

Dr. Mira Parasuram is the Managing Director of KAPPA ELECTRICALS, a pioneering manufacturer of Instrument Transformers, established in 1966.

Dr Mira has more than 33 years' experience in the electrical industry. She is a graduate of the College of Engineering, Guindy, Chennai, with specialization in high voltage engineering.

She has worked in all areas in KAPPA, and has set up the quality and operation systems of the group, apart from driving international sales. She has authored KAPPA's handy reference manual on LV and MV Instrument Transformers, and is now preparing its 6<sup>th</sup> edition.

She was the Vice-Chairperson of the IEEMA Instrument Transformer Division from 2020 to 2022, and is the present Chairperson of the Instrument Transformer Division.

Along with IEEMA division members, she has organized the 5<sup>th</sup> International Technical Conference on Instrument Transformers in Mumbai in Feb 2024.

She has presented papers on Instrument Transformers – Design, Construction, Testing and Applications in various forums, including IDEMI, Mumbai, TECH \_IT conferences, and IEEMA forums, and international forum such as ASEAN MNE, Kuala Lumpur in 2022

She is also the Founder - Chairperson of the Indian Electrical and Electronics Manufacturers' Association (IEEMA) Women in Power Committee and has send up an industry-wide internship programme for female engineers .

1. Name: Mr. Pramod Govind Rao (Mobile No. 9673333926, Email: pramodrao24261@gmail.com)



2. Brief Personal Details:

- a. Qualification: BE (Electrical), Passed out in 1981 from Govt. College of Engineering, Pune (Also known as COEP)
- b. Total Experience: 42 Years
  - i. Service Experience: 35 Years in Crompton Greaves Limited;
    - Place of Work in CG: 1981 to 2007- Nashik, 2007 to 2014: Aurangabad  
2014 to 2016: Nashik
  - ii. From July-2016 till date , as Freelance Consultant to Instrument Transformers & Condenser Bushing Manufacturers in India (Design to Manufacturing to Business).
  - iii. Member of CIGRE WG A3.42- Failure analysis of recent AIS instrument transformer incidents

3. Focussed Contributions:

- a. Electrical Insulation & Electromagnetic Design.
- b. High Voltage & High Current Testing and analysis of results.
- c. Product Failure Analysis at Site and recommending Corrective & Preventive Actions.
- d. Data Based Analysis & Six Sigma Improvements.
- e. Productionisation: New Products, New Facilities.
- f. Development of Material Sources.
- g. Training of Engineers in Technical Aspects.

4. Technical Papers (Few Examples):

- CIGRE Session 2002: Paper 15-108 - EHV Current Transformers - Failure Mode Analysis & Evaluation Leading To Corrective And Preventive Actions For Reliability Enhancement.
- CBIP-2019: Current Status of Transformer Bushing Technologies in use with their relative Advantages, disadvantages and overview of Health Monitoring Practices adopted by utilities.
- CIGRE Colloquium (New Delhi)-2019: Transformer Bushings: Current Technology Trends, Developments & it's relevance in Monitoring of Bushings in Service.
- CBIP-CIGRE-2023: National Conference on Failure Analysis of Power Transformer/Reactor (Under the aegis of CIGRE NSC A2 on Power Transformers and Reactors)- Use of DFR (Dielectric Frequency Response) for Measuring and Assessing Quality of Transformer Bushings

5. Technical Sessions / Seminars / Webinars:

- Igniting Power Engineers – Feb 2021.
- Siemens, India – Apr 2021.
- IEEMA, Mumbai – July 2021.
- Tech IT: July 2021- OIP Insulation.
- POWERGRID, Gurgaon – Oct 2021.
- Torrent – Dec 2021.
- Adani – Jan 2022.
- GETCO, IPPs, T&D – Mar 2022.
- MPPTCL- Aug 2022.
- POWERGRID Site Engineers– Aug 2022.
- Tata Power- Sep 2022.
- Dasotech-Trafo-360-Italy- Sep 2022.
- NWET-Bhubaneshwar Nov 2022.
- POWERGRID AM Engineers- Apr 2023.

**General Biodata**

- **Name: Vrajesh J Desai**
- **Date of Birth :16 -05-1954**
- **Qualification: B.Tech. (Electrical) from M S university, Diploma in German Language.**
- **Superannuated from ABB in yr.2012, as AVP, EDM after 35 yrs. of service in Switchgear Design and Development department.**

**Past Experience & Expertise:**

1. Worked in ABB LTD for more than 35 years: - worked for development & Design (Type)Test of Instrument Transformer (IT) & Transformer Bushings.
  - Experience of designing & type testing of CT up to 800(765) kV & CVT up to 400 kV rating
  - Had Membership in BIS 38 committee during year 1995 to 2000 for ABB
2. **Foreign Visit:** Visited CESI Italy in 1987 for CB Type Testing & ABB Sweden, in 2003 Ludvika for development of OIP Transformer Bushings & 400 kV CT.
3. Worked in **M/S LUSTRE ENGINEERING CORPORATION**, Navi Mumbai, Rabale as Head-Design & Development of High Voltage Instrument from Aug 2012 to Jun 2015. Remained IEEMA member for LEC from year 2013 to 2021.
  - Designed, erected & commissioned 800 kV, PD free EHV lab in 2013, 5th in India, having "Zero ambient noise level". It is 5th Lab of this kind in India. **The Lab got ISO 9001 in 2014 and NABL accreditation in year 2015 under guidance of self.**
  - Developed 145/245/420 voltage class CTs with full Type testing in conformance with IEC-61869-Part 1 & 2 in year 2013 & 2014.
4. **Membership/Representation:**
  - Past Chairman for IEEMA for both IT product & TECH IT, Instrument Transformer Committee, Conducted 2010 TECH IT international Seminar in Mumbai as representative of ABB
  - Recently participated as speaker in TECH IT Webinar in July- Aug 2021.
  - Presently engaged in IEEMA's activity of Standardisation of Specification, Condition monitoring standard of Instrument Transformer, Product Manual preparation.
5. Expert lectures on Instrument Transformer Design & Testing at ERDA, SVIT, VIT & Parul & Navrachana university for their Testing engineers and final year (E E) students as well as faculties, respectively.

Vrajesh Desai