

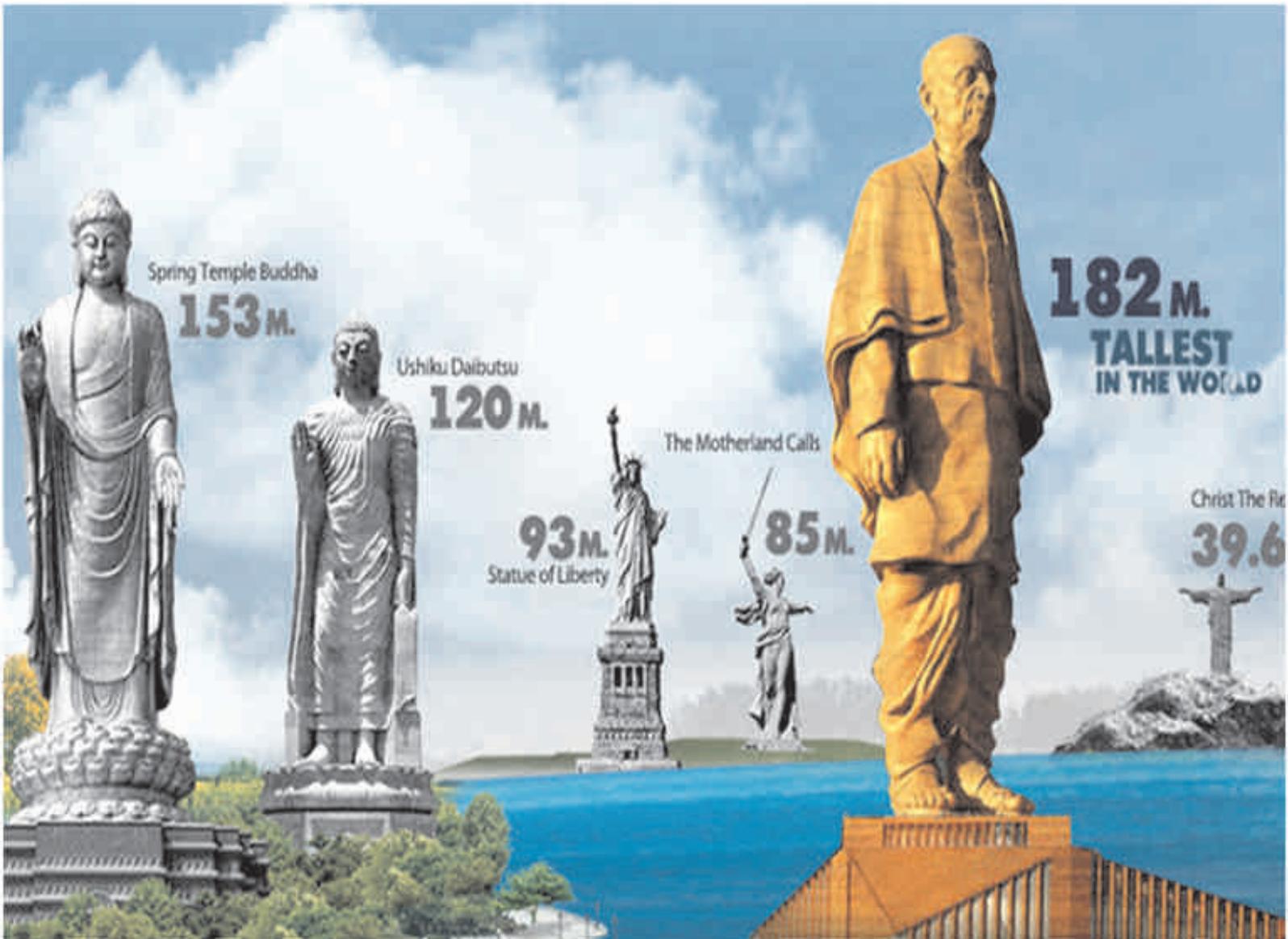
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(FOR PRIVATE CIRCULATION ONLY)

S P E NEWS LETTER

A QUARTERLY PUBLICATION OF THE SOCIETY OF POWER ENGINEERS (INDIA)



THE SOCIETY OF POWER ENGINEERS (INDIA) VADODARA CHAPTER ESTD. 1996

FF-48, Avishkar Complex, Old Padra Road, Vadodara – 390 007

Phone: (0265)232 2355

E – Mail: spe.cbip@gmail.com, spevadodara01@rediffmail.com

Web: www.spevadodara.in

EXECUTIVE COMMITTEE FOR THE YEAR 2014-15

- | | | | |
|--------------------|-----------------|-------------------------|----------|
| 1. Er. G V Akre | - Chairman | 6. Er. R N Purohit | - Member |
| 2. Er. S B Lele | - Vice Chairman | 7. Er. K N Rathod | - Member |
| 3. Er. V B Harani | - Secretary | 8. Er. P O Kulshreshtha | - Member |
| 4. Er. G P Shukla | - Jt. Secretary | 9. Er. B N Raval | - Member |
| 5. Er. A N Makwana | - Treasurer | | |

ADVISORY COMMITTEE

- | | | |
|-------------------------|---------------------|-----------------------------|
| 1. Er. SM Takalkar | 6. Er. JK Surti | 11. Er. YV Joshi |
| 2. Er. NV Rede | 7. Er. VB Kambad | 12. Er. Gitesh Chikhaliya |
| 3. Er. KG Shah | 8. Er. NC Solanki | 13. Er. Kandarp Brahmabhatt |
| 4. Er. GM Bahudhanye | 9. Er. NG Yadav | 14. Er. DC Mehta |
| 5. Er. Smita A Kanitkar | 10. Er. Nihar S Raj | 15. Er. JD Wadhwa (Prof.) |

OFFICE ADMINISTRATION COMMITTEE

- | | | | |
|------------------|------------------------|----------------------|-------------------|
| 1. Er. KN Rathod | 2. Er. PO Kulshreshtha | 3. Er. GM Bahudhanye | 4. Er. NC Solanki |
|------------------|------------------------|----------------------|-------------------|

EDITORIAL BOARD

- | | | | | |
|--------------------|----------------|-----------------|-----------------|------------------|
| 1. Er. SM Takalkar | 2. Er. NV Rede | 3. Er. DC Mehta | 4. Er. JK Surti | 5. Er. N. Dinker |
|--------------------|----------------|-----------------|-----------------|------------------|

SPECIAL INVITEE TO THE EXECUTIVE COMMITTEE

Er. N. Dinker

National General Meeting of SPE(I) at Vadodra



From The Chairman's Desk



On 10 & 11 Oct 2014, the Chapter organized a 2-Day National Seminar on Substation Design Engineering and Construction in Vadodara. More than 200 delegates participated in the seminar. GETCo was a knowledge partner. Perhaps this is the first time that a seminar covering Civil, Electrical and Mechanical Engineering aspects of substations is arranged in the country. This can be termed as an achievement on the part of Vadodara Chapter, though the event did not go well in financial terms. However, Chapter is sure to diversify its activity and expand the horizons. The Executive Committee and the Advisory Committee members have now decided to focus on academic needs of engineering colleges in the state of Gujarat. This will help in good penetration in the service oriented activities. Members of SPE (I) Vadodara are requested to find out ways and means to propagate the cause of SPE (I) Vadodara in the academic institutions known to them. Besides, members may also enroll themselves to work as faculty members for the seminar and workshop which may be organized by SPE (I) Vadodara in engineering colleges. An appeal to this effect is already covered in this News Letter. However, members are free to contact SPE (I)'s office in Avishkar Complex for enrollment.

Through this communication, I wish all the members of SPE (I) Vadodara and readers of this news magazine A Very Happy New Year. I pray that almighty showers all the blessings and good luck to you all and your family members.

G. V. Akre
Chairman

Editorial



As the years pass human being likes to look back at the important events of his personal, social, political or professional career. This is like universal truth. Some times we say "time is flying". This is more true for an individual who keeps himself occupied, disregarding the age. Luckily for the senior citizens, these days, there are many avenues to keep themselves engaged, which may or may not lead to the monetary gains but surely allow a good time pass in creative activities. I very well remember the days following the independence, when a retired individual had practically nothing to do save nursing grand children or attending social functions. In addition to the senior citizens, there are individuals who have light assignments in business such as academics. Such individuals look forward to do something in the spare time available with them.

The Vadodara chapter of SPE(I) is such a platform which can help the senior (retired) engineers in deploying their spare time in its activities of SPE(I). Same is applicable to the individuals who have time to spare. Of course, in both the cases, the aptitude to keep pace with the latest technological trends and keeping one self updated, is vital.

SPE Vadodara welcomes every one who may like to contribute his might in the development of the institution and directly or indirectly help the power sector.

Good wishes for the New Year.

SM Takalkar
Editor

CHAPTER'S ACTIVITIES

- On 26 Jul 2014, a lecture on Cyber Crime was arranged at GETRI Auditorium. The speaker was Shri Dipak Ray, Consultant, Soft Skill Trainer and Visiting Faculty to Universities. The speaker gave detailed account of how we are unsafe against the Cyber Crimes, while we have an access to the internet and mobile. He deliberated on various aspects related to the modus operandi of Cyber Crime. He went on to indicate the safeguards against the Cyber Crime.

The lecture was found to be very good, as almost every learned individual has an access to the internet and mobiles.

- On 14 Sep 2014, AGM of Vadodara Chapter was held at Baroda High School, Alkapuri. The AGM was followed by a Cultural Programme and Dinner. Report of the AGM is brought out in this issue.
- On 10 & 11 Oct 2014, a 2-Day National Seminar on Substation Design, Engineering and Construction was organized at Appuson Banquet, Akota. Seminar was followed by National AGM of HQ-Delhi. Report of Seminar and AGM is brought out in this issue.

APPEAL

Training Programme

SPE (I) Vadodara is receiving request from Engineering Colleges and other Institutions for conducting training programme. We request the members to serve as a faculty members and share their expertise and experience on various subjects related to Power Engineering. Please send the details as under:

- | | | |
|-----------------------------|---------------------|-------------------------|
| 1. Name | 2. Place of working | 3. Experience/Expertise |
| 4. Subject of Interest/Talk | 5. Contact Nos. | 6. Postal address |
| 7. E-mail Id. | | |

This will be a voluntary service for which a token honorarium, as may be possible, will be paid to the faculty. With this effort and initiative, SPE (I) shall be able to consolidate the technical and financial position.

In this initiative, following engineers have already offered their services.

- | | | |
|--------------------|-------------------|--------------------|
| 1. Er. SM takalkar | 2. Er. SB Lele | 3. Er. BN Raval |
| 4. Er. GV Akre | 5. Er. RN Purohit | 6. Er. PA Shah |
| 7. Er. KN Rathod | 8. Er. DC Mehta | 9. Er. JN Pancholi |

Members are requested to come forward and enroll their names as indicated above.

Publishing an Advertisement in Quarterly NEWS LETTER

Society of Power Engineers (I), Vadodara Chapter publishes Quarterly NEWS LETTER which is sent to its members, HOD of Electrical Engineering Department of various Engineering colleges in Gujarat, CBI &P, New Delhi, SPE(I) Chapters in other States and various Power Utilities in the Country

Members of SPE(I), Patrons and Well Wishers are requested to send their advertisement for publication through Quarterly NEWS LETTER of SPE(I) Vadodara:

The rates for publishing one time in the quarterly issue are given below.

Full Page (A4 Size) in B/W	Rs. 2,500/- per issue	Half Page B/W	Rs. 1,500/- per issue
Full Page (A4 Size) in Colour	Rs. 3,500/- per issue		

18th Annual General Body Meeting - Report



The 18th General Body meeting of the SPE (I), Vadodara Chapter was held at Baroda High School, Alkapuri on 14 Sep 2014. 108 members participated in the meeting.

The Vice-Chairman Er. S.B. Lele welcomed all the members.

There after the tributes were paid to late Er. NN Jadhav (Dada) and late Er. RH Shah, who passed away during the year, by observing 2 minutes silence. Following this the General Body meeting started.

The Secretary Er. VB Harani read out the minutes of last Annual General Body Meeting held on 15 Sep 2013. The Minutes were approved.

The Secretary's report was circulated to the members in advance. There was no debate on it.

The Treasurer Er. AN Makwana presented the audited financial account for the year 2013-14. Certain information was sought by Er. MM Naik, Er. MG Mehta and it was replied suitably by Er. VB Harani and Er. AN Makwana. The audited accounts were then passed

It was informed to all members that now it is necessary to raise the funds to cope up with expenditure as inflation is increasing. Ideas to raise the fund were solicited

The budget for the year 2014-15 was presented by the Secretary Er. VB Harani. Upon a question regarding inflated figures in the budget, it was informed that the budget is prepared looking to the National Seminar on Substation Design, Engineering & Construction to be held on 10-11 Oct. 2014.

The annual merit awards for engineering excellence and achievement were given to the following members:

- (i) Mr. Dipesh Patel of Babaria Institute for Ph.D.
- (ii) Mr. Vinod Gupta of ERDA for Ph.D.

- (iii) Mr. RN Purohit, for getting Gold Medal in Law
- (iv) Dr. M.K. Shah for assuming the office as Director, ERDA

The recipients expressed their gratitude towards SPE(I) Vadodara Chapter for recognizing their achievements.

Following life members, who have completed 65 years of age as on 31-08-2014, were honored by presenting bouquet and shawl :

- (1) Er. Bahudhanye GM
- (2) Er. Kanitkar Smita A
- (3) Er. Kelkar RB
- (4) Er. Panchal RM
- (5) Er. Patel VD
- (6) Er. Patel KG
- (7) Er. Ramatirtha CG
- (8) Er. Shah GK
- (9) Er. Shah JB
- (10) Er. Sheth KV
- (11) Er. Solanki NC
- (12) Er. Trivedi SR
- (13) Er. Vishwakarma RR
- (15) Er. Soni CK
- (14) Er. Pancholi PM
- (16) Er. Mehta NB

Er. KG Patel donated of Rs.1,500/- and Er. KV Sheth donated Rs. 1,000/- to SPE(I) Vadodara. The members present appreciated the gesture by a big applause.

The election was held for 3 vacant posts of Executive Committee Members.

Er. YD Mehta was the Polling & Returning Officer. Er. MK Mahida and Er. JK Surti assisted him. Against 3 posts, 5 Nominations were received from Er. GV Akre, Er. AN Makwana, Er. BN Raval, Er. KG Shah and Er. NC Solanki. During election 108 Votes were polled.

After observing all formalities of election procedure, Er. GV Akre, Er. AN Makwana and Er. BN Raval were

declared elected by the Polling and Returning Officer.

As a part of the business of AGM, the following was resolved

- (i) To increase the strength of Executive Committee members of Vadodara Chapter from 9 to 12. It will be implemented in the year 2015-16 subject to approval of SPE(I),HQ, New Delhi.
- (ii) To nominate Mr. NirajMajumdar as Chartered Accountant for SPE(I) Vadodara Chapter for the year 2014-15

At the end, Er. GV Akre, Chairman thanked all the members for the valuable support. The General Body Meeting ended with vote of thanks.

Following the AGM, a Cultural Program was arranged for the members and their spouse. The Auditorium was fully packed with the audience.

Ms. Medha Bhosle an accomplished and renowned Light Music Singer from Vadodara, gave the performance. She presented Bhajans, Garba, Old Hindi, Gujarati and Marathi Songs.

The program was well received by audience present.

The programme ended with a grand dinner.

VB Harani, Secretary

National AGM - Report

The National AGM of SPE (I) was held at Vadodara on 11 Oct 2014 at 18:30 hrs. After meeting the quorum requirements, the meeting started at 18:45 hrs. Er. PP Wahi, Director, CBI&P, New Delhi presided over the meeting. Other office bearers on the dais were Er. GV Akre, Chairman, Er. SB Lele, Vice-Chairman and Er. VB Harani, Secretary, SPE(I) Vadodara Chapter. The meeting was attended by 68 members which included the Executive Committee members of SPE (I) Vadodara Chapter.

Er. PP Wahi, Director, CBI&P New Delhi who represented the New Delhi H.Q. of SPE (I) welcomed the members present and congratulated the Vadodara chapter for continuing the activities for last 18 years consistently. He expressed his concern over the existence and revival of other chapters in the country. He stated that no other chapter in the country except one at Vadodara, is active.

Er. Harani then took up the agenda points for discussion on behalf of Central Body.

- The minutes of last AGM were circulated and were passed unanimously.
- The Secretary's report was also discussed and approved. The membership of all chapters was

sought to be reviewed for correctness and have to be validated. This was assured to be done by H.Q.

- Accounts for the year 2013-14 were passed in the meeting
- Amendments of the bye-laws were approved by the members as per last meeting held at Vadodara on 12 Oct 2013, after discussions. Er. RN Purohit proposed to withdraw the resolution passed by the last AGM barring the Executive Committee members from holding the office for more than two consecutive terms, as an elected members and requiring them to take a break of at least one year, during which the concerned (he/she) would not be able to contest election to the executive committee. Er. Wahi inquired for the reasons for the proposal and now the withdrawal of the same. This was debated and the house was informed that the proposal was mooted to induct and encourage new and young members in the executive committee which would bring in new ideas and new resources to SPE(I). Er. SM Takalkar pointed out certain provisions of the constitution and bye-laws which forbid such a ban on continuity as an office bearer. He also mentioned certain technical difficulties in implementation of the earlier resolution. Er. Akre, Er. Purohit, Er. Lele and many

other members also expressed their views. Ultimately it was agreed to withdraw this resolution since it was also not included in the amendments to the bye-laws. As such it was decided to maintain status quo.

- Er. SM Takalkar and Er. GV Akre suggested to increase the strength of members of the executive committee from present 9 to 12, which would give more strength to the working of SPE(I). Er. Wahi wanted the justification and expressed that this may not serve the purpose if more members are inducted in the executive committee. Er. Lele explained the various pros and cons of the proposal and requested the members to opine in the matter. The proposal was not accepted after due deliberations and it was decided that present strength of 9 is to be maintained. Er. Akre suggested the Vadodara chapter has an Advisory committee to assist the SPE(I) Vadodara chapter as and when required and they meet on first Sunday of every month regularly to decide various programmes and strategies. This was working satisfactorily. Er. MO Sheth inquired the constitutional status of the advisory committee. Er. Wahi agreed that there is no such provision but the local chapter is free to look forward to external resources in the form of Advisory committee. As such, this did not violate any constitutional provisions.
- Er. Wahi complimented the newly started chapter at VV Nagar which was represented by Er. Ishaq Sheikh and Dr. Ritesh Patel, HOD, GCET V.V. Nagar. Dr. Ritesh Patel informed that after the departure of Dr. Axay Mehta, who spearheaded the activity at V.V. Nagar, the chapter had faced some lull but now there are 197 annual members on their roll. The chapter conducted 48 activities including industrial visits and 2 state level technical festivals at academic level. He reported that advice & guidance were sought from Vadodara chapter as well as from HQ, New Delhi for better operation and progress. Er. VB Harani suggested that the VV Nagar chapter has to submit audited report by

chartered accountant every year. Er. Wahi assured the necessary help and asked him to contact regularly and keep him informed about the activities.

- The meeting was also attended by Er. Praful Chudasama, Asstt. Prof. from Dept of Electrical Engineering, Shroff SR Rotary Institute of Chemical Technology at Vataria, Ankleshwar. He informed the house that they were inspired by the SPE(I) Vadodara chapter and desired to open the chapter at Ankleshwar / Bharuch which had a large industrial base with hundreds of engineers and many engineering institutions. Er. Wahi expressed happiness and requested him to contact SPE(I) Vadodara for all necessary assistance and promised the guidance form HQ- New Delhi. Er. VB Harani suggested that a meeting of Power Engineering from Industries / Students / Electric equipment mfgs. etc. should be called first to know the views. Er. Wahi informed that Er. SB Lele, Er. VB Harani and Er. SM Takalkar should attend the meeting.
- With the permission of chair, Er. Lele and Er. Purohit proposed the nomination of Er. SK Negi, MD, GETCO to take over as Chairman of SPE(I) New Delhi HQ and Er. P. Varshaney of PTC, New Delhi as Vice-Chairman of SPE(I) New Delhi HQ. The proposal was seconded by Er. SM Takalkar and was unanimously passed. Er. Akre requested Er. Wahi to suitably communicate this decision to the newly elected incumbents and convey our congratulations to them.
- The matter regarding reviving existing chapters which are infuncton and opening of new chapters was discussed at length. It was decided to jointly work for achieving the objective.

The AGM came to an end with vote of thanks from Er. PP Wahi.

N.B. The profiles of Er. SK Negi, MD, GETCO & Er. P Warshney, PTCC will be published in the next issue.

THE NATIONAL SEMINAR ON SUBSTATION DESIGN ENGINEERING AND CONSTRUCTION

ON 10 & 11 Oct 2014 at VADODARA – REPORT

The above seminar was organized by SPE (I) Vadodara Chapter in the Appuson Banquet Hall in Vadodara. The seminar was supported by the Central Board of Irrigation & Power (CBIP), New Delhi. The Gujarat Energy Transmission Corporation (GETCo), Vadodara was the knowledge partner. More than 200 delegates from the various Utilities, Equipment Manufacturers, Consulting Firms, EPC Contractors and Individuals participated in the seminar. The seminar was divided into 8- Sessions comprising inaugural function and seven technical sessions.

The inaugural function was graced by Er. SK Negi, MD, GETCo, Er. AA Chhaya, ED, GSECL and Er. PP Wahi, Director, CBIP. Er. GV Akre, Chairman and SB Lele, Vice-Chairman, SPE(I) Vadodara Chapter shared the dais with above dignitaries. After formal singing of prayer, Er. GV Akre presented a welcome speech. The dignitaries on dais were felicitated. The lighting of lamp followed the felicitation. Er. SB Lele gave brief idea about the topics of seminar. Er. PP Wahi spoke about the role of CBIP in promoting R & D and working as an umbrella to SPE (I). Er. Negi gave a key note address. In his speech, he covered the aspects of structures, foundations and local problems which require to be attended while constructing the sub-station. The location of sub-station is very important for ease in operation and access. Smart sub-stations, compact substations (GIS) and hybrid sub-stations (GIS cum AIS) are the need of the day. Timely completion of the project is vital from the system point of view. He touched upon the quality and performance reliability of equipment of the substation. He added that the Design and Engineering of the substation is a precise job and has to be done carefully. He touched upon the salient components of the substation. He opined that the establishment of new substation should have a provision for future development. He emphasized the need to innovate and adoption of latest technology. He congratulated SPE (I) Vadodara Chapter for organizing such an event covering all aspects of Engineering of substation. Vote of thanks was presented by Er. VB Harani, Secretary SPE (I), Vadodara Chapter. The details of technical sessions are as follows:

10 Oct 2014

Session I

**Session Chairman - Er. PP Wahi, Director, CBI&P
Papers Presented -**

1. Techno-Commercial challenges and solutions obtained for gas insulated substation at Kamakhya by Er. Biswajit Bhattacharya, Er. Biswajit Mukherji, Er. Ayan Raychaudhury, Er. Santipriya Pal from Alstom.
2. Techno-Economic considerations for the structural and civil works in EHV AIS by Er. SM Takalkar from Takalkar Power Engineers & Consultants Pvt. Ltd.
3. Nine attributes required to execute civil works for electrical sub-station - Case study of GIS at Bhilai Steel Plant by Er. Alok Bhargava from KEC International.
4. Application of Bituminous Asphalt as Switchyard surface top layer - Case study by Er. Leena Patil, Er. Kumar Hemant Singh, Er. Alok Bhargava, Er. Vijay Kokate, Er. Hari Krishna Panga, Er. Jaydeepsingh Pardeshi from KEC International.

Session II

**Session Chairman - Er. Nihar S Raj, ABB-Vadodara
Papers Presented**

1. Testing and commissioning of High Voltage Substations by Er. ChandraShekar from BHEL.
2. Design of 132/25kV AC Traction Sub-station by Er. Prakasam, Er. CG Ramtirth, Er. KS Dharwadkar.
3. Design and development of conductor fittings for HTLS conductors by Er. Sudhir Kulkarni from Ramelex Ltd.,

Session III

**Session Chairman - Er. GR Patel, Ex. ABB
Papers Presented**

1. Modern Technology Trends in EHV & UHV Sub-stations in India by Nihar Raj from ABB.
2. High availability SCADA networks and its Implementation at Adani Power Limited by Er. Sumeet Sharma from Adani Power Ltd.

-
3. Practical interlock logics to prevent undesired Circuit Breaker closing, isolator opening and charging of bay in sub-station using IEDs. By Er. Sanjay Bhatt from Adani Power Ltd.

11 Oct 2014

Session IV

Session Chairman - Er. DC Mehta, Retd. CE, GETCO

Papers Presented -

1. Design of Earthing system for a sub-station by Er. Karikalan M from Adani Power Training & Research Centre.
2. Design of substation and equipment sizing by Er. SC Lingarchani from Takalkar Power Engineers & Consultants Pvt. Ltd.
3. Substation Engineering and Power System for a typical Smart City by Er. KG Gaikwad from Takalkar Power Engineers & Consultants (P) Ltd.
4. Design and R & D sub-station based on fault analysis by Er. Pravinchandra Mehta from MBH Power Pvt. Ltd.
5. Retrofit type electro optical current transformer for digital sub-station by Er. Asheesh Dhaneria and Er. Shailesh Patel from ERDA.

Session V

Session Chairman - Er. SM Takalkar, MD, TPEC

Papers Presented -

1. Technical challenges and solutions obtained in earthing design for various switchyard projects by Er. A Rabi Shankar Banerjee and Er. B Biswajit Mukherjee from Alstom
2. Indoor Industrial Sub-station for continuous process industries by Er. Kalpesh Trivedi from Jacobs Engineering India Pvt. Ltd.
3. Fast Project solution - EHV CB replacement by Er. MA Prajapati from GETCO.

Session VI

Session Chairman - Er. Smita A Kanitkar

Papers Presented -

1. Practices for transformer oil evacuation and water separation in sub-station with STADD design by Er. Pravinchandra Mehta from MBH Power Pvt. Ltd.

2. Role of substation civil design engineer- Significance of interface between civil engineering and electrical engineering by Er. PP Shah from GETCO.

Session VII

**Session Chairman - Er. GV Akre, Chairman-SPE(I)
Vadodara Chapter**

Papers Presented -

1. Practices for Transformer oil evacuation and Water separation in substation with STADD Design by Er. PB Mehta from MBH Power (P) Ltd.
2. Role of substation Civil Design Engineer: Significance of interface between civil engineering and electrical engineering by Er. PP Shah from GETCO, Corporate Office.

After the technical sessions, there was a concluding session which was chaired by Dr. JJ Patel, Director of High Volt Insulators. In his concluding remarks he stated that the papers covered most of the topics for the substation and were really useful for the EPC contractors. He praised the rank and file of SPE (I) Vadodara Chapter for selecting a good theme and successfully organizing the seminar. He voted that the proceedings of the seminar would be beneficial to all the power engineers engaged in the sub-station work. The dais was shared by Er. SM Takalkar, Er. GV Akre, Er. SB Lele and Er. GR Patel.

The representatives from the participating delegates came forward to express their views and provide feed back on the seminar.

There were four stalls for exhibiting the products from the following companies.

1. M/s Supreme Electricals, Hawrah
2. M/s Ramalex, Pune
3. M/s Emco, Mumbai
4. M/s CBIP, New Delhi.

The delegates and invitees paid visit to the stall and has an interaction with the representatives at the companies.

Invention and Innovation

Innovation means development of not so far available / existing ways and / or means for practical application of scientific knowledge. Here the **ways** indicate methods or processes such as Pasteurization of milk for long preservation, Sanforization to make cloth shrink free and wrinkle free, Hydrogenation to prepare ghee from vegetable oils. **Means** indicate devices or machines such as telephone to transfer voice on wire, lamp to produce light from electricity, engine to produce motion from chemical energy of fuel. Invention is mostly related to science and technology and is result of dedicated efforts of genius expert.

Consider a case of public water post in slum area. Residents were standing in queue with vessel to fetch water. Queue starts in advance and they have to stand long for their turn in odd situation such as severe cold or rain or hot sun etc. Task was awkward but was very necessary to get water and hence all follow the custom. But a person thought differently and he put his vessel in queue in place of him and moved to comparative comfortable place under the shed and was waiting for his turn. Observing this better alternative, after a while, other persons also followed him. Ultimately there was a queue of vessels and people were free of queue. Many have started other activity to use the idle time till their turn. Only one person goes to water post to collect the water on his turn. This simplest innovative idea gave relief to all. The objective of queue is to get turn as per arrival at the site i.e. serve first who come first and that is achieved by indirect queue as above.

This concept of indirect queue is employed in other field in modified way. There is queue in various offices like bank, hospital, pass port office etc. Numbered token is given to each visitor on arrival at the office and called as per token number. All can seat leisurely in waiting lounge, listening to music or watching TV programme, till his turn comes. If the time gap for his turn is estimated to be long, idle time can be utilize for other work. Most refined version of indirect queue is telephonic appointment system. There is no waiting after reaching the place and therefore one can plan his schedule for other works accordingly. Additionally there is option to select day

and time slot convenient for office.

Other well-known innovative idea was to increase the outlet of tooth paste tube that has increased the sales. Banks have pass book printers and highly paid employee remains engaged for the work. Customers can get pass book up dated only during working hours of the bank. But simple innovative idea of providing barcode on pass book and installation of printer in ATM booth, makes the task beneficial to bank as well customers. It is economical to bank as requirement of man power is eliminated and convenient to customers as they get their pass book up dated at any time, thereby avoid uncomfortable exclusive visit to the bank during working hours.

Innovation is up gradation of existing ways and means. It means the ideas that enhance the favorable aspects such as quality, durability, reliability, speed, appearance, convenience, user friendliness efficiency etc. and / or restrict the unfavorable aspects such as wastage of energy, time, space, expenditure and reduction of efforts, maintenance, break down, etc. Innovation is not restricted to science and technology but has scope in any discipline such as management, commerce, administration, technology, production, science, transportation, laws, marketing education, etc. Most of the machines and procedures are developed years before when the technology, facilities and information of today was not available and hence may be the best at that time and continue to be followed till now. But fourth dimension i.e. time has changed and therefore there is enough scope for innovation in all the fields under present scenario. Electricity from Solar, PV and wind mill, regarded as non- conducive few years back but with passage of time now, there are solar and wind farms producing electricity in bulk. Resourcefulness and perseverance is more important for innovation rather than expertise and intelligence.

The innovation starts with feeling that something is not proper in a particular system. There is no way to innovate if everything is appearing to be in order. The disagreement with existing system leads to hunt for alternatives. Outcome of hunt may be superior or

inferior; however the chance for improvement is by this way only. Innovation is possible in any matters such as machine, tools, vehicles, methods, gadgets, process, testing, equipment, purchase, sales, recording, accounting, development, erection, design, Commissioning, operation, formatting, maintenance, auditing, reporting etc.

It is necessary to find out where and what is not proper in the system. This requires detailed analysis of complete system keeping in view the present day technology, facility and information to hit upon any evasion / reconsideration at any point that can result in benefit as above. Various substitutes may be available but one has to adopt the best. This is rather tedious but important phase. Some options may have reverse effect on other aspects. Therefore, each option has to be examined with regards to merits and demerits on other aspects. Efforts for improvement in efficiency of equipment may have effect on cost, but reduction in running cost on account of better efficiency, which may pay back the additional cost, then it is worth implementation.

It has no significance until this worth innovative idea

is implemented. This is the trickiest task, particularly in India, when one has to find concerned authority and convince it for implementation. However, continued efforts may definitely yield results.

It is observed that many people have dissatisfaction against some system while they have to deal with it. In a way they are all beginners for innovation but most of them leave at the stage. Some optimists consider everything is in order and think that existing system is the best. Some pessimists mostly find defects everywhere. However, they do not have even any suggestion for improvement. Some people have suggestions but no temperament for work. Ultimately only very few reach to the concrete solution. Wise man always keep eyes and ears open and may pick up such defect and/or raw idea from open sources, have dialogue with subject related imaginative minds and resolve the best and take up for implementation.

Let us all work for innovation and betterment of equipment and system

ND Makwana
nd_makwana@yahoo.co.in

List of New Members during Quarter

Sr. No.	G.R. No.	Name	Member	Sr. No.	G.R. No.	Name	Member
1	2184	Davda Kirtan M	Stud. Member	7	2190	Dave Nisarg P	Asso. Member
2	2185	Brahmbhatt Vivek R	Stud. Member	8	2191	Trivedi Hetal H	Life Member
3	2186	Mohite Sangram R	Life Member	9	2192	Kotak Veena A	Member
4	2187	Agravatt Hardik M	Insti. Member	10	2193	Soni Chirag R	Member
5	2188	Soni Chirag J	Stud. Member	11	2194	Thakur Ajit V	Life Member
6	2189	Mengde Krutarth R	Life Member				

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The SPE(I), Vadodara Chapter thanks Er. KG Patel & Er. KB Sheth.

SPE(I), Vadodara Chapter further expects similar response from members as well as well wishers.

CHANGE - PACE & DEGREE OF CHANGE

We may be aware of the course of life from the incidents that take place in our lives. What existed yesterday may vanish today and what is present today, may disappear tomorrow.

'Circumstances' and 'Time' are not at our disposal. They keep "Changing". Having known this important fact, how we are going to mould our lives and surroundings, beneficial to all of us, and also at the same time without any detrimental effects. Enlightened souls point out that God has created a beautiful universe with a number of facilities for the welfare and benefit of 'man'; also He has bestowed enough intelligence on us to develop as per our own choice. It is, therefore, up to us to discriminate use the facilities (resources) and have a harmonious life without upsetting the natural forces that has been created by the CREATOR for balancing the smooth functioning of the Universe.

Whether we take it or not, 'Change' is inevitable - Change is life - Stagnancy is death. There is no two opinion of 'Change', but to be realistic of their moral and ecological implications.

Air/water pollutions, Climate changes, environmental warnings, earthquakes etc. are all due to uncontrolled and rapid development with scant respect to maintain sustainable growth.

When we talk of VIKAS (development), let us therefore take proper and smooth steps at a regulated speed - pace and degree. It is however, easy to state but difficult to follow the advice i.e. initiating by ourselves and leading others from the front.

Hope our mother Planet - Earth remain unscathed and attain its pristine glory.

Thought for the day

Life is the most difficult exam.

Many people fail because they try to copy others - not realizing that everyone has a different question paper.

" Everything has its beauty, but not everyone sees it

" Valuables are valuable but, values are invaluable.

" The roots of education are bitter, but the fruit is sweet.

" Love does not consist in gazing at each other, but in looking together in the same direction.

" Common sense is calculation applied to life.

Life Explained

On the first day, God created the dog and said; "Sit all day by the door of your house and bark at all who come in or walk past. For this, I will give you a life span of twenty years". The dog said; "That is a long time to be barking. How about only ten years and I will give you back other ten?" So God agreed.

On the second day, God created the monkey and said; Entertain people, do tricks, and make them laugh. For this, I will give you a twenty years life. The monkey said; "That is a pretty long time to perform. How about I give you back ten like dog did?" And God agreed. On the third day, God created the cow and said; You must go to the field with the farmer all day long and suffer under the sun, have calves and give milk to support the farmer's family. For this, I will give you a life span of sixty years. The cow said; "That is kind of a tough life you want me to live for sixty years. How about twenty and I will give back the other forty?" And God agreed again.

On the fourth day, God created man and said; Eat, sleep, play, marry and enjoy your life. For this, I will give you twenty years. But man said; "Only twenty years ? Could you possibly give me my twenty, the forty the cow gave back, the ten the monkey gave back and the ten the dog gave back; that makes

eighty Okay? Said God," you asked for it.

So that is why the first twenty years we eat, sleep, play and enjoy ourselves. For the next forty years, we slave in the sun to support our family. For the next ten years, we do monkey tricks to entertain our grandchildren. And for the last ten years, we sit on the front porch and bark at every one.

It matters in Life

- ✳ If you stand for a reason, be prepared to stand alone. If you fight for a cause, fight even if there is no hope. If you fall on the ground, fall as a seed that grows back to fight again.
- ✳ Never strive to make your presence noticed. Just make your absence felt. Live life to express and not to impress.
- ✳ Smile and tears - do you know, sometimes tears become special than a smile? Smile can be given to anyone, but tears are only for those people who never want to lose.
- ✳ Our eyes are put in the front of our heads, so we look to where we are going, not to where we have been.
- ✳ If road is beautiful, then worry about destination, but if destination is beautiful, then don't worry about road.
- ✳ Reflection cannot be seen in boiling water. In the same way, truth cannot be seen in a state of anger. One must analyze before one finalizes.
- ✳ True wealth is not a matter of bank accounts and assets. It is the values we live and share as well as the people we keep in touch with care.
- ✳ Don't mix bad words with mood. You will have many opportunities to change your mood, but you will never get the opportunity to replace the words you spoke.
- ✳ There is a reason why windshields are bigger than rear view mirrors. It is because the view ahead is

more important than the view behind. As far as our road trip in life is concerned, the promise of the future is always better than the pain of the past.

SPE - treats all without discrimination

Is it possible for the rose to say, "I will give my fragrance to the good people who smell me, but I will withhold it from the bad?" Or is it possible for the lamp to say, "I will give my light to the good people in the room, but I will withhold it from evil people?" Or can a tree say, "I will give my shade to the good people who rest under me, but I will withhold it from the bad?". SPE (I) carry the images of rose, light and tree all rolled into one.

Wisdom Evergreen

- If heaven made him, earth can find some use for him.
- A broom is sturdy because its strands are tightly bound.
- You know what to say, but you do not know what you might be told.
- Quarrels end, but words once spoken never die.
- Ripe fruit falls by itself, but it doesn't fall in your mouth.
- A habit is first a wanderer, then a guest and finally a boss.
- True charity looks at the need and not at the cause.
- When God wishes a man well, He gives him insight into his faults.
- Even in paradise, living all alone would be hell.
- If you lie and then tell the truth, the truth will be considered a lie.
- Praise makes the good man better; blame makes the bad one worse.



Pictures of Paper Presenters and Speakers during National Seminar on S/S Engineering 10-11 Oct 2014

AGM of SPE(I) Vadodara Chapter and Cultural Programme (14 Sep 2014)



Satya Narayan Pooja on the Foundation Day of SPE(I) Vadodara Chapter Dt. 4 Oct 2014



Felicitatation of SPE(I) Vadodara Chapter Members during AGM (14 Sep 2014)



Inaugural Session of National Seminar on S/S Engineering at Vadodra (10 Oct 2014)



Dias



Lighting of Lamp



Er. PP Wahi, CBI&P



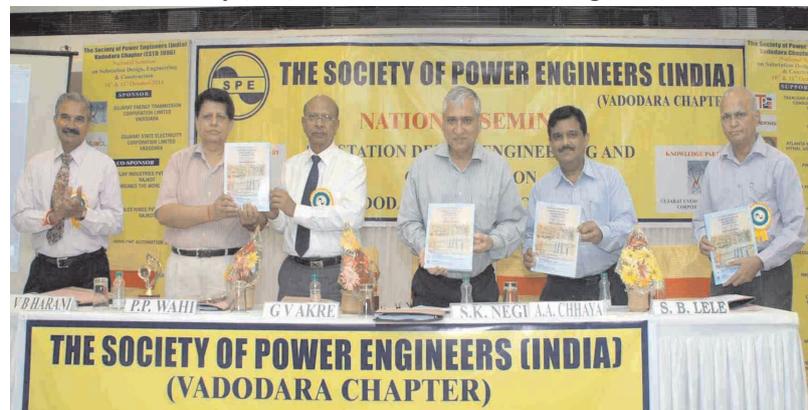
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Inauguration of Seminar Proceedings



August Gathering

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GF-60, Avishkar Complex, Old Padra Road, Vadodara - 390 015.

Ph. : 0265-2324818

**E-mail : soham.technologies@yahoo.in
sohamtechnologiesbaroda@gmail.com**

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From :
The Society of Power Engineers (India)
Vadodara Chapter
FF-48, Avishkar Complex,
Old Padra Road, Vadodara - 390 007.

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