalisa Business Centre, Manjalpur, a prime location in Vadodara city.

At this juncture, I request all the members to rope in new young members and strengthen the structure of the Chapter. This is because young generation is equipped with new technology and bigger outreach.

My Best Wishes to all the readers.

Er. Mohan R Tilwali



EDITOR'S DESK



Dear Readers

This summer, we all experienced tough heat waves with soaring temperature outside. The increased heat waves and delayed monsoon processes

are largely due to the warming of earth surface which is mainly attributed to increased Green House Gas (GHG) Emission by human beings. The key GHGs are carbon dioxide, methane and nitrous oxide—are now at higher levels as compared to any past period. India's average temperature has increased by around 0.7°C during 1901–2018. It is projected that by the end of the twenty-first century or little earlier, average temperature over India to rise by approximately 4.4°C.

The issue of climate change is debated a lot and it's now high time to act over it. The United Nations Framework Convention on Climate Change (UNFCCC) has defined "climate change" as a change in climate attributed directly or indirectly to human activity that alters the composition of global atmosphere.

Major characteristics of climate change include rise in average global temperature, Glacier melting, changes in precipitation, increase in ocean temperature leading to sea level rise. The efforts needed to address climate change includes mitigating greenhouse gas (GHG) emissions. It is also true that 1 ton air-condition M/c, if operated for 8 Hours a day, emits 2 tons of CO₂ in a year and in order to balance this carbon footprint, we need to plant two trees invariably.

India is the world's third-largest emitter of GHGs after China and USA and has initiated several climate-friendly measures, particularly in the area of renewable energy. As per updated Nationally Determined Contributions (NDC), the target to reduce emission intensity to 45% by 2030 from 2005.

KEYNOTE ADDRESS level and the target on cumulative electric power installed capacity

from non-fossil fuel-based energy resources which has been enhanced to 50% by 2030.

The electricity sector is major contributor in GH Emission. In our country, 76 % Electricity is generated from conventional sources and it shares more than 75% in greenhouse gas emission. Coal based power generation must drop by 13% every year until 2030 to achieve the Paris Agreement's goal of keeping global warming to 1.5°. Now if we switch to green energy, we extend support to protect the climate and at the same time mitigate the cost of electricity. In other words, this is a win-win situation for all stake holders and as a matter of fact, India has gradually increased its RE generation to 20.70% of its total electricity requirement in FY 2024 as compared to 12.53% in previous year.

Now, an idea needs to be transformed into a movement. RE sources have been embraced as the fastest growing source of energy. Technology in RE space has been progressing at a rapid pace and the development of technology is addressing critical challenges associated with RE sector.

Some of the key measures like waiver of ISTS charges for Wind & Solar projects, declaration of RPO trajectory up to 2029-30, Laying of new transmission lines and creating new s/s capacity under the Green Energy Corridor Scheme for evacuation of renewable power, PM-KUSUM, PM-Surya-Ghar, Standard Bidding Guidelines for TBCB process for procurement of Power from Grid Connected Solar PV and Wind Projects and Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022 are prevailing to encourage renewable power in KEYNOTE ADDRESS the country so as to cope up with the goal of increasing share of RE capacity to 500 GW by 2030.

This framework is also aimed to ensure energy security which will not only negate country's carbon footprints but also contribute to the society through supply of renewable power to consumers at competitive rate pan India.

(Contd. on page 3)



CHAPTER'S ACTIVITIES

- **On 25-26 Apr 2024**, the **Chapter**, jointly with **CBI&P & ERDA** organised a **2-Day Workshop** on **“Partial Discharge Monitoring for Power Transformers, Gas Insulated Switchgear, Cable and Rotating Machines”**.

- **On 18 May 2024**, **Chapter** organized lecture on **“Electrical Vehicle – Motors & Controllers”** at Vasvik Auditorium. The speaker was **Er. (Dr.) Rital Gajjar**, Associate Professor & Head (EE Deptt.), Parul Institute of Technology.

Dr. Gajjar initiated her talk with types of electric vehicles used in country and abroad. They are Petrol driven, EV driven by Electricity (DC) and Hybrid Vehicle - PEV. Generally, vehicles are 2, 3 & and 4-wheelers. She also covered the following in her talk.

Characteristics of EV are High instant power and high-power density, High torque at low speeds for starting and climbing, as well as high power at high speed for cruising. Very wide speed ranges are available in the EV including constant torque and constant power regions. Further, she informed that High efficiency over wide speed and torque range, High efficiency for regenerative braking, High reliability and robustness for various vehicle operating conditions are additional characteristics. The cost of EV is reasonable on long run.

The electrical motors used in EV are DC Series, Brushless DC Motor, Permanent Magnet Synchronous Motor (PMSM), Three Phase AC Induction Motors, Switched Reluctance Motors (SRM) and Synchronous Reluctance Motor (SynRM)

The EV Motors runs basically either on AC or DC Supply. The AC Voltage is either 230V or 415V. The DC Voltage are 12, 24, 36, 48, 60, 72 V. It is possible to control Speed, Acceleration and torque of these motors.

About 150 members from SPE (I) Vadodara Chapter and IE (I) Vadodara Local Centre participated in this Lecture. Members appreciated the talk which was followed by very good question – answer session.

The Welcome address was delivered by **Er. MR Tilwalli**, Chairman, SPE(I) Vadodara and **Dr. Satish Joshi**, Chairman, IE(I), Vadodara.

Vote of thanks was presented by **Er. VB Harani**, Jt. Secretary, SPE(I) Vadodara.

The entire event was anchored by **Er. PA Shah**, AC member, SPE(I) Vadodara

- **On 05 Jun 2024**, the **Chapter**, jointly with **IE(I)**, Vadodara organised an evening lecture on **“Water Management”** on the occasion of **“World Environment Day”**. The speaker was **Er. Vivek R Kapadia**, VP, Dholera SIR.
- **On 30 Jun 2024**, **28th AGM** of the **Chapter** was held at Baroda High School, Alkapuri. The report of the same is brought out in this issue.

Er. YV Joshi
Secretary

(from page 2) EDITOR'S DESK

Lastly, I warmly welcome to all newly elected EC members and nominated AC members and expects their constructive role in making our society as a flagship chapter. I also appreciate selfless services given to SPE(I) Vadodara by **Er. NG Yadav** for all these years.

Warm wishes for safe and happy monsoon to all members and their families.

Er. Umesh Parikh

LINE INSULATOR STRING FLASH OVER INDICATOR CUM REPORTER

GENERAL

Line insulator string flash over cum reporter provides fast and exact information of the flash over of transmission line insulator string, information contains name of line and location number by SMS to concerned control center and concerned controlling engineers and mechanical flag at the location.

It is made up of three parts, a) line insulator flash over sensor b) mechanical flag unit c) SMS reporting module.

Overhead transmission lines transport huge power from generation to the load center (like city, industrial hub, commercial, agriculture and domestic consumers). The transmission lines are hundreds of kilometers in length and run through forest, desert, hills, mountains, sea and river.

Insulators are key elements of transmission lines. It keeps the live conductor away from the grounded steel structure of tower/support so that the power can be transported to the decided path. Insulators may weaken (electrically and mechanically) by manufacturing defects, hair cracks, air pockets, surface degradation due to dust, dirt, smoke, fog, rain, ice and ageing.

Such weak insulators are prone to flashover, and it interrupts the power supply. It is required to attend the same as early as possible. But this is time consuming and requires more manpower to find the exact location of the fault due to long length, difficult run of way. It affects the availability of power, indirectly loss of revenue of the operator company and the nation too. It also affects quality of life.

This invention is quite useful to detect the flashover insulator string and report the same in SMS format to the concerned controlling center and concerned engineers for quick actions to attend the same. Provision of a mechanical flag indication is also there for counter checks of the location.

Whenever insulator string flashover, it senses by a flashover sensor and its analog output (current) is fed to flag unit to operate. Flag units operate by the power of analog input. This mechanical flag unit displays RED flag that can be visualized from the ground. It also sends a signal and activates the SMS reporting unit to convey a message containing the name of a line and location number to the programmed cell phone numbers.

Er. BK Rakholia
LM, SPE(I) VC

NEW LIFE MEMBERS/YEARLY MEMBERS

GR No.	Name	Grade	GR No.	Name	Grade
2446	Vijaykumar K Upadhyay	LF	2450	Jayesh J Makwana	LM
2447	Devpalsinh I Gohil	Year 24-25	2451	Pramodkumar M Shukla	LM
2448	Mukeshkumar M Shah	LM	2452	Bankim P Soni	LM
2449	Chirag Y Shah	LM			

PROCEEDINGS OF 27TH ANNUAL GENERAL MEETING HELD ON 30 JUN 2024

As decided, the **28th AGM** of the SPE(I) Vadodara Chapter was organized on **30 Jun 2024** at **10.00** hrs. at Baroda High School, Opp: Express Hotel Petrol Pump Lane, RC Dutt Road, Alkapuri, Vadodara - 390 007.

The following business was transacted.

Due to the lack of quorum at the scheduled time, the members present left the venue and reassembled at the same place after half an hour and carried on the AGM business.

The members present in the house observed 1-minute silence to pay their respect to the members who left for their heavenly abode during the year. It is heartrending to note that during this year, SPE (I), Vadodara Chapter has lost 10 members who departed for their heavenly abode. They are:

1. Er. CK Patel
2. Er. RR Vishwakarma
3. Er. KB Parikh
4. Er. SS Takalkar
5. Er. AC Takalkar
6. Er. JB Shah
7. Er. N Dinker (Founder Chairman)
8. Er. RA Surati
9. Er. PH Munshi
10. Er. SH Vora

We respect their valuable support and preserve their memories.

Welcome address by the Vice-Chairman

The Vice-Chairman of the Vadodara Chapter, **Er. RS Shah** gave a Welcome address. He highlighted the progress of the Chapter during the year. He pointed out that last year was a landmark year for our society. We have made surplus find of Rs. 4.69 Lakh. Secondly, we are going to purchase new premises of our chapter. The sale deed will be signed on 1st July 2024. This is the biggest achievement for the entire Society of Power Engineers(I). The new premises is well located with all the

amenities like independent washrooms, security, ample parking and meeting foyer.

He stressed the need upon requirement of financial help from our members and well-wishers in the form of donation or advance. He informed that the Avishkar complex office was also purchased with the kind help of members and well-wishers, wherein all have extended their support with wholeheartedly. He further expressed gratitude for the efforts and support by members of EC, AC and Patron members and society Life members .

Address by Chairman:

The Chairman of the Vadodara Chapter, **Er. MR Tilwalli** welcomed all the members and gave brief of activities of SPE(I) Vadodara in general. He said that this is his first AGM after assuming the office of Chairman. He said that the progress of the Chapter is very good. He apprised the house of the decision of purchase of new premises in a short time. He appealed to all the members and well-wishers to be kind in giving financial support for the new premises. The efforts put by all the members of EC AC with guidance of Patron members, SPE(I) could do successful Conference on Civil Engineering in Power Sector in Dec-2023 along with other 13 such programs and lectures. Chapter has more of such programs in pipeline which is a good sign of progress.

The agenda of AGM was pursued as follows.

1. Confirmation of Minutes of last AGM held on 16 Jul 2023.

Minutes of last AGM was already circulated through SPE NEWSLETTER Oct-2023 issue. However, Secretary of the Chapter, **Er. YV Joshi** read out the minutes of last AGM held on **16 Jul 2023**. The minutes were approved by the house as presented.

2. Presentation of Secretary's report

Along with 28th AGM Notice, Secretary's Report for 2023-24 was already circulated. However, Secretary of the Chapter, **Er. YV Joshi** presented the Secretary's Report for the year 2023-24.

Some of the main points of the report are as under.

- A)** During this year, the Chapter has made reasonable progress. Between two AGMs total **34** new members are registered which includes **33** Life Members.
- B)** Thus, total registered members of SPE (I) Vadodara Chapter as on 30 Jun 2024 are **2451**- out of which there are **642** Life Members.
- C)** It is my privilege to present before you that our Chapter has organized 10 monthly lectures and two 2-Day Conferences during the year.
- D)** **On 21 Mar 2024**, the **Chapter** convened a **Special General Meeting** at the Auditorium of the IE(I), Vadodara to transact following business:

- (i) To discuss and decide/resolve About 123 members of Society of Power Engineers (India), Vadodara Chapter were present in the Meeting. The special meeting was held for "Acquisition of new premises for the office of the Chapter of SPE(I) Vadodara".
- (ii) To discuss and decide/resolve the matter of relocating the office premises.

The proposal was accepted by the house.

It is therefore resolved that,

The members present in the special meeting held on 21 Mar 2024 noted the agenda point placed before them and resolved to purchase new premises in Monalisa

Business Centre having approximately area of 2 x 42.85 Sq. Mt. (85.7 Sq. Mt.). The members present also empowered the Chairman, Vice-Chairman, Secretary, Joint-Secretaries, Treasurer, Er. PH Rana, Er. SM Takalkar to negotiate the rates and finalize the deal and also avail loan from HDFC Bank or any other reputed Bank / Financial Institution and sign all the documents, on behalf of the SPE(I) Vadodara Chapter.

- E)** Revision in fee structure:

A revised fee structure was presented before the house. **Er. YV Joshi** informed that this revised structure was discussed and deliberated / modified in the Executive Committee meeting and approved. House also approved the proposal with some suggestions. Accordingly, the same is indicated below.

Grade	Local charge	Proposed increase	Total Local charges
Member	200	300	500
Associate member	200	300	500
Life member	750		
Gold		1,150	1,900
Platinum		3,650	4,400
Fellow/ Life Fellow member	750	1,250	2,000

Note: It is also proposed to validate the Life membership for 10 years for Gold and 15 years for Platinum category respectively.

Institutional membership

Academic: 15 years & Rs. 25,000/-
(free members 2)

Organisational (up to 100 emp): 15 years &
Rs. 50,000/- (free members 3)

Organisational (more than 100 emp):
15 years & Rs. 1,00,000/- (free members 5)

Grade transfer: Difference to be paid.

Changes w.e.f. 01 Jul 2024

Other than above all the charges remain unchanged.

3. Presentation of Accounts of the Chapter for the year 2022-23

Along with 28th AGM Notice, Accounts of the Chapter for the FY 2023-24 was already circulated. However, the Treasurer of the Chapter, **Er. NG Yadav** presented the same in brief. The accounts were approved by the AGM unanimously.

4. Presentation of Budget of the Chapter for the year 2024-25.

The annual Budget for 2024-25 was circulated along with AGM notice. The Treasurer of the Chapter. However, **Er. NG Yadav** presented the same. The budget was approved unanimously.

5. Proposal for the approval of the name of Auditor for the year 2024-25.

The Treasurer **Er. NG Yadav** proposed the name of Shri Niraj Mujmundar & Associates Chartered Accountants as an Auditor for the financial year 2024-25. The house approved the proposal unanimously.

6. Open house Session

a. Er. (Dr.) Namra Joshi, proposed to create U tube channel for SPE activities and the past lectures would be made available to members. For creating U tube channel, it is required to have 1,000+ subscribers. Also, he proposed to hold Power Hackathon for the students near Vadodara.

b. Er. AN Makwana also suggested to go for U tube channel and Zoom to view

past lectures/ programs from home. **Er. YV Joshi** informed that this exercise was carried out in past and since it is expensive, it was not approved in respective EC AC meetings,

c. Er. YK Sharma, suggested that SPE should have presence in industry and new young engineers invited to become members of SPE.

d. Mr & Mrs. Kasture from MS University of Baroda assured to support in technical aspects. Also, the lectures and presentation recording to be done and archives to be made available on SPE website.

e. Er. Apurva Vora suggested that students from Engineering to be updated for the programs of SPE.

7. Programme of Felicitation of Life Members of SPE (I) Vadodara who completed 65 years of age on 30th June 2024, was held. The following Engineers were felicitated.

1. **Er. NV Lathia**
2. **Er. CM patel**
3. **Er. HM Dabla**
4. **Er. JK Surti**
5. **Er. DJ Vora**
6. **Er. JD Darji**
7. **Er. NC Moteria**
8. **Er. Amjad Husain**
9. **Er. AP Vora**
10. **Er. MB Bhatt**
11. **Er. RC Shah**
12. **Er. KR Jani**
13. **Er. DH Chaudhari**

8. Election of Executive Committee Members:

Er. PN Shah, DE, MGVCL, who was appointed as Polling & Returning Officer made all arrangements to conduct the Election for 4 posts of Executive members for the years 2024-2027. However, due to

some urgent work he nominated **Er. JD Tamhane** to conduct the election activity with the assistance of **Er. PA Shah, Er. Devgirkar, Er. SM Godkhindi and Er. SG Prasad**

Er. JD Tamhane read out the proceedings of the election as under.

- Against 4 (four) posts, following 5 (five) nomination forms were received as candidate for EC Member:
 - (1) **Er. Hemant Nashikkar**
 - (2) **Er. Natubhai C Solanki**
 - (3) **Er. NG Yadav**
 - (4) **Er. Parag Parmar**
 - (5) **Er. PP Shah**
- **Er JD Tamhane** and team nicely conducted the election process.
- On the basis of counting, following 4 (four) members are declared Elected by election officer.
 - (1) **Er. Hemant Nashikkar**
 - (2) **Er. Natubhai C Solanki**
 - (3) **Er. PP Shah**
 - (4) **Er. Parag Parmar**

Newly elected four EC Members as above were felicitated by the Chairman **Er. MR Tilwalli**. He also expressed his gratitude towards efforts by **Er. PN Shah, Er. JD Tamhane, Er. PA Shah, Er. Devgirkar, Er. SM Godkhindi and Er. SG Prasad** for their services in the process of election for many years.

Er. NG Yadav was also felicitated for his services to the Chapter.

9. **Vote of Thanks:**

On behalf of SPE (I), **Er. VB Harani**, Jt. Secretary offered a **Vote of Thanks** to all members, volunteers, and persons who have worked / assisted directly and indirectly for great success of the AGM. He thanked the donors, speakers, all EC and AC and patron members for their valuable support in the activities of SPE (I) Vadodara

The AGM ended after recitation of the National Anthem.

10. An appeal was made to the members present in the AGM for their kind financial support for the acquisition of new premises at Monalisa Business Center, Vadodara. 15 members present in the house spontaneously responded by declaring their contribution totaling to about 90000/- as donation. SPE is thankful to these members.

11. **Anchoring:**

The entire event was anchored by **Er. PA Shah**, LM & Advisory Committee Member, **Er. Parag Parmar**, LM & Executive Committee.

The AGM ended with a delicious lunch.

SWEET MOMENTS OF 28TH AGM



BEGINNING OF EVENT

DIGNITARIES ON DIAS

From L to R

Er. NG Yadav, Treasurer
Er. YV Joshi, Secretary
Er. MR Tilwalli, Chairman
Er. RS Shah, Vice-Chairman
Er. VB Harani, Jt. Secretary

TRIBUTE TO FOUNDER CHAIRMAN LATE ER. N DINKER



Er. GV Akre, past Chairman



Er. SM Takalkar, Patron

WELCOME ADDRESS



Er. RS Shah, Vice-Chairman

CHAIRMAN'S ADDRESS



Er. MR Tilwalli, Chairman

SECRETARY'S REPORT



Er. YV Joshi, Secretary

ANNUAL ACCOUNTS & BUDGET



Er. NG Yadav, Treasurer

FELICITATION OF SENIOR MEMBERS (65Years)



Er. JK Surti felicitated with Shawl
by **Er. RS Shah**, Vice-Chairman



Er. NV Lathia felicitated with Shawl
by **Er. VB Harani**, Jt. Secretary



Er. JD Darji felicitated with Shawl
by **Er. RS Shah**, Vice-Chairman



Er. NC Moteria felicitated with Shawl
by **Er. MR Tilwalli**, Chairman



Er. Apurva Vora felicitated with Shawl
by **Er. YV Joshi**, Secretary



Er. MB Bhatt felicitated with Shawl
by **Er. NG Yadav**, Treasurer



Er. KR Jani felicitated with Shawl
by **Er. MR Tilwalli**, Chairman

OPEN HOUSE SESSION
SUGGESTION BY MEMBERS



Er.(Dr.) Namra Joshi(Dhule)



Er. AN Makwana, former Treasurer,
sitting on chair



Er. YK Sharma,
former Jt. Secretary



Er. RM Panchal



Secretary Conducting
Open House Session

EVENT ANCHORING



Er. Parag Parmar



Er. PA Shah

AUGUST GATHERING



CELEBRATE ELECTRICAL SAFETY

Observing **National Electrical Safety Month** was started in 2013. This has kept evolving over the years ever since. Electricity is part of our everyday life and although it brings many positives, there is also a cautionary tale within it.

This month is important to recognize because it brings awareness of the dangers of using electricity in our daily lives. When electrical problems are left unattended, they may lead to fire.

June is a very important month when it comes to discussing electricity and the dangers it can bring if not monitored. However, to protect ourselves and our loved ones along with our property, we should practice safety and aware-

ness each & every month of the year.

Remember to always follow and implement proper safety techniques when it comes to deal with electricity in your home. If you are unsure of how to proceed, be sure to call an expert electrician to handle it. Here are some Tips/Guidelines.

Tip 1: Cord and Outlet Safety

Cords and outlets are everywhere in our surroundings—in our homes, at the office, and even at the coffee shop. Since they are so small and frequently used, we can sometimes forget to be careful when using them.

With cords, if you notice they are damaged in anyway, do not use them and replace them

immediately. If the cord happens to be an integral part of your home, call an electrician to have it checked out and replaced professionally.

If you frequently use extension cords, do not run them constantly because, contrary to popular belief, they are actually meant for temporary use only. Be sure to also not run them under carpets or through doorways, as someone may trip or close the door on them, causing damage.

With outlets, if they feel warm to the touch, or you are noticing that fuses are blowing often or MCB/LCB is tripping often, don't wait; instead, call your local electrician immediately. Likewise, if you have circuits that are frequently tripping or lights flickering, these are also signs of electrical hazards in offing.

Tip 2: Appliances Awareness

It's no secret that appliances are everywhere in our surroundings, but just because they are common, it doesn't mean they can't have electrical problems. For instance, when you are through using an appliance or tool, always unplug it.

Leaving equipment that requires a large amount of power plugged, it can sometimes cause the circuit to trip. When connecting countertop appliances, make sure they are connected to the ground fault circuit interrupter (GFCI), which protects everything connected to that circuit.

Another common appliance that should be frequently checked for health and safety reasons is your smoke detector (mostly installed in offices, Malls and public places. Many other professionals recommend testing it once a month to make sure it is in operating mode.

It is also a good idea to test it twice a year by using a lit cotton string or matchstick to determine, according to the sound, whether the batteries need to be replaced.

Tip 3: Safety of the Workforce

Be mindful of electrical hazards beyond your home. If you or someone you know works closely with electricity, there are a few safety tips to keep in mind. First, before beginning work on any job site, thoroughly examine it to determine any potential hazards and establish a plan for the safety of all those working on-site.

Next, be sure to use your personal protective equipment (PPE) when needed, and have it checked daily for any damage or defects before using it. If working with electrically charged equipment, be sure you are wearing the proper cover-up gear to prevent yourself or grounded surfaces from coming into contact with the equipment.

Lastly, never presume that objects are deactivated or unplugged. Always test and ground the object to make certain it is safe to use before beginning any work.

Tip 4: Keep Children Safe & Informed

It's no secret that kids are curious creatures who want to grab and touch everything in sight. As a parent or caretaker, it is extremely important to not only take precautionary safety steps, but also to inform children of any age who can understand what to not touch.

The first step you can take is to install electrical outlet covers. This will prevent your child from trying to jam their fingers or an object inside of them, which can cause electrocution, severe bodily damage, and significant damage to your property.

The best thing is to teach your children about electrical safety. Instruct them not to touch any outlets, wires or appliances and to ask an adult, if they need to use an electronic device. For children a bit older, make sure they understand the importance of not touching any electronics with wet hands. If you have a child who enjoys playing outside, be sure to tell them about keeping their kites, balloons, flying toys or anything else that can become airborne away from power lines.

**IT IS BETTER TO BE SAFE THAN
TO BE SORRY**

MEMBERS IN NEWS



L to R **Er. BN Raval**, **Er. Keyur Nanavati**, **Er.(Dr.) Shivani Sharma**, **Er. PA Shah**

Members of SPE(I) Vadodara Chapter contributed their Technical Papers in **2-Day National Seminar** on “**Electrical and Fire Accidents in Power Industry – Causes and Prevention**” Organized by **Central Board of Irrigation and Power**, New Delhi in Association with **CIGRE India** on **4-5 July 2024** at New Delhi. A total of 14 papers were presented in the National Seminar.

Er. BN Raval – Curb of Accidents in Gujarat.

Er. Keyur Nanavati – Electrical Hazards Awareness

Er. (Dr.) Shivani Sharma – Morden Trends of Electrical Arc Flash Hazard Analysis and its Mitigation.

Er. PA Shah – Case studies of Accidents in Utilities.

Er. (Ms) Binal Modi – Prevention of Power Transformer

શ્રદ્ધાંજલિ



એન્જિ. પ્રદીપ એચ. મુન્શી, નિવૃત્ત અધિક મુખ્ય ઇજનેર (વિતરણ), દક્ષિણ ગુજરાત વિજ કંપની લિ. અને **આજીવન સભ્ય**, સોસાયટી ઓફ પાવર એન્જિનિયર્સ (આઇ) **વડોદરા ચેપ્ટર**, નું તા. **૦૫-૦૪-૨૦૨૪** ના રોજ દુઃખદ અવસાન થયું છે. સદગત એક પ્રતિભાશાળી ઇજનેર અને કુશળ નેતા હતા. ઇજનેરો ના પ્રાણપ્રશ્નો અને તેમને થતા અન્યાય સામે વિદ્યુત બોર્ડ ના વહિવટી તંત્ર સમક્ષ હિંમત પૂર્વક રજૂઆતો કરતા વહિવટી તંત્રને પણ સકારાત્મક અભિગમ દાખવવાની ફરજ પડતી હતી.

એન્જિ. પ્રદીપ એચ. મુન્શી એ ઇજનેરોના હક્ક માટે લીધેલ પગલાઓ:

૧૯૭૮ માં જ્યારે ડેટા એસોસિએશન ની ચૂંટણીઓ યોજાઈ ત્યારે એક તેજ તરવરાટ ભર્યા યુવાન એન્જિ. પ્રદીપ મુન્શી એસોસિએશન ની ધુરા સંભાળવા આગળ આવ્યા. ડેટા એસોસિએશન તે વખતે એક કટોકટી માંથી પસાર થઈ રહ્યું હતું જે ઇજનેરોએ ૧૯૬૯ માં એસોસિએશન ની સ્થાપના કરી હતી તેઓની સામે સામાન્ય સભ્યોમાં ભારે અસંતોષ હતો. ખાસ તો ડો. કુરિયન એવોર્ડ ના કારણે જીઇબી ઇજનેરો ને એમના પગાર ધોરણમાં અન્યાય થયો હોવાની પ્રબળ લાગણી હતી તે સંજોગોમાં ભાઈ એન્જિ. મુન્શી અને તેમની ટીમે આગળ આવી એસોસિએશન ની બાગડોર સંભાળી હતી. યુવાન ઇજનેરો માં વ્યાપેલી હતાશામાં ને રોષને વાચા આપવા માટે લડાયક પગલાંઓ લેવાની જરૂરિયાત હતી. શ્રી અરવિંદભાઈ બુચ, પ્રમુખશ્રી ડેટા એસોસિએશન, ના માર્ગદર્શન હેઠળ એસોસિએશન નો પ્રથમ રોડ શો સરદાર ભવનથી વિદ્યુત ભવન સુધી યોજવામાં આવ્યો હતો અને તેને પગલે ડિગ્રી ઇજનેરો અને ડિપ્લોમા ઇજનેરો ના પ્રમોશન બાબતનું સમાધાન રાજ્ય સરકારના હસ્તક્ષેપથી થયું હતું. ત્યાર પછી ઇજનેરો ના પગાર ધોરણો બાબત સૌ પ્રથમવાર સીધી વાટાઘાટોથી તારીખ ૦૭-૦૩-૧૯૮૨ ના એગ્રીમેન્ટથી ઇજનેરોનું પગાર ધોરણ મેળવવામાં એન્જિ. પ્રદીપ મુન્શી નો સિંહ ફાળો હતો. આજ કરાર માં ફિલ્ડ એલાઉન્સનું બીજ રોપાયું હતું અને દસ વર્ષની કાનૂની લડાઈ પછી ૧૯૯૧ માં ચુકાદો આવતા ઇજનેરોને ફિલ્ડ એલાઉન્સ નો લાભ મળ્યો હતો જેના માટે એન્જિ. મુન્શી નું યોગદાન હંમેશા યાદ રહેશે.

ઇજનેરોના પ્રશ્નો હિંમતપૂર્વક મેનેજમેન્ટ સમક્ષ રજૂ કરી તેને ઉકેલવા માટે તેમના સઘન પ્રયાસોથી ઇજનેરો નો અવાજ બુલંદ કર્યો હતો. એન્જિ. મુન્શી પ્રતિભાવાન અને ન્યાયપ્રિય ઇજનેર તરીકે ગુજરાત વિદ્યુત બોર્ડ ના ઇજનેરોમાં પ્રિય હતા.

જુનિયર એન્જિનિયર થી ચીફ એન્જિનિયર સુધીના એક એસોસિએશન માટે તેમના પ્રયાસોને સૌનો સાથ મળતા સફળતા મળી હતી. આમ ઇજનેરોની એકતા નું શ્રેય એન્જિ. મુન્શી ને ફાળો જાય છે.

કુશળ સંગઠક, વ્યુહ રચનાકાર, સફળ પ્રશાસક અને સાચા અર્થ માં એક પાવર એન્જિનિયર તરીકે એન્જિ.

પ્રદીપ મુન્શી ગુજરાત ઉર્જા વિકાસ નિગમ લિમિટેડ તેમજ તેની સંલગ્ન કંપની ના ઇજનેરોને હંમેશા યાદ રહેશે.

ઈશ્વર તેમના આત્મા ને સદગતિ આપે અને કુટુંબીજનો ને આવી પડેલ આઘાત સહન કરવાની શક્તિ આપે તેવી પરમ કૃપાળુ પરમાત્માને પ્રાર્થના. ઐ શાંતિ! શાંતિ! શાંતિ!



એન્જિ. સુધાકર એચ. વોરા, નિવૃત્ત અધિક્ષક ઇજનેર(એસ.પી.), ગુજરાત વિદ્યુત બોર્ડ અને આજીવન સભ્ય, સોસાયટી ઓફ પાવર એન્જિનિયર્સ (આઇ) વડોદરા ચેપ્ટર, નું તા. ૦૬-૦૬-૨૦૨૪ ના રોજ દુઃખદ અવસાન થયું છે.

એન્જિ. સુધાકર સાલસ, સંવેદનશીલ અને પરગજુ વ્યક્તિ હતા. સંગીત પ્રેમી, શાસ્ત્રીય રાગોની ઉંડી સમજ અને સંગીતની સારવાર ના જ્ઞાતા હતા.

ઈશ્વર તેમના પવિત્ર આત્માને સદગતિ આપે અને કુટુંબીજનો ને આવી પડેલ આઘાત સહન કરવાની શક્તિ આપે તેવી પરમ કૃપાળુ પરમાત્માને પ્રાર્થના. ઐ શાંતિ! શાંતિ! શાંતિ!



Er. Anantray V Mehta, Retd. Chief Engineer (LD), State Load Despatch Centre, GEB, Jambuva and **Life Member** of the Society of Power Engineers (I) Vadodara **Chapter** left for his heavenly abode on **16 Jun 2024**.

He was a gentleman and a down-to-earth person. A noble, honest and true engineer.

May God give peace to the departed soul and give strength to his family members to bear the impact.



Disclaimer

The views expressed in this newsletter are solely of the author and do not necessarily reflect the views of the editorial committee and Society of Power Engineers (I), Vadodara