

SPE NEWS LETTER

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THE SOCIETY OF POWER ENGINEERS (INDIA)

VADODARA CHAPTER (ESTD. 1996)

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Diwali

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Year



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Er. RS Shah
Member



Er. VJ Desai
Member



Er. NC Solanki
Member



Er. KN Velani
Member



Er. SP Trivedi
Member

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Er. VB Harani
Er. PA Shah

Er. MG Mehta
Er. Nihar Raj
Er. DH Chaudhari
Er. JK Surti

Er. DC Mehta
Er. DV Patel
Er. YV Joshi
Er. PM Mohite

Er. Shivani Sharma
Er. Hetal Prajapati
Er. HM Solanki

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Er. KN Velani

Er. MG Mehta

Er. AN Makwana

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OFFICE ADMINISTRATION COMMITTEE

Er. SM Godkhindi

Er. GP Shukla

Er. NG Yadav

Er. NC Solanki

Cover Page Designed By

Er. KN Velani

FROM THE CHAIRMAN'S DESK



I am happy to present this issue of SPE News Letter after our 23rd AGM held on 25th Aug 2019. This year also election was held in very peaceful and healthy atmosphere for electing new members on Executive

Committee and I am pleased to note that two new and younger engineers were elected. We are now entering the new era of digital age and there was lot of brainstorming during open house to adopt this technology for our functioning. The feedback and ideas received during open house are being incorporated for setting our goals for immediate future. We have included good number of techno savvy engineers this time in Advisory Committee from industries and academy in addition to few such members already available in Executive Committee to make this transition effective.

SPE(I) Vadodara have around 2200 members on roll as of now, but most of them are not able to involve in our programs due to many reasons like pre-occupation, transfers, employment in other far away cities, retirement, old age etc. It is required now to enroll new members so that more active participation will be possible in functioning of SPE. Therefore, special drive is planned this year for enrolling new members, and I appeal the readers to get involved and inspire engineering students, faculties, working engineers in utilities and industry to become members.

We are celebrating Silver Jubilee in the year 2021 and various programs are being planned for making this event memorable for years to come. We invite suggestions and ideas from all the members which will help us in properly organizing different events during this celebration that will spread over three days or more.

The goals specifically undertaken by our chapter

to be achieved before silver jubilee are:

- ❖ Membership base of 2500.
- ❖ Complete digitalization-no papers by 2021. Online membership application and fees payments.
- ❖ Generate additional corpus fund of Rs.5.0 lac & further fund of Rs.5.0 lac for silver jubilee celebration.
- ❖ Increase Industry and academy participation.

While working with above specific goals we must consider the developments taking place globally in engineering field, which requires entity like us to get involved. Mainly there are challenges being faced due to the climate change. The challenges have opened new initiatives such as Digital India, Smart cities, Smart buildings, Renewable energy, electrical vehicles (EV) and many other innovations in energy sector. Thus, vast area of the engineering is opened for us now to work with where proper training and skill building is the need of the time and SPE must play major role there.

SPE(I), Vadodara is well established entity now, and it is imperative that we have to take new initiatives in our scope to keep SPE moving always and attract the engineering community of future. All of us have a responsibility individually and collectively to make it happen.

I invite every member to send their recommendations and suggestions for betterment of our future working that will take SPE Vadodara Chapter to the new height. We will see to it that suggestions which are practicable shall be implemented with the due acknowledgement to the member concerned.

I wish all the members and readers a very **Happy Diwali** and the **New Year** beginning there after

Thanking you,

GV Akre

FROM EDITOR'S DESK



Dear Reader,

The key question for all is whether India can manage a rapid expansion of its economy and provide the electricity needed to make that happen, while at the same time doing it in a manner that makes both environmental and commercial sense. Here, the focus has been on India's extremely ambitious renewable energy targets and what they mean for the nation's coal-fired generation fleet, which still accounts for the bulk of India's electricity needs. While most observers recognize that renewables are going to progressively reduce coal's share of Indian electricity generation, most still expect that the absolute volume of coal used in India will continue to rise materially as the economy expands.

India's draft national energy policy looks at the country's energy needs through 2040, based on a report and road map released in July 2017 by NITI AAYOG, the Indian government's in-house think tank. That report focuses on renewable energy; drastic reductions in energy intensity; a doubling of per capita energy consumption and a tripling of per capita electricity consumption; 100% electrification; clean-cooking coverage by 2022; and reduced fossil fuel imports. The draft policy stresses efficiency, technology, regulatory oversight, effective engagements with overseas investors, air quality considerations, and human resource development across the energy domain.

India's draft 10-year National Electricity Plan has thermal power's share of total generation capacity falling from 67% as of March 2017 to 43% by March 2027. Renewable energy's share of installed capacity is forecast to rise from 18% in 2017 to 43% by 2027. This change will require India's grid transmission and distribution structure to not only have to deal with a significant increase in electricity demand in the coming decade, but will also have to accommodate greater distributed and renewable energy

generation plus smart-grid requirements.

With the expected doubling of electricity demand over the coming decade, India's transmission and distribution system will require significant expansion. A \$200bn investment program through 2030, would create the opportunity for India to establish an internationally connected smart grid capable of managing a doubling of power demand and incorporating much greater diversity in electricity generation, including distributed rooftop solar and battery storage. This would require India's distribution system reform program (Ujwal DISCOM Assurance Yojana, or UDAY) to be successfully carried through to completion, and in the process end the largely unfunded US\$10bn annual distribution company (DISCOM) electricity subsidy.

A very favourable assumption for the Indian Power Sector is that the Aggregate Technical and Commercial (AT&C) losses on the grid will decline from the unsustainably high and exceptionally costly level of 23.8% in FY2015 to a more manageable 13.8% in 2026/27. This estimated 1.0% annual reduction would represent a huge savings, but still leave Indian grid losses more than triple the level posted in Germany, the world's most efficient grid. With the combined benefits of the major UDAY DISCOM reform, reduced theft aided by the progressive introduction of smart meters, decoupling of agricultural and residential grid connectivity and the smart grid benefits of India's planned US\$20-25bn annual grid capital spend, this near halving of AT&C losses should be feasible.

We will be extremely happy to receive your views, opinions and suggestions. Please feel free to reach out to us.

Happy Reading !

AWADHESH KUMAR SINGH

Chapter's Activities



- ♦ **On 19 Jul 2019**, the Chapter organized **1-Day Seminar** on “**Futuristic Technology Research, Construction and Maintenance aspects of Power System**” at BVM Engineering College Auditorium, Vallabh Vidyanagar, Anand. Detailed report on the same is brought out in this issue.
- ♦ **On 25 Aug 2019, 23rd AGM** of the **Chapter** was held at Baroda High School, Alkapuri, Auditorium. Proceedings of the same is brought out in this issue.
- ♦ **On 27 Sep 2019, the Chapter** organized

a lecture on the topic of “**Secrets of Happiness**” in the Vasvik Auditorium, the IE(I), Vadodara. The speaker was **Er. Dhaval Dave**, Professor, Electrical Engineering Department, Parul University, Waghodia. He Covered following during his lecture.

The lecture mainly designed on the concept of happiness.

1. The Happiness is a journey and not a destination.
2. How to be Happy
3. Concept of Happiness
4. Different techniques related with happiness etc.

SM Godkhindi

MEMBER IN NEWS

Prof. Awadhesh Kumar Singh, Life Fellow and former Vice-Chairman of SPE(I) Vadodara visited Doha, Qatar in Middle East in Sep-2019 and conducted a 3-Day Training Programme on 'Steam Turbines' for the engineers of M/s QAPCO at Hotel Millennium, Doha. Qatar Petrochemical Company (QAPCO) is one of the world's largest and most successful producers of Low-Density Polyethylene (LDPE) – a basic plastic polymer that is derived from oil and natural gas. Besides engineers from Qatar, the programme was also attended by experts from Algeria, India and Pakistan. The programme was highly successful, and all the participants rated the faculty as 'EXCELLENT'.

Earlier in Feb-2019, he had conducted a 5-Day Training Programme on 'Steam Turbines' for the engineers of M/s EGA (Emirates Global Aluminium), the world's largest producer of premium aluminium at Abu-Dhabi in UAE. This programme was also highly applauded by the participants.

Congratulations and best wishes to Prof. AK Singh



Report of the Annual General Meeting held on 25 Aug 2019

The 23rd AGM of the SPE(I) Vadodara chapter was held at the Auditorium of Baroda High School, Alkapuri, Vadodara on 25Aug2019 at 16.00 hrs. The following business was transacted.

1. Due to the lack of quorum at the scheduled time, the members present left the house and re-assembled in the auditorium after half an hour and carried on the AGM business.
2. **Observing 1-minute silence to respect the departed souls of the Life Members.**

The members present in the house stood up from their seat and observed 1-minute silence to pay the respect to the members who left for their heavenly abode during the year (between last & this AGM). They were Er. RJ Saparia, Er. NP Fulzele, Er. KR Kumble, Er. RS Gandhi, Er.(Prof.) SA Kanitkar and Er. VB Kambad.

Er. SM Takalkar, Vice-Chairman could not attend the AGM due to unavoidable circumstances. He, through message, expressed regret. He wished all the success to the function and good wishes to all the members. The message of good wishes for the event sent by him, was read out by Er. Godkhindi

3. **Welcome address by the Chairman**

The Chairman of the Vadodara Chapter, Er. GV Akre gave a welcome address. He highlighted the progress of the Chapter during the year. He stressed the need for further efforts to make Vadodara Chapter a Brand in the Power Sector. He thanked all the members of Executive

Committee and Advisory Committee for their valuable support. He also stressed upon the celebration of Silver Jubilee year in 2021-22, and appealed the members for raising fund for the occasion.

4. **Reding out minutes of last the AGM held on 25 Jul 2018.**

Secretary of the Chapter, Er. RS Shahread out the minutes of last AGM held on 25Jul 2018at Vasvik Auditorium, the IE(I), Vadodara. The minutes were approved by the house without any change.

5. **Presentation of Secretary's report.**

Secretary of the Chapter, Er. RS Shah presented Secretary's Report. The report was accepted by the house without any change or observations.

6. **Presentation of Accounts of the chapter for the year 2018-19.**

The Treasurer of the Chapter, Er. SM Godkhindi presented the accounts of the Chapter for the financial year 2018-19. The accounts were approved by the AGM without any change.

7. **Presentation of Budget of the Chapter for the year 2019-20.**

The Treasurer Er. SM Godkhindi presented the budget of the Chapter for the financial year 2019-20. The budget was approved without any change.

8. **Proposal for the approval of the Auditor of the Chapter for the year 2019-20.**

The Treasurer Er. SM Godkhindi proposed the name of Shri Niraj

Mujmundar & Associates Chartered Accountants as Auditor of the Chapter for the financial year 2019-20. The house approved the proposal.

9. Felicitatation of Prof. Awadhesh Kumar Singh

Prof. AK Singh, Life Member, former Vice-Chairman and Editor-SPE NEWS Letter of SPE(I) Vadodara Chapter, was felicitated by Chairman Er. GVAkre by presenting a Citation, memento and bouquet for his contribution in the field of Power Engineering and Academics.

10. Felicitatation of Er. Hitesh R Karandikar

Er. Hitesh Karandikar, Director, ERDA, Vadoara and Life Member of SPE(I) Vadodara Chapter was felicitated by Chairman Er. GV Akre by presenting a Citation, memento and bouquet for his contribution in the field of Power Engineering.

11. Felicitatation of Er. Nihar S Raj

Er. Nihar Raj, Vice-President, ABB, Vadodara and Life Member of SPE(I) Vadodara Chapter was felicitated by Chairman Er. GV Akre by presenting a Citation, memento and bouquet for his contribution in the field of Power Engineering.

All the three citations were read out by **Er. MG Mehta**

12. Felicitatation of Members who have completed 65 years of age.

The members of the Chapter who have completed their 65 years of life, were felicitated by presenting a “Shawl” and bouquet. 18Life Members present were felicitated in rotation by Er. GV Akre, Er.

RS Shah, Er. SM Godkhindi, Prof. AKSingh, Er. Nihar Raj and Er. HR Karandikar. List of the members who were felicitated is attached.

List of members who were felicitated:

Er. BN Raval Er. NG Yadav

Er. VI Trivedi Er. JD Tamhane

Er. RC Valera Er. SM Kamble

Er. HR Shah Er. RJ Thakkar

Er. RJ Revar Er. BK Rakholiya

Er. KH Joshi Er. MK Majmudar

Er. VJ Desai Er. HM Shukla

Er. DJ Shah Er. DS Shah

Er. DB Patel Er. NC Makadiya

13. Open house Session

Er. GV Akre, Chairman and Er. SM Godkhindi, Treasurer of the Chapter conducted the open house session. The following is the gist.

a. **Er. VB Harani**, suggested approaching Engineering Colleges in and around Vadodara for Student & Faculty membership drive. He also suggested to arrange a technical visit of State of Art Training Centre, ABB for SPE(I) Vadodara Chapter members. The suggestion was accepted.

b. **Prof. AK Singh**, suggested that SPE(I) Vadodara Chapter should fix a target of taking the membership to 2500 nos. and achieve complete digitalization and paperless business by 2021 i.e. completion of existence of 25 years of the Chapter. This was welcomed.

In the reply, Er. Akre informed that new comers are computer savy. At

present, Er. Keval Velani has taken keen interest in digitalization of the activities of Chapter. He also appealed to all the members to provide e-mail Id and Whatsapp No. etc. so that all communication including SPE NEWS Letter can be delivered paperless.

- c. Er. Namra Joshi** suggested to develop online membership facility. He also suggested arranging Seminar in Engineering Colleges in Maharashtra bordering Gujarat.

His suggestion was noted. Er. Joshi is member hailing from Indore.

- d. Er. Nihar Raj** suggested utilization of all available facilities such as Face Book, Instagram, Whatsapp etc. widely so that all members can share their views, raise technical queries and exchange/share their experience and possible solutions. This will go a long way in collaborating and supporting complete digitalization.

His suggestion was noted.

14. Election of Executive Committee Members:

Er. PN Shah, DE, MGVCL, who was Polling & Returning Officer, conducted the Election for four posts of Executive Member for the years 2019-2022 and one post of Executive Member for the years 2019-2021 (Against vacant post by virtue of resignation of Er. DC Mehta). Er. PA Shah, Er. JDTamhane, Er. Pranav Pandya, Er. Urmila Shah, Shri Chauhan and Shri Milan Patel assisted in the Election work. Against four posts,

following five members have contested:

- (1) Er. SMGodkhindi.
- (2) Er. VB Harani.
- (3) Er. NC Solanki.
- (4) Er. SM Takalkar.
- (5) Er. SP Trivedi.

The process of voting was conducted smoothly and after counting, the following four members were declared as Elected by election officer Er. PN Shah.

- (1) **Er. SM Godkhindi**
- (2) **Er. SM Takalkar**
- (3) **Er. NC Solanki**
- (4) **Er. SP Trivedi**

Against one vacant post for 2 years, only one nomination by **Er. YK Sharma** was received and he was declared elected as EC member uncontested

Newly elected five EC Members were felicitated by Bouquet by Chairman. Er. PN Shah was felicitated with a memento by Chairman Er. GV Akre.

15. Vote of Thanks:

Er. GP Shukla, Jt. Secretary offered Vote of Thanks.

The AGM ended after recitation of National Anthem which was followed by delicious dinner.

16. Anchoring:

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

Memorable Events

23rd AGM – 2019 on 25th August 2019



Felicitation of Prof. Awadhesh Kumar Singh by Power Engineering services award - 2019



Felicitation of Er. Hitesh R Karandikar by Power Engineering services award - 2019

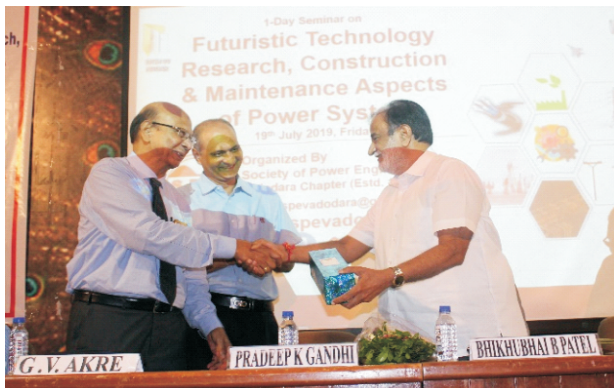


Felicitation of Er. Nihar S Raj by Power Engineering services award - 2019



Er. GV Akre, Chairman conducting Open House

VV Nagar Seminar



Felicitation of Bhikhubhai, Chairman (CharutarVidhya Mandal) by Er. GV Akre, Chairman (SPE)



Er. Pradip Gandhi, GM ,Elecon Engineering & Guest of Honour, delivering speech

Radheshyam Raiyani
Head Electrical



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Report on 1-Day Seminar at Vallabh Vidyanagar

Inaugural Session

The Society of Power Engineers (I), Vadodara Chapter organized 1-Day Seminar on **“Futuristic Technology Research, Construction and Maintenance aspects of Power System”** on 19 Jul 2019 at the Auditorium of BVM Engineering College, a prominent institution of Engineering Education of Vallabh Vidyanagar and educational hub of Gujarat/India.

It was a matter of great pleasure and pride for Vadodara Chapter of SPE(I) that Seminar was inaugurated by following dignitaries during inaugural function.

Er. Bhikhubhai B Patel, Chairman, Charutar Vidya Mandal as a Chief Guest of the Function. Er. Pradip Gandhi, GM of M/s Elecon Engineering as the Guest of Honour of the function. M/s Elecon Engineering were the main Sponsor of the event. Er. KS Patel and Er. KB Dhebar, SE-MGVCL, Er. VG Paradkar, SE-GETCO, Er. Indrajit Patel, Principal-BVM Engineering College and Er. BR Parekh, HoD-BVM Engineering College. Their auspicious and valuable presence has made the difference to the function.

After the auspicious Digital Mangal Deep Pragatya by above dignitaries, Er. GV Akre, Chairman, SPE(I) Vadodara Chapter warmly welcomed the Chief Guest, Guest of Honour, Invitees and Delegates of the Seminar during his welcome speech and presented the brief of the seminar.

Oral welcome was followed by the floral

welcome of the dignitaries on dais.

After the felicitation of the dignitaries, the revival of SPE(I)'s Vidyanagar Chapter was done formally by Er. Indrajeet Patel in auspicious and inspiring presence of all the dignitaries. He also spoke few words on the occasion of revival of Vidyanagar Chapter.

Thereafter, Er. Pradip Gandhi, Guest of Honour, delivered a speech on the occasion and praised the activities of Vadodara Chapter of SPE(I) for organizing such engineering seminars for the benefit of industries of Gujarat. Other dignitaries on dias also spoke on the occasion.

Er. Bhikhubhai Patel, Chief Guest of the function, in his encouraging inaugural address, advised the students and delegates to take the benefit of knowledge sharing event.

After the speech of the Chief Guest, SPE(I) Vadodara Chapter took the opportunity to felicitate the representatives of the Sponsor, Co-sponsors, Supporters and Donors with pride, pleasure and honour.

Thereafter, inaugural function was concluded with a Vote of Thanks by Er. SM Takalkar, Vice-Chairman, SPE(I) Vadodara Chapter. He conveyed a word of gratitude to one and all who have contributed to make this seminar a grand success.

The technical sessions followed the inaugural function. The session wise details of the presentation are given here under.

Technical Session

Technical Session	Speaker Details			Topic
Technical Session-1	Er. Shivani Sharma	Principal Technical Consultant	ABB India Ltd	Integrating Distributed Renewables and Sharing India's First Industrial Solar Microgrid Experience in Vadodara
Technical Session-1	Er. SM Takalkar	Managing Director	TPEC Pvt. Ltd.	Inter Disciplinary Studies, Job & Business Opportunities in Power Sector
Technical Session-1	Er. GV Akre	Director	Hivoltrans Electricals Pvt. Ltd.	Futuristic Technologies in Upcoming Power Trends
Technical Session-1	Er. PA Shah	Associate Engineer	TPEC Pvt. Ltd.	Energy Conservation in Industries
Technical Session-2	Er. Nihar Raj	Vice President	ABB India Ltd	Evolution of Skills & Managing Competency for Upcoming Power Scenario
Technical Session-2	Er. Vrajesh Desai	Head Technical Ex. ABB, EDM Instrument Transformer	Lustre Engineering Corporation	Role of Instrument Transformers in Power System and its Condition Monitoring during service in system
Technical Session-3	Er. YK Sharma	Ex. Superintending Engineer	Er. SE, MGVCCL	Futuristic Technology in Power System Equipment & Accessories
Technical Session-3	Er. Ritesh Patel Er. Chintan Patel	Professor Assistant Professor	GCET	Analysis of Aging on Silicon Rubber Insulators used in Overhead Transmission Lines

All the technical sessions were found to be very much informative, interesting and interactive. All the queries from the delegates were very well taken up and answered by all the knowledgeable and experienced faculties.

Concluding Session

During the concluding session, Er. SM Takalkar, Vice-Chairman, SPE(I) summed up the seminar and thanked one and all for the support and cooperation during the session. SPE(I) received various encouraging feedbacks for the seminar from various delegates. Total 135 delegates actively

participated in the seminar from various utilities, industries and academic institutions.

All the three sessions of seminar i.e. Inaugural, Technical and valedictory were well anchored by Er. Mrugen Mehta, AC member of SPE(I) Vadodara with a classic humour and befitting quotes and kept the delegates on high energy throughout the seminar.

In a nutshell, the seminar was a great success in all respect in terms of quality & quantity of faculties and papers, delegates participation and overall arrangements.



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Sub-Committees

Following Sub-Committee were formed, unanimously to ensure smooth and fast working as well as good participation and contribution of members.

❖ **Office Administration**

Er. NG Yadav, Er. NC Solanki, Er. GP Shukla

❖ **Editorial Board**

Er. AK Singh (Editor), Keval Velani (Convener), Er. MG Mehta, Er. AN Makwana, Er. NV Rede.

❖ **Seminar / Workshop -Academic, other & EC (GEDA)**

Er. SM Takalkar (Convener), Er. YK Sharma, Er. VJ Desai, Mrs. Shivani Sharma, Er. YV Joshi, Er. PA Shah, Er. Hetal Prajapati, Er. KN Velani, Er. VB Harani, Er. RN Purohit and Er. DH Chaudhari

❖ **Purchase & Service**

Er. NG Yadav (Convener), Er. DC Mehta, Er. RS Shah, Er. GP Shukla, Er. JK Surti and Er. KN Rathod.

❖ **Programme Implementation**

Er. NG Yadav(Convener), Er. JK Surti,

Er. PM Mohite, Er. NC Solanki, Er. MG Mehta, Er. DH Chaudhari and Er. SP Trivedi

❖ **Monthly Lecture & Technical**

Er. SM Takalkar(Convener), Er. VJ Desai and Mrs. Shivani Sharma

❖ **Website Committee**

Er. KN Velani (Convener), Er. DC Mehta, Er. PA Shah and Er. VJ Desai

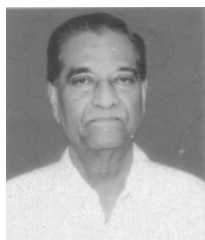
❖ **Membership enrollment Committee**

Er. GV Akre (Convener), Er. SM Takalkar, Er. YV Joshi, Er. YK Sharma, Er. AN Makwana, Er. PA Shah, Er. Nihar Raj, Mrs. Shivani Sharma and Er. Hetal Prajapati

Er. SM Takalkar suggested that each sub-committee should meet at a regular interval and submit report to the committee meeting on 1st Sunday of the month. The Secretary shall monitor the activities of the sub-committee. This suggestion was accepted.

Er. MG Mehta suggested that the scope of work for each committee should be defined. Er. Takalkar assured to work in this direction.

OBITUARY



Er. Vipinchandra B Kambad, Life Member and Advisory Committee Member of Society of Power Engineers (I) Vadodara Chapter passed away on 08 Aug 2019.

Born on 15 May 1946 at Bhavnagar, he obtained Diploma in Electrical and Mechanical Engineering in the year 1967 and 1969 respectively from BPTI, Govt. College, Bhavnagar. He started his career as Junior Engineer in erstwhile Gujarat Electricity Board. During his tenure as JE & DE in GEB, he obtained AMIE and FIE from IE(I).

He resigned from GEB and started his own consultancy as Chartered & Professional Engineer. He was also a member of Indian Council of Arbitration and Fellow Member of Institution of Valuers. As a Life Member and Advisory Committee member, he rendered selfless honorary service to SPE(I) Vadodara Chapter during all major and minor events organized by the Chapter.

In his death, SPE(I) Vadodara Chapter has lost a strong Supporter and well Wisher.

We pray to the God to rest his soul in eternal peace and give strength to his family to bear the impact.



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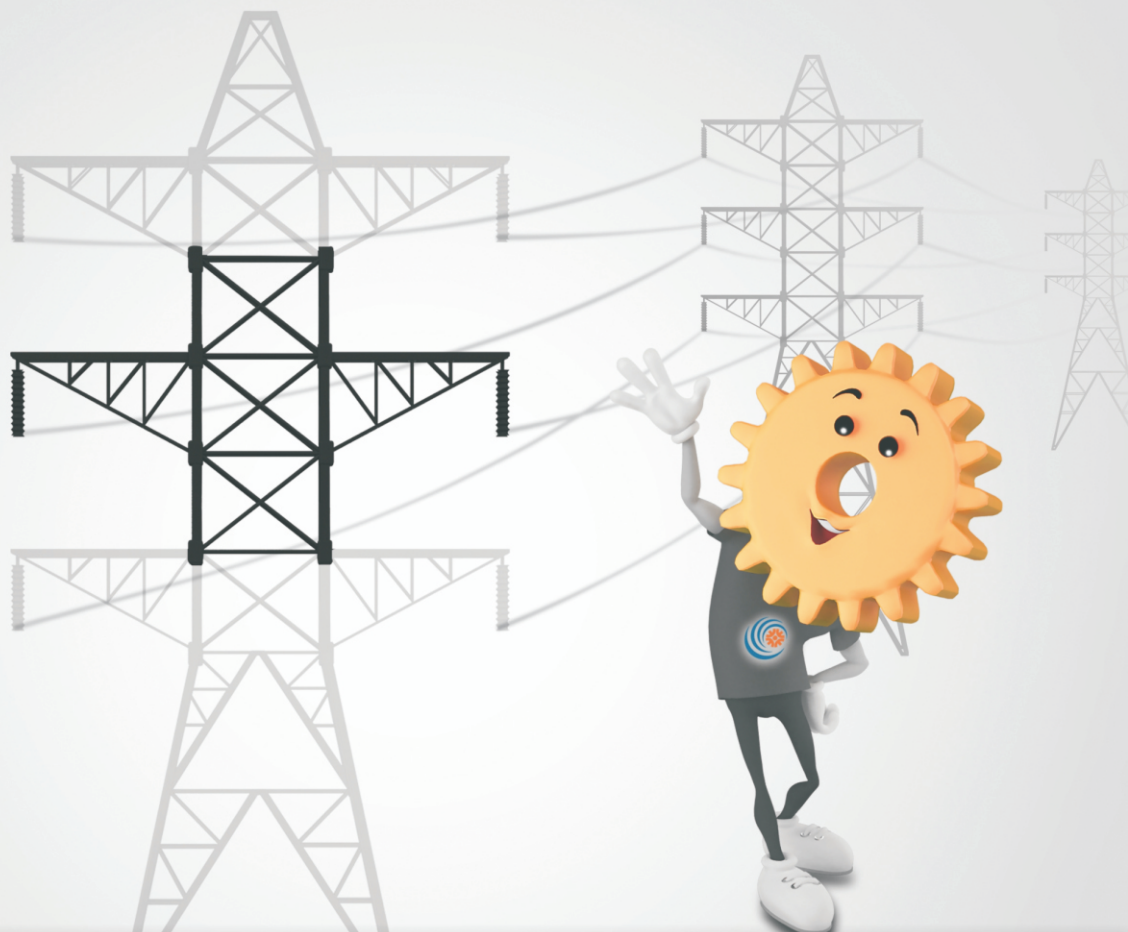
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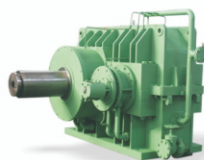
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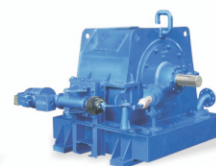
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