

2-DAY CONFERENCE ON
“DESIGN, ENGINEERING, ERECTION,
TESTING, COMMISSIONING,
OPERATION & MAINTENANCE OF
THERMAL POWER PLANT”

**AT FEDERATION OF GUJARAT INDUSTRIES (FGI),
GOTRI - SEVASI ROAD, GOTRI, VADODARA, GUJARAT.**

21 & 22 MAY 2026



	<p>Jointly Organized By: THE SOCIETY OF POWER ENGINEERS (I) VADODARA CHAPTER & GUJARAT STATE ELECTRICITY CORPORATION LTD. - GSECL</p>	
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ORGANIZING COMMITTEE:

Er. Somes Bandyopadhyay, MD, GSECL,
Er. D. H. Vasava, Executive Director, GSECL,
Er. P. H. Rana, Ex. Technical Director, GUVNL
Er. M R Tilwalli, Chairman SPE (I) Vadodara

The Society of Power Engineers (India) Vadodara Chapter

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Introduction and Announcement:

The Society of Power Engineers (India) is an apex body functioning under the aegis of Central Board of Irrigation & Power (CBIP), New Delhi, a National Organization engaged in providing an opportunity to the Students, Academicians, Practicing Engineers and Individuals to update knowledge in Electrical and allied Engineering as well as supporting activities of betterment in the Power Sector and Industries. The Head Quarter of SPE (I) is in New Delhi with Chapters all over the country. The Vadodara Chapter of SPE(I) is the most prominent one with a total enrolled membership of about 2460, which includes Student Members, Life Members, Fellow Members and Institutional Members. These members are from Power Utilities, Electrical Equipment Manufacturers, Multi-National Companies / Industries, Public Sector Enterprises, Academicians (Colleges and Universities) as well as Consultants from Civil, Structural, Electrical and other branches of Engineering. The Chapter regularly organizes monthly Lecture Sessions, Seminars, Symposiums, Conferences and Training Programs for the benefit of all the Members as well as for Industries and Academic Institutions. The main activities of the Chapter is to organize Seminar, Workshops, Conferences and Technical Lectures, in Vadodara. Also conduct technical programs for the benefits of the students like Drawing Competitions, Debates, Exhibitions, etc. The center is also concerned with the Society of Power Engineers Vadodara Chapter to organize joint programs.

The SPE (India) Vadodara Chapter jointly with Gujarat State Electricity Corporation Ltd., Gujarat is going to organize a “2-Day Non-residential Conference on “DESIGN, ENGINEERING, ERECTION, TESTING, COMMISSIONING, OPERATION, & MAINTENANCE OF THERMAL POWER PLANT” on 21-22 May 2026 –at FGI Auditorium, Gotri-Sevasi Road, Gotri, Vadodara.

The intention of this Conference is to upgrade the knowledge of the participants regarding the involvement of Electricity Generation using Fossil Fuels (Coal, Lignite, Gas, Diesel, LDO, HFO, etc.). The aim of the Conference is to share the experience of experts from various Power Generating Companies with the participants. The SPE (I) Vadodara Chapter & GSECL Vadodara, therefore, deemed it fit to organize a Conference on this topic.

The Speakers in this Conference are likely to be renowned Practicing Engineers from Power Generation Utilities, Equipment Manufacturer, Suppliers of Fuel, Academy, Private Sector, Power Generating Companies, EPC & Other Construction Companies (Civil, Mechanical, Electrical, Instrumentation) Consultant Agencies, etc. About 200 delegates are likely to participate in the conference from different parts of the country. They may include MNCs, Power Generating Companies, Captive Power Plant Holder, Small Scale Industries involved in manufacturing of Auxiliaries & Ancillaries, Power Generating Equipment Manufacturers, Consultants, Academician and Individuals. We are sure that the contents of the conference shall be beneficial to the participants.

A. Who should attend?

- Engineers from State Power Generation Utility & Central Power Generation Utility.
- Private Companies involved in Power Generation.
- Thermal Power Plant EPC Contractors.
- Thermal Power Plant Equipment Supplier - OEM
- Consultants in the above industries.
- Personnel from Steel Plant, Oil & Gas whose have Captive Power Plant etc.
- Engineers working in major Industries responsible for supply of Auxiliaries & Ancillaries.

- Students and faculty members from Academy
- Personnel working in Automation /Instrumentation Industries.
- Power Plant Instrument Manufacturers and users
- Power System Operators,
- Personnel from Fuel (Coal, Lignite, Gas, Diesel, LDO, HFO, etc.) Suppliers.

B. Topics to be covered:

- Feasibility Studies & Project Planning of Thermal Power Plant
- Design & Engineering of Thermal Power Plant (Main Plant & Balance of Plant) – Civil, Mechanical, Electrical, Instrumentation, etc.
- Design Aspects of LV-MV Switchgears, Illumination, HVAC System, etc. for Main Plant and BOP.
- Metallurgical aspects in Thermal Power Plant (Materials selection, performance & failure prevention in high-temperature and corrosive environment)
- Construction and Project Management i.e. EPC
- Maintenance Strategies and Technologies of Thermal Power Plant
- Control & Instrumentation in Thermal Power Plant and their Latest trend including Automation, SCADA, IOT, AI, etc.
- Energy Efficiency of Thermal Power plant
- Implementation of supercritical and ultra-supercritical technologies for enhanced efficiency.
- Operational Excellence & Performance Optimization Include:
 - Best operating practices are to improve plant availability, load factor, and heat rate.
 - Flexible operation of unit (frequent starts / stops, load ramping) for integration of entire Renewable Energy.
 - Optimizing Auxiliary Power Consumption (APC) and Energy Efficiency practices.
- Safety Standards and Regulations including Electrical Safety
- Fuel Systems and Environmental Compliances.
- Conditioning Monitoring of various Plant Equipment
- Modernization and Life Cycle Management
- Renovation and Modernization (R&M) of existing Power Plant units
- Once Through Boiler Dynamics: Operational strategies for sliding pressure, water-wall protection and start-up curves in drum-less supercritical units.
- Advanced Steam Chemistry: Implementation of Oxygenated Treatment (OT) to prevent flow accelerated corrosion, a critical requirement for 800 MW units.
- Supercritical Metallurgy (P91/T91): Specialized welding, post-weld heat treatment (PWHT), and creep-life assessment for high-pressure alloy piping.
- Turbine Stress & Bypass Management: Managing thermal stresses during cyclic loading and "Hot /Cold" start-up curves for large turbine frames.
- Predictive Maintenance for Thermal Assets Using Machine Learning to analyze sensor data for early detection of boiler tube leaks and turbine vibration anomalies.
- Dispute Resolution and Contract Closure
- CLIMS (Contractors' Labor Information Management System) Understanding required as a Maintenance Engineer.
- Auto Generation Control (AGC) as per IEGC (Indian Electricity Grid Code) Rule.
- Various Grid Codes and their implementation in Generating Units
- Any other topic related to the theme of conference

The technical papers are also invited from the authors. The last date of receipt of full length paper is **30th April 2026**. **However, any person / delegate / organization would like to share their experience / case study in the Conference he/she may be accommodated on 2nd day last session, as per availability of time.**

C. Date and Venue

The Conference is scheduled on **21-22 May 2026** at Federation of Gujarat Industries (FGI), Gotri-Sevasi Road, Gotri, Vadodara. The venue is about 9 km from Vadodara Railway Station and about 15 km from Vadodara Airport.

D. Tentative Programme:

Day – I, 21 May 2026 (Day)	Day - II, 22 May 2026 (Day)
08:00 to 09:30 Hrs. Hi-Tea & Registration	08:00 to 09:00 Hrs. Hi-Tea
09.30 to 11:00 Hrs. Inauguration	09:00 to 10:30 Hrs. Technical Session IV
11:00 to 11:30 Hrs. Networking Tea Break	10:30 to 10:45 Hrs. Networking Tea Break
11:30 to 13:00 Hrs. Technical Session I	10:45 to 13:00 Hrs. Technical Session V
13:00 to 14:00 Hrs. Networking Lunch Break	13:00 to 14:00 Hrs. Networking Lunch Break
14:00 to 15:30 Hrs. Technical Session II	14:00 to 16:00 Hrs. Technical Session VI
15:30 to 15:45 Hrs. Networking Tea Break	16:00 to 16:15 Hrs. Networking Tea break
15:45 to 17:30 Hrs. Technical Session III	16:15 to 17:00 Hrs. Technical Session VII & Concluding Session

E. Sponsorship:

The Conference provides an effective opportunity for companies to promote their products / services to a focused audience, besides networking with utility engineers during tea /coffee and lunch interval. Sponsors are assured of full visibility with printing of their names on banners and other publicity material related to Conference and will have the privilege of distribution of their products /pamphlets /catalogues during the Conference. Sponsors will also have the privilege of sending delegates who will be exempted from payment of registration fee as indicated here under:

Category of Sponsor	Fee in Rs.	Free Delegates	Free Advertisement in Proceedings
Platinum Sponsor	Rs. 3,00,000 + GST @ 18%	5 Nos.	Full Page Color
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F. Advertisement:

Organization can also give only advertisement in the **PROCEEDINGS** being published. The Rates for advertisement in the proceedings are as under:

Sr. No.	Particular	Amount in Rs.
1	Full Page Color	Rs. 10,000 + GST @ 18%
2	Full Page Black and White	Rs. 5,000 + GST @ 18%

G. Registration

Prospective participants desirous to attend the Conference may register themselves either by email or sending the duly filled in registration form by down-loading from the website of Society of Power Engineers, Vadodara. The filled in form may be sent to the **Society of Power Engineers (I), 414-415, B**

–Wing, Monalisa Business Centre, Near Samanvay Saptarshi Complex, Manjalpur, Vadodara 390 011. The registration fee mentioned below may be paid in advance latest by 19th May 2026.


Category of Delegate	Amount & Description
Utility & Industry	Rs. 5,000/- + GST @ 18% per delegate
Academy (Students / Faculty)	Rs. 1,000/- + GST @ 18% per Student or Faculty (Individual).
SPE(I) / IE(I) Member	Rs. 1,000/- + GST @ 18% per member registering in individual capacity

There will be Presentations of Technical Papers & case studies spread over in 7 Technical Sessions in the Conference including interactions between Speakers and Participants.

H. Payment and Correspondence:

The modes of payment are as under:

1. By ONLINE OR Cash OR Sending a crossed cheque drawn in favor of “THE SOCIETY OF POWER ENGINEERS” to our office address mentioned below OR Transferring the amount via net banking to our bank account as per bank details mentioned below, OR
2. By directly depositing the cheque drawn in favor of “THE SOCIETY OF POWER ENGINEERS” in any branch of Bank of India with an intimation to SPE (I) Vadodara Office.
3. Bank Details

Address:	The Society of Power Engineers (I), Vadodara Chapter 414-415, B –Wing, Monalisa Business Centre, Near Samanvay Saptarshi Complex, Manjalpur, Vadodara 390 011	QR Code 
Account Name:	The Society of Power Engineers (India)	
Bank Name:	Bank of India, Alkapuri Branch, Vadodara – 390 007	
S/B A/c No.	250110100026520	
IFSC Code:	BKID0002501	
UPI ID	boim-250105626520@boi	

Note: The screenshot of payment made through NET / UPI / ONLINE must be forwarded to Er. SM Baxi, Secretary-Finance on WhatsApp Number 9909940562 with details of Name of Organization, SPONSOR /ADVERTISER /INDIVIDUAL, etc.

I. Correspondence Details:

Office of Society of Power Engineers (I), Vadodara Chapter, 414-415, B –Wing, Monalisa Business Centre, Near Samanvay Saptarshi Complex, Manjalpur, Vadodara-390011
e-mail: spevadodara01@rediffmail.com;

J. Contact Persons:

For any further information, you may please contact any one of the following:

1. Er. SM Takalkar, Conference Convener 9925233951, smtakalkarpc@gmail.com
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at FGI, Gotri – Sevasi Road, Gotri, Vadodara
21-22 May 2026 (Tentative)

Registration Form

The Society of Power Engineers (India) Vadodara Chapter (Estd. 1996)
414-415, B –Wing, Monalisa Business Centre, Near Samanvay Saptarshi Complex,
Manjalpur, Vadodara 390 011. GSTN: 24AABAT3247Q1Z4
M- -9328658594 e-mail:spevadodara01@rediffmail.com

(Fill the form in block letters or with type written)

1. Name in full (Er. /Prof. /Dr. /Mr. /Ms.) (Surname) _____
(First Name) _____ (Middle Name) _____
2. Designation _____
3. Name & Address of Organization: _____

e-mail id: _____ Mobile: _____
4. Payment Details:
ONLINE / NEFT / RTGS / Cheque No. _____ Bank _____
for Rs. _____ towards registration fee for delegates/ sponsorship / advertisements /
donation in favor "The Society of Power Engineers (I)".

Place:

Date:

Signature