



INDIA BOILER .COM



PROVIDING COMPLETE TRAINING SOLUTIONS TO THE INDUSTRY

Introducing **India Boiler dot Com** as a knowledge Management network, offering training and consultancy services to the industries. Since its inception in 2000, IBDC has excelled in effective knowledge transfer to the industry and grown from strength to strength. Today, a large number of industries connected to this network are regularly getting the benefit of this platform, through which IBDC is offering technical training and consultancy services to most of them.



MULTI MEDIA TRAINING



HANDS ON TRAINING



TRAINING FOLLOW UP



VIRTUAL CLASSROOM

IBDC has also developed a unique community of industry professionals in the name of Plant Operation & Maintenance Club (www.pomc.info). A state of art web site, developed by us, facilitates interactions among the professionals and offers a common knowledge sharing platform to all the professionals with an access to various experts, Research Institutions and other knowledge management organizations.

Today a strong network of expert professionals in various spheres from different part of our country is one of the core strength of this organization.

THE NETWORK CONNECTING INDUSTRIES



India Boiler dot Com

Providing Complete Training Solutions to the Industry

IBDC have the capabilities and expertise to offer training on:

- Every aspects of steam generation and power generation,
 - Preventive & Predictive Maintenance Programme Development,
 - Condition Monitoring of Equipment,
 - Welding and inspection,
 - Electrical System and safety,
 - Energy Management,
 - Industrial Health & Safety,
 - Environmental Management System (EMS),
 - Implementation of modern maintenance management systems like TPM, TQM, Six sigma, Kaizen, etc.,
 - Behavioral Management topics like 'Motivation', 'Creating a proactive work ethos through attitudinal change', etc.
- and many more.

We are capable of fulfilling every training needs of the Industry

Salient features of our training:

Team work:

There is a harmonious team work behind every session by a faculty. We have a core group of experts comprising senior professionals from different spheres. Once the scope of training is defined and a faculty from our network is identified, the design and preparation of the module is jointly carried out by the selected faculty and the core group. The team is responsible for

- Creating a Training Road map – Based on skills and knowledge analysis for groups or individuals and the need of the industry, suitable training roadmap is designed
- Course material – the course material is prepared by the core team with the inputs from the faculty. A lot of research work goes behind the preparation of a course material
- Delivery Methods – Based on the type of training and level of participants, suitable delivery methods are decided. Training programmes are designed to emphasize the importance of creating “learning situations” rather than “teaching situations”. Considerable personal learning is achieved when candidates are given opportunities to reflect on their values and perceptions and to discuss their experiences with other participants.
- Completion timeline – Considering the depth of the training and the level of participants, optimum period of the training is worked out by the team

Follow Up:

It is essential for any successful training to offer the candidates an opportunity to review and revise aspects of the training and to build on their experience. We strongly believe that the knowledge transfer is effective only when a professional is able to apply the acquired knowledge to decision and actions.

We have designed an exclusive facility in our website through which a follow up arrangement with a specific training is possible. It serves not only as a review and a reinforcement aid, but it allows the participants to share experiences since the last session. In addition, instructors can accomplish more in a shorter period of time after participants implement the concepts and procedures that were previously taught.

The interactive platform at POMC serves uniquely for this purpose.

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Knowledge Transfer Programmes conducted by us:

Sr. no.	Programme Detail
1.	Training Workshop for Utility Engineers - <i>Assessing and Improving Performance of Steam Generation, Distribution and Utilization Systems</i>
2.	Workshop on Maintenance Welding - <i>Procedures, Practices and Safety</i>
3.	Electrical for Non-Electrical
4.	Training on Operation & Maintenance of Boilers
5.	Energy Managers Development Programme
6.	HT & LT Switchgear and Protection system
7.	Workshop for Boiler Operators and Technicians
8.	Electrical for Non-Electrical
9.	Application, Operation and Maintenance of Centrifugal Pumps & Pump Systems
10.	Legal Empowerment for The Plant Executives - <i>Indian Legislations for Line Managers & HR Managers</i>
11.	Training Workshop for Boiler Engineers - <i>Increasing the Analytical capability</i>
12.	Holistic Stress Management and Self-development (<i>With Self-hypnosis / Meditation Training</i>)
13.	Finance for Non-finance Managers
14.	Metallurgical Failure, corrosion and heat treatment
15.	Electrical Safety
16.	Condition Monitoring of Rotating Equipment - <i>Detect, Diagnose, Correct and Prevent machinery problems</i>
17.	Increasing Boiler and Steam System Efficiency
18.	Total Productive Maintenance (TPM) - <i>The first step towards successful implementation</i>
19.	Electrical for Non-Electrical
20.	Maintenance Welding- <i>Procedures, Practices and Safety</i>
21.	Aligning the peoples mind set for maintenance excellence and competitive advantage - <i>A TPM approach</i>
22.	Lubrication & Tribology
23.	Fabrication, Welding & Inspection Basics for Maintenance Engineers
24.	Boiler Engineers workshop - <i>Know 'why' in addition to 'how'</i>
25.	"Boiler Explosion" – <i>A quest for causes and preventions</i>
26.	Critical Analysis of Pressure Parts Failure in Boiler and Remedial action

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Complete Power Plant Training:

We have conducted a comprehensive 31 days training to the newly appointed engineering personnel at **388.5 MW Vemagiri Combined Cycle Power Plant at Rajahmundry, Andhra Pradesh**. The programme covered every aspect of Combined Cycle Power Plant. The programme was conducted under L&T



LARSEN & TOUBRO LIMITED
E & C DIVISION

DATED: 20Jan06

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s India Boiler dot Com, Vadodara designed and conducted a training program for O&M personnel belonging to Korea Power Systems, for 388.5 MW Combined Cycle Power Plant at Vemagiri, Andhra Pradesh; on behalf of L&T - EPC Power.

The training was conducted for approximately 4 weeks at the Plant Premises. The training program included Classroom lectures, group work, exercises, discussions, presentations and equipment walk-downs. India Boiler dot Com engaged experienced faculties to impart the training covering mechanical systems and sub-systems of the Combined Cycle Power Plant. The topics covered are as per enclosure.

The training was conducted in a professional manner maximizing the process of knowledge transfer and the programme received some good feedbacks from the participants.

We express our appreciation & satisfaction with performance of India Boiler dot Com for this training assignment.

PRAVEER CHAKRAVORTY
SR DY GENERAL MANAGER
For LARSEN & TOUBRO LIMITED
E & C DIVISION, VPGL-SITE



LARSEN & TOUBRO LIMITED
E & C DIVISION

List of topics covered in the Training program

- Engineering basics
- Combined Cycle Power Plant Fundamental and Steam Turbine
- HP/IP/LP Bypass system
- Steam systems
- HP/IP/ LP Boiler feed system
- Gas Turbine fundamentals
- HRSG: Overview, Operation and Maintenance
- Condensate system
- Condenser air evacuation system
- Fuel gas and Gas Conditioning system
- CW system, ACW system and CCW system
- River water system
- Raw water system
- Service water system
- Potable water system
- DM Water system
- SWAS
- ETP
- CEMS
- Facility Instrumentation & controls
- Fire Detection & Protection system
- Integrated Combine Cycle Plant Operation
- Factor affecting plant performance and controllable Losses
- Plant maintenance practices
- Diagnostic Maintenance
- Corrective Maintenance
- Aligning the peoples mind set for maintenance excellence and competi advantage - A TPM approach

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Energy Managers Development Programme:

A unique design has been opted for this course by combining classroom training and E-learning together. The course offers an opportunity to learn energy efficient practices so that the participants can identify and quantify energy saving opportunities at their organization.

The uniqueness of this programme offers a thorough concept based learning over a period of two and half months, where the major part of the course is covered through on-line distance learning.

Direct classroom interaction for three days takes care of the remaining doubts of the participants, which is conducted after the completion of the 1st part of on-line session.

The direct classroom training is followed by another online assessment session and interaction.

The course also offers a great coaching opportunity to the aspiring candidates Of 'National Certification Examination for Energy Managers and Energy Auditors', conducted by BEE.

List of Industries who have attended Energy Managers Development Programme:

Sr. no.	Organizations
1.	Anama Energies Pvt. Ltd., Pune
2.	Autocomp Corporation Panse Pvt Ltd., Chakan, Pune
3.	CLP Power India Pvt Ltd, Paguthan, Bharuch
4.	Essar Steel Ltd., Hazira, Surat
5.	Excel Industries Ltd., Rona, Raigad
6.	General Motors, Halol
7.	Grindwell Norton Ltd., Raigad
8.	KRIBHCO Ltd., Surat
9.	Larsen & Toubro Ltd., Surat
10.	Marico Ltd., Jalgaon
11.	Metloni Termo Sanitari (India) Ltd., Pune
12.	Reliance Industries Ltd., Hazira, Surat
13.	Renfro India Pvt Ltd., Nasik
14.	Sumul Dairy, Surat
15.	Tata Power Co. Ltd., Belgaum
16.	Varroc Engineering Pvt Ltd., Pune
17.	Videocon Ind. Ltd., Bharuch

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Workplace basic skill improvement for Boiler Engineers and Operators:

This is one of our most popular courses offered to industry. The training also helps as a preparatory course for the **Boiler Proficiency Certificate Examination (BOE) for the engineers and Boiler Competency Certificate Examination for the operators**. We are regularly offering this training to a number of engineers and operators from some of the major industries as listed below.

The List of the Organizations:

Sr. no.	Organization	No. of candidates
1.	Gujarat Electricity Board	125
2.	GSECL – Ukai TPS	50
3.	Reliance Industries, Refinery Division, Jamnagar	163
4.	Reliance Industries – Hazira Manufacturing Division, Surat	192
5.	IPCL, Dahej	105
6.	KRIBHCO, Surat	25
7.	ESSAR Learning Centre, Surat	18
8.	IOCL, Baroda	40

List of Industries who have attended our in-house knowledge transfer programmes:

Sr. no.	Organizations	Sr. no.	Organizations
1.	Aban Power Co. Ltd.	17.	Atul Limited, Atul
2.	ABB Ltd., Vadodara	18.	Atul Ltd, Ankleshwar
3.	Aditya Birla Nuvo Ltd., Veraval, Gujarat	19.	Aventis Pharma Limited, sanofi - aventis Group, Ankleshwar
4.	Aditya Cement, Chittoregarh	20.	Aventis Pharma Ltd., Ankleshwar
5.	AIMIL Ltd., Vadodara	21.	Bajaj Fashion Pvt. Ltd. Sachin, Surat
6.	Alchemie Organic, Vapi	22.	BALCO, Korba
7.	Alembic Chemicals Ltd., Vadodara	23.	Ballarpur Industries Ltd, Pune.
8.	Alfa Laval (India) Ltd., Pune	24.	Ballarpur Industries Ltd., Bhuj
9.	Alpatan Chemicals Private Limited, Chennai	25.	Bardoli Sugar Mill
10.	Altret Chemicals, Surat	26.	Baroda Sugar Factory
11.	Andhra Pradesh Paper Mills Limited, Rajahmundry	27.	BASF Styranics Pvt. Ltd. Bharuch
12.	Anil Products,Ahmedabad	28.	Beck India Ltd, Ankleshwar
13.	Anupam Rasayan, Surat	29.	Bharat Petroleum Corporation Ltd., Mumbai
14.	Apar Ind. Ltd., Baroda	30.	Bharat Starch Industries Ltd., Baroda
15.	Apollo Tyres Ltd., Baroda	31.	BHEL, New Delhi
16.	Asian Paints, Pthalic Division	32.	Bhilai Steel Plant

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Sr. no.	Organizations	Sr. no.	Organizations
33.	Bihar Caustic & Chemicals Ltd. (Aditya Birla Group), Jharkhand	69.	GE & L&T (Dahej IPCL site)
34.	Birla Cellulosic, Kosamba, Gujarat	70.	GEEPO-LP/SCIL, Jagadia
35.	Birla VXL Ltd. [DIGJAM] – Jamnagar	71.	Gharda Chemicals Ltd., Bharuch
36.	Blue Star Ltd., Vadodara	72.	GIPCL - Mangrol
37.	Brakes India Ltd., Chennai	73.	GLAXO India Ltd., Ankleshwar
38.	Cadila Healthcare Ltd., Ankleshwar	74.	GMR Energy Ltd. Mangalore
39.	Cargill India Pvt. Ltd., Gurgaon	75.	GNVFC, Bharuch
40.	Centre for Advanced Technology, Indore	76.	Godrej Agrovvet, Surat
41.	Chambal Fertilisers And Chemicals Ltd, Kota	77.	Golden Tobacco Industries, Baroda
42.	Choda Leadership Centre, Hyderabad	78.	GPEC, Bharuch
43.	Citurgia Biochemi, Ltd., Surat	79.	Grasim Industries Limited, White Cement Division, Jodhpur
44.	CLP Power India Private Limited, Bharuch	80.	Grindwell Norton Ltd., Mumbai
45.	Core Healthcare Ltd., Viramgam	81.	GSECL, Dhuvaran
46.	Cyanides & Chemicals, Surat	82.	Gujarat Ambuja Export Ltd., Himmatnagar
47.	DCW Ltd. - Soda Ash Division, Dhrangadhra	83.	Gujarat Carbon Ltd., Baroda
48.	Deepak Fertilizers & Petrochemicals Corp Ltd., Mumbai	84.	Gujarat Cement Works, Kovaya
49.	Deepak Nitrite Ltd., Baroda	85.	Gujarat Cycle Limited, Baroda
50.	Diamines Chemical Ltd., Baroda	86.	Gujarat Electricity Board
51.	Dishman Group	87.	Gujarat Gas, Surat
52.	Dr. Reddys Laboratories Ltd, Hyderabad	88.	Gujarat Heavy Chemicals Ltd., Verabal
53.	DSCL, Kota	89.	Gujarat State Electricity Corporation Ltd.
54.	Emerson Process Management-P & W Solutions (I) Ltd., New Delhi	90.	Gujarat Themis Biosen, Vapi
55.	Enmas Andritz Private Ltd., Chennai	91.	Heatex Engineers Co., Surat
56.	Enmas Engenius Projects Ltd., Chennai	92.	Hindustan Coca Cola Beverages Pvt. Ltd., Guntur
57.	Essar Constructions Ltd., Surat	93.	Hindustan Lever Ltd., Jamnagar
58.	ESSAR Steel, Surat	94.	Hindustan Lever - Chorwad
59.	FFE Minerals India Pvt. Ltd, Chennai	95.	HIQ Power Associates Pvt. Ltd., Chennai
60.	Finornic Chemicals (I) Pvt. Ltd., Ankleshwar	96.	Honda Motorcycle & Scooter India Pvt. Ltd., Gurgaon
61.	Friends Salt and Industries Ltd. Kandla	97.	HPCL, Mumbai
62.	FSWAI, Gandhidham, Kandla	98.	HPCL. Vizag
63.	GACL, Baroda & Dahej	99.	Huber Chemicals (I) Pvt. Ltd. - Jhagadia
64.	GACL, Bhatapada	100.	ICI India Ltd. – Valsad
65.	GAIL, Pata	101.	IFFCO - Kalol Unit
66.	Gandevi Sugar Mill, Navsari	102.	IFFCO Ltd., Kandla
67.	Ganesh Sugar Factory, Valia	103.	Indian Rayon, Verabal
68.	Garware Polyester Ltd, Aurangabad	104.	Indo Gulf Corporation Ltd., Bharuch

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Sr. no.	Organizations	Sr. no.	Organizations
105.	IOCL, Gujarat Refinery, Vadodara	141.	NCPL, Bharuch
106.	IOCL, Haldia Refinery, West Bengal	142.	NDDDB, Noida
107.	IPCL, Dahej	143.	Nestle India Ltd., Bicholim-Goa
108.	IPCL, Vadodara	144.	Nestle India Ltd., Ponda
109.	IT Power India, New Delhi	145.	Nestler Ltd., Mumbai
110.	J B Chemical Ltd., Ankleshwar	146.	NFL, Nangal
111.	Jayant Oils & Derivatives Ltd., Vadodara	147.	Nirma Limited, Bhavnagar, Gujarat
112.	JCT Electronics Ltd., Baroda	148.	Nirma Ltd, Alindra, Savli
113.	Jindal Stainless Ltd., Hisar	149.	Nitrex Chemicals India Ltd. Valsad
114.	Jindal Steel & Power Ltd, Raigadh	150.	Nova Petrochemicals Ltd., Ahmedabad
115.	Kamrej Sugar Factory, Surat	151.	NTPC RGCCPP, Kayamkulam
116.	Kanishka Prints - Pandesara	152.	NTPC, Faridabad
117.	Khaperkheda TPS; MSEB, Nagpur	153.	NTPC, Kawas
118.	Kochi Refineries Limited, Ambalamugal, Kochi	154.	NTPC, Power Mgmt Institute, Noida
119.	KRIBHCO-Surat, Gujarat	155.	NTPC-SAIL Power Company Pvt. Ltd.
120.	KSK Energy Ventures Limited, Hyderabad	156.	Nuclear Power Corporation Of India Ltd., Tarapur
121.	Kwality Pulp and Paper Mill	157.	Numaligarh Refinery Ltd, Golaghat
122.	L & T Ltd. - Gujarat Cement Works, Rajula	158.	ONGC, Hajira
123.	L&T Limited, Awarpur (Maharashtra)	159.	P I Industries Ltd, Ankleshwar, Gujarat
124.	L&T, Hazira	160.	Panchmahal Dist. Co-operative Milk Producers Union Ltd. Godhra
125.	LANXESS ABS Ltd., Vadodara	161.	Pandesara Industries Pvt. Ltd., Surat
126.	Lupin Ltd., Ankleshwar	162.	Pandvai Sugar Mill, Pandvai
127.	Lursen & Tubro Ltd. – Powai, Mumbai	163.	Paras Prints Pvt. Ltd., Surat
128.	Madhi Sugar Factory, Bardoli	164.	Parth Electricals, Vadodara
129.	Mafatlal Berlington	165.	Pashupathi Paint Pvt Ltd. - Pandesara
130.	Mafatlal Ind. Ltd., Navasari	166.	Pashupati Prints Pvt. Ltd., Surat
131.	Maharashtra State Power Generation Co. Ltd., Koradi TPS	167.	PBM Polytex Ltd., Petlad
132.	Mangalam Drugs & Organics Ltd. Ltd.	168.	Permal Wallace Ltd., Bhopal
133.	Mangalore Refinery and Petrochemicals Ltd., Mangalore	169.	Pesticides India Ltd., Panoli
134.	Marico Industries, Jalgaon	170.	Petro Fab., Vadodara
135.	Maruti Udyog Ltd, Gurgaon	171.	Phillips Carbon Black, Palej
136.	Modern Petrofils	172.	Phthalo colours & Chemicals Ltd.
137.	N.T.P.C., Jhanod	173.	Pidilite Ind. Ltd., Vapi
138.	NALCO, Damanjod, Orissa	174.	Polyplex Corp Ltd, Khatima
139.	Narmada Chematur Petrochemical Ltd., Bharuch	175.	PowerGen India Ltd., Bharuch
140.	Nathani Paper Mills Ltd.	176.	Pratibha Fabrics Ltd. - Pandesara

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Sr. no.	Organizations	Sr. no.	Organizations
177.	Prayagraj Dying and Print Mills - Pandesara	211.	Sona Industries, Surat
178.	Precimax Industries,	212.	Spectrum Dyes & Chemicals, Surat
179.	Priyanka Processors	213.	Steag Encotec Ltd., Surat
180.	Rachna Art Prints - Pandesara	214.	Sterling Gelatin,
181.	RALLIS India Ltd., Ankleshwar	215.	Sumul Dairy, Surat
182.	Rama News Print, Surat	216.	Sun Pharma - Halol
183.	Ramkrishna Ship Repairing Pvt. Ltd., Mangalore	217.	Sun Pharma Ind. Ltd., Panoli
184.	Rashtriya Chemicals & Fertilisers Ltd., Mumbai	218.	Swastik Intermediate Pvt. Ltd.
185.	Rashtriya Chemicals & Fertilizers Ltd., Mumbai	219.	Syngenta India Ltd., Goa
186.	Reliance Energy, Dahanu, Maharashtra	220.	Tata Chemicals Limited, Mithapur, Gujarat
187.	Reliance Industries Ltd., Hazira	221.	Tata Cummins Ltd., Jamshedpur
188.	Reliance Infocom	222.	Tetrapak India Pvt. Ltd., Pune
189.	RPG Life Science, Ankleshwar	223.	Themis Medicare Ltd.
190.	Rubamin Chemicals, Baroda	224.	ThyssenKrupp Electrical Steel India Pvt. Ltd, Nasik
191.	Rupa Dyeing & Printing Pvt. Ltd., Surat	225.	Tinna Oils & Chemicals Ltd, Latur, Maharashtra
192.	SAIL, Ranchi	226.	Torrent Cable, Nadiad
193.	Saint-Gobain Abrasives, Mumbai	227.	Torrent Power AEC Ltd., Ahmedabad
194.	Sarabhai Chemicals, Baroda	228.	Transpek Silox
195.	Sardar Co-operative Sugar, Bodeli	229.	U.P.S.K.U.P. Ltd., Vyara
196.	Saurashtra Chemicals Ltd., Junagad	230.	Ukai Sugar Mill
197.	Sayan Sugar Factory	231.	United Phosphorus Ltd. – Vapi
198.	SCHENECTADY-BECK I LTD - Ankleshwar	232.	United Phosphorus Ltd., Ankleshwar
199.	Schreiber Dynamix Dairies Ltd., Pune	233.	Valsad Dist Cooperative Milk Producers Union Ltd.
200.	Search – Chem Industries, Jhagadia	234.	Valsad Kand Udyog Ltd
201.	Secure Meters Ltd., Udaipur	235.	VFC Industries Ltd, Halol
202.	Shah Pulp & Paper Ltd. - Vapi	236.	Videocon Narmada Glass Ltd., Bharuch
203.	Shree Cement Ltd, Beawar, Ajmer	237.	Vidya Dairy
204.	Shree Khedut Sahakari Khand Udyog Ltd.	238.	Vijay Tanks & Vessels Ltd., Vadodara
205.	Shree Mahuva Pradesh Sahakari Khand Udyog Mandali Ltd.	239.	Wärtsilä India Ltd, Mumbai
206.	Shree Vadodara District Co op. Sugarcrane Grower's Union Ltd.	240.	Welspun India Ltd., Kutch, Gujarat
207.	Shreeji Prints Pvt. Ltd. - Pandesara	241.	Zandu Chemicals, Ankleshwar
208.	Shriram Alkali & Chemical, Jhagadia	242.	Zydus Cadilla Ltd., Ankleshwar
209.	Siemens Ltd., Vadodara		
210.	Solaris Bio-chemicals, Vadodara		

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Faculty Profiles

(Profiles of only those professional are mentioned below who have attended our past programmes as a faculty. In addition to these professionals, we have more than 300 experienced professionals in the network, with expertise covering many other areas.)



Dr. Rajendra Kumar

B.Sc. Met. Engineering, BHU, M.Met and PhD degrees from University of Sheffield, UK. The University conferred on him in the year 1974 its highest degree of DOCTOR OF METALLURGY – the first on any Indian – in recognition of his polished contributions to metallurgical sciences and technology.

He had been the Director of the National Metallurgical Laboratory, Jamshedpur until 1986 and then Director of the Regional Research Laboratory, Bhopal till 1989. He has carried out more than 500 failure investigations of power plant material whilst at NML and RRL.

Dr. Kumar continues to be professionally consulted in failure and RLA studies and considered to be a leading expert in that area.



Dr. S K Bhawe

B.E. (Mech.), M.E., Ph.D. (Engg.)

Chartered Engineer,

He was General Manager, BHEL R&D, Hyderabad (1976 - 1996). With Larsen & Toubro Limited for six years as Head-Technology & Innovation Centre at Baroda and afterwards as Advisor L&T EPC Power group.

Area of expertise: Trouble-shooting of power plant equipments, life extension studies on hydro & thermal power plants, failure analysis of power plant and Industrial equipment, design of retrofits for modernization and renovation of thermal and hydro-power plants, Solving various problems & malfunctions on fired HRSG, aero-derivative gas turbines.



Mr. S. L. Abhyankar

He is a 1963-graduate in Mechanical Engineering who has more than 40-years long experience in Pumps and Valves.

After serving in different companies in various positions of responsibility, he is a consultant in pumps and valves since 1980.

He has presented a number of papers in National and International Conferences and has authored a number of articles, published in various magazines.

He serves on various technical Committees of Bureau of Indian Standards and has contributed immensely in the formulation of Indian standards.

He is also Hon. technical Adviser with Indian Pump Manufacturers Association since 1986.



Mr. K K Parthiban

B.Tech (Mech) from IIT, Madras, ME (Thermal Engg.)

A consultant for Engineering and trouble shooting of Boilers for Waste heat recovery application, FBC boilers, Municipal waste fired Boilers and Development and improvement of Engineering systems. He is having more than 25 years of experience in this field while working with BHEL, Trichi, Cethar Vessels Limited, Trichi, Thermax Limited, Pune, Vecons Energy Systems private Limited, Trichi and Nestler limited, Mumbai.

Presently he is offering expert consultancy through M/S Thermal systems Hyderabad (P) Ltd, Hyderabad for Boiler Engineering & trouble shooting.



MR. ATUL M RAIZADA; C.ENG., M.I.E., F.I.MAR.E.

His long illustrious career started as a marine engineer on Cargo/ Heavy Lift Cargo Ships & Tanker with Steam Turbine /Motor as Main Engine with Electrical / Electronic Machinery & Refrigeration Systems starting as Junior Engineer and rising to the Chief Engineer from 1964 - 1974. He joined LLOYD'S REGISTER, where he has served in various capacities for 30 years. His responsibilities included Industrial Inspection of Heat Exchangers, Large Cryogenic Storage Tanks (Ammonia, Propylene) Piping System of Carbon, Low Alloy, High Alloy and Austenitic Steels, Boilers, Pressure Vessels & Heat Exchangers, ELL Wharf Cranes, Conveyor Belting, Castings & Forgings, constant monitoring of internal Quality Assurance Systems on the shop floor and sites to ensure smooth functioning laying great emphasis on Inter Personal relationship. Presently he is a Consultant as a Lead Auditor to LRQA.



Mr. Nalinkant N Parekh

Graduate in Electrical Engineering, he retired from IPCL, Baroda as General Manager – Electrical in 2004. He is connected with Electrical Safety since 1982, when delivered his first lecture on Electrical Safety in IPCL. Presently he is connected with Gujarat Safety Council (GSC) for Electrical Audit and lectures on various topics on Electrical Safety. For more than last ten years, he is a faculty for electrical topics (in the evening classes organized by GSC) for Post Graduate Diploma course in Industrial Safety.

He had delivered lectures on various topics of electrical safety, in ONGC, GAIL, Alembic, Sarabhai Chemicals, GEB, Surat Electricity Co, NTPC (Jhanor & Kawas), IPCL Gandhar, IPCL Nagothane, Birla Copper (Dahej), Heavy water, GSFC, Lupin Pharma (Bhopal), RIL (Jamnagar) etc.

He was the committee member (during 1997 to 2004) for BIS, for electrical equipments in hazardous area.

Dr. B. C. Naidu – The founder President of Surat Management Association, did B.Tech and M.Tech in Mechanical Engineering, both from IIT, Kharagpur. He worked for 4 years initially with Birla Group and later with TATA group. He was looking after the turn around management during his 20 years experience in TATA group. For the last 12 years he is associated in the TPM implementation at more than 25 industries in India. He has been awarded 'Jewel of India' by the International Institute of Education & Management for outstanding achievement in the chosen field of activity and also the 'Vikas Rattan' award by the Indian International Friendship Society for enriching human life and outstanding attainments.

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Mr. S. S. Kelkar

Chartered Engineer, Inspector recognized by Chief Inspector of Explosives, Nagpur under SMPV rules, leading boiler expert with wide experience in design and trouble shooting.

Area of Expertise: Boiler Plants including Chemical Recovery Boilers, other Pressure Vessels and Pippings, Firing Equipments for coal, lignite, oil gas, bagasse and black liquor, ESP, Fans, Inspection and Calibration of piping, valves and safety valves.

Mr. S K Tiwari

A well known Power Plant chemistry expert with more than 40 years of experience in the field. He retired from NTPC as Dy. Gen Manager (OS) and now working as independent consultant to various Organizations in the field of Power Plant Chemistry for coal and gas based power stations, conducting and evaluation of plant performance and troubleshooting

Mr. Harcharan Singh

An experienced Technocrat with *Post Graduate Diploma in Mechanical, Electrical Engineering & Metallurgy and MBA (XLR)*, has specialized in plant Productivity Engineering and projects activities.

He was active member of Executive Organizing Committee which arranged two National & International Seminars on "Lubrication and Tribology in Industry", held In Pune.

He one time worked in Lubrication Department, TISCO Works as Asst., Head of Dept., responsible for coordination of total plant lubrication & tribological efforts & its implementation to improve life and condition of Steel Rolling Mills, Blast Furnace & Steel Melting Shop Equipment. He had Compiled a 108 page 'Manual on Lubrication' of Steel Plant Equipment. This is being used by TISCO Technical Institute for training.

He has also undertaken overseas assignments in China, Saudi and Gulf Countries & executed and also attended Overseas Seminar and workshop.

Mr. R. Paraman



Director, Devki Energy Consultancy Pvt. Ltd., Vadodara. B.E. (Electrical) from M.S. University, Baroda. *Advanced Professional Development Course in Energy Auditing* from University of Wisconsin, Madison, USA.. Certified Energy Auditor (Bureau of Energy Efficiency, New Delhi). Specialised in Energy Audits of Industries and Commercial Buildings, with an experience of over 300 energy audits and over 100 training programmes on energy conservation for executives in the industry in the past 20 years. Resource person for development of *Codes & Best Practice Manuals for Bureau of Energy Efficiency, Ministry of Power, Govt. of India* and *Petroleum Conservation Research Association, Ministry of Petroleum, Govt. of India*. Visiting Faculty at Administrative Staff College, Hyderabad, and School of Energy & Environmental Studies, Indore.

Mr. Alope Kumar Chattoraj



MA, Dip.in IRPM, He started his career with CBI and eventually joined IPCL in 1987. From December 1987 to December 2000, he headed the Vigilance Department reporting directly to the Chief Vigilance Officer. He was also responsible in Organizing Preventive Vigilance activities in relation to the expenditure oriented departments like Contracts, Materials etc. and exclusive training for the key personnel in Vigilance and related functional fields.

From 2000 to 2003 he was the DGM (PL)-BC & VP (HR) in Baroda Complex and from August 2003 to March 2005 was Vice President (HR) of Gandhar Complex.

He has conducted number of national level training programmes in Discipline Management, Preventive Vigilance, Industrial Security, Contracts Management, etc.

MR. R RAVI, B.TECH (METALLURGY), M.TECH (METAL JOINING)



His career started with Vijay Tanks and Vessels, Mumbai as an Inspection Engineer, where his responsibilities included shop floor inspection of pressure vessels, heat exchangers etc., apart from carrying out non-destructive testing of weld metals.

He joined M/s D&H Secheron Electrodes Ltd., Indore in the year 1980 and he rose to the position of President - Marketing with the company. He joined M/s Mailam India Ltd in July 2000 as Director-Marketing and took care of their All India marketing activities.

From Jan 2006, he is heading his private limited company A. R. Weldtech Pvt. Ltd., Chennai. This is a Technology-Training-Trading company.

Mr. R P Shukla



He has a rich experience of total 31 Years in the field of plant maintenance, condition monitoring of rotary equipment and vibration analysis. He played active role in the initial stage of setting-up of Petrochemical Management Development Institute at M/s Indian Petrochemicals Corporation Ltd. He was the principal faculty in training the Iranian Engineers, Delegates of various Engineering Institutions all over India and had association for training (classroom/field/on-job) & development of human resources in the field of Rotating Machines for over two decades.

He had been Engineering-Head (Rotating Machines) at Gandhar Complex of IPCL for about six years (from project initiation to commissioning). He has taken voluntary retirement from M/s IPCL in the year 2003.

Mr. S K Arora



Mr. Arora is a mechanical engineer who has retired as Dy. Director – Industrial Safety & Health after 34 years of service in that department.

He was instrumental in preparing Disaster Control Plan for Bharuch and Narmada District as a member secretary of the District Disaster Planning Committee.

Presently, he offers his expertise to the industry as a Labour Law consultant and Management Advisor.

He is also a visiting faculty to Mahatma Gandhi Labour Institute, Ahmedabad and Associated with National Institute of Occupational Health.

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Mr. Dinesh Manubhai Bhatt.

He is an Electrical Engineering professional with more than 35 years in the field. From 1970 to 1976, he was with M/s Calico Mills Ahmedabad and afterwards he had joined Indian Petrochemical Corporation Ltd., from where he has retired as Asst. Vice President (Electrical) in 2005.

During his long illustrious career with IPCL, he has worked with every possible field of Electrical engineering, including being in charge of operation and maintenance of 2x30 MW gas turbines driven generators with HRSG for captive co generation. He was a regular faculty for training technicians, Engineer trainees and plant engineers for IPCL training center, PMDI and Safety center and was discipline Dean for training Center for developing training programs and training modules for trainees recruited for entire Reliance group.

Mr. Uday Kesharao Thakre

Presently working at Koradi Thermal Plant (MSEB) with more than 25 years of rich experience in Power Plant operation. He was on deputation as Deputy Director (Tech) at National Power Training Institute (**NPTI**), Nagpur from 1992 for 1995, where he has been offering lectures in short term courses for senior power plant engineers on steam/gas turbine and its associated system, TPS operation, etc.

Mr. J B Suhag

At present, he is working in Gujarat Ambuja Exports Ltd., as Group General Manager (Power Plant and Utilities). He has acquired a wide experience of AFBC, CFBC, PF, Stoker Fired Boiler, Oil and Gas Fired Boilers having capacity of 10 TPH to 375 TPH including Condensing Turbine, Extraction cum Condensing Turbine, Extraction Back Pressure Turbines having capacity of 2.5 MW to 110 MW while working with Ahmedabad Electricity Company, Birla Copper (Unit of Indo Gulf), Aditya Cement, Chittorgarh and Nova Petrochemicals Ltd., Ahmedabad.

Mr. K N K Murthy

Total 39 years in chemical industry (Fertiliser/Petrochemical) of which 32 years in Safety Profession and rest Quality control (Laboratory Chemist). Retired as head of Safety dept. from Indian Petrochemicals Corporation, Ltd. (IPCL) Baroda on 31st Dec. 2002.

He has a long & rich experience of about thirty years in Safety Management.

IPCL had executed the FIVE STAR HEALTH & SAFETY MANAGEMENT SYSTEM AUDIT of their installation (three times) by BSC and Mr. Murthy was fully associated in coordinating the exercises. The Company could not only get FIVE STAR ACCREDITATIONS but also achieve SWORD OF HONOR award from BSC by competing among world level FIVE STAR certified industries. After retirement he offers consultancy service to industries towards the run up for FIVE STAR AUDIT.

Mr. P L Nigania

He has more than 40 years of rich experience in fire safety. He has retired as General Manager Fire Services at Reliance Industries Ltd from in January 2000.

Before that he has worked as Head of Department in the capacity of senior manager (Fire & Safety) at I.O.C.L, Baroda.



Mr. Sanjay kumar dubey

Manager – Chemistry & Environment and Management Representative of EMS & QMS of Genting Lanco Power (India) Pvt. Ltd., Lanco Kondapalli Power Plant (368 MW combined cycle power plant) in managing power plant's chemistry & environment dept. Organized National Seminar and delivered several expert lectures in seminars/symposia at national level.

Worked as a lead chemist and Environmentalist for more than 17 years in number of coal and gas-based power projects responsible for power station chemistry programs in the area of steam generating system chemistry programs, chemical cleaning & passivation, cooling water chemistry programs, reverse osmosis system, demineralization systems, chemical laboratory activities, unit inspections, long and short term unit storage and recommendations for corrective solutions to prevent damage to equipment associated system and operations. Also responsible for environmental projects for waste minimization, water conservation, waste reclamation, statutory compliances, liaison with PCB's & MOEF and implementation of ISO 14001 & ISO 9001 system in power station.



Mr. M R Shastri

He is a Mechanical Engineering graduate with more than 39 years experience in the field of bearing manufacturing and later in Quality Management.

Initially for 4 years, he was with Antifriction Bearings Co. LONAVLA in Quality & Ind. Engg. Afterwards, he was with FAG Bearings (I) Ltd. for two years as Production supervisor and 15 years in Materials Management.

At present, he is the Chairman and Director of Quality Circle Forum of India and working in Quality Management for the last 18 years.

He is also Free Lance Consultant on TQM / General Management and Bearing technology, Lead Auditor on ISO / QS 9000 Systems and also Visiting Faculty to Rly. Staff College, Engineering Colleges, IAMM and QCFI.



Mr. Ansuman Sen Sharma; India Boiler dot Com - He is a graduate engineer with more than 21 years of experience in Projects, erection and commissioning of utility and power plant boilers followed by consultancy and training on steam generating system. Since 2000, he is involved in creating innovative knowledge transfer methods and conducted more than 100 knowledge transfer programmes on behalf of India Boiler dot Com. He has trained around 800 engineers and operators from the steam generating industries on safety and efficiency enhancement in steam generating system. His grass root approach in connecting fundamental engineering knowledge with operation and maintenance of steam generating system has helped to increase the analytical capability of the participating professionals.

In Gujarat, more than 300 engineers have acquired the BOE certificate under his guidance. He is regularly offering training in that area to most of the major corporate like Reliance Industries, IPCL, KRIBHCO, ESSAR, Gujarat Electricity Board (presently GSECL), IOCL etc. He is also a visiting faculty at NIT, Surat for their final year and PG students of Mechanical Engineering department.

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Mr. Sanjay Shah

He is a Consultant and Business Associates with Ondeo Nalco India Ltd. (Formerly known as Nalco Chemicals India Ltd). A Chemical Engineer with more than 20 years of experience in the field, out of which nearly 15 years in the field of water treatment. He has started his career with Deepak Nitrite Ltd., Vadodara and then after as Production engineer in IPCL, Vadodara. He is associated with Ondeo Nalco India Ltd. since 1991. He is a Member of CII-Environment committee-Gujarat and offering regular lecturers in AMIE-classes and many similar part time professional courses.



Mr. K C Raval

Legal Advisor; Labour Court, Industrial & Tribunal, Gujarat High Court

Mr. K C Raval is a LLB (Sp), MLW, LLM, with a rich working experience in the field of Industrial relations & Labour laws. He had been working for organization like Sarabhai Technological Development Syndicate, National Dairy Development Board & Atul Products Ltd.

He is in the legal profession since 1984 and has been attending Labour Court, Industrial and Tribunal, Gujarat High Court and Civil Courts.

Mr. C R Ananda Rao:

An expert from Refinery Process Industries with more than 39 years of experience in the field. He retired from IOCL – Gujarat Refinery as Dy. General Manager (Production) in 2004, after which he was the over all in charge of the commissioning of South East Asia's biggest Hydrogen and DHDT plants built by L&T at Panipat Refinery for one year. During his service with IOCL, he has also worked as Joint Director (Technical) with Oil Coordinating Committee (OCC) - Ministry of Petroleum and Chemicals and also worked as Adviser – Planning for NNPC, Port Hartcourt Refinery, Nigeria, under PII programme

Mr. P M Shah

He joined Gujarat Electricity Board (GEB) in 1964 and completed 35 years service in generation, Transmission, Distribution, Rural Electrification, Relay, Meter Testing Laboratory etc. He had Worked as EE (Testing) for testing and commissioning of Relays / Meters protection of Generation upto 210 MW, Transformers upto 500 MVA and lines upto 400 KV at different power stations and EHV substations of GEB for number of years. Worked at Wanakbori Thermal Powr Station from 1982 to 1990. All Electrical Commissioning Activities right from bumping of 6.6 KV motors, 220/400 KV switch yards, GTS, ICT, lines upto synchronizing of 210 MW units No. 1 to 6. He retired as Chief Engineer, Generation at HO.

Ashis R Bandyopadhyay

Mr. Bandyopadhyay had been the General Manager, with Birla Group of Industries, for their Air Conditioning Corporation Ltd., Calcutta unit. He was the Divisional Head for Industrial Fans & related systems.

He had been with M/S. Best & Crompton Eng. Ltd, an Internationally renowned company (a part of UB Group), at their Ahmedabad Unit (Air Control & Chemical Engineering. Co. Ltd.) as Dy. General Manager responsible for the Product Group

(Fans & Related products & systems)including Application Engineering, All India Marketing as Divisional Head, reporting to the Managing Director (from March 1986 to October 1995).

Presently Mr. Bandyopadhyay is working as an Independent Engineering Consultant.



Mr. A.V. Dinesh

Director, Devki Energy Consultancy Pvt. Ltd., Vadodara. B. Tech (Electrical) from University of Calicut; M. Tech (Energy Management) from School of Energy & Environmental Studies, Indore. Certified Energy Auditor (Bureau of Energy Efficiency, New Delhi). Specialised in Energy Audits of Industries and Commercial Buildings, with an experience of over 200 energy audits and over 50 training programmes on energy conservation for executives in the industry in the past 10 years. Chief resource person for development of *Codes & Best Practice Manuals* for *Bureau of Energy Efficiency, Ministry of Power, Govt. of India* and *Petroleum Conservation Research Association, Ministry of Petroleum, Govt. of India*. Visiting faculty at FICCI, New Delhi.



Mr. K. N. NAIK

BE (Chemical) from M.S. University, Vadodara and P.G.D.B.A. from I.I.M, Ahmedabad.

He was holding the position of General Manager (Finance) when he retired from Indian Petrochemicals Corporation Ltd., Vadodara in 2003

During his 28 years of experience in that organization, he acquired expertise in the areas of Project planning, formulation & execution, Budgeting & MIS, Operations and Materials Department and Marketing Finance.

He has acted as internal faculty in various training programs such as "Supervisory Development Program" and 'Finance for non-Finance Executives" and as a member of the Working Group on Career Development, and Promotion Policies set up by Management.

From July 2003, he has worked for two years with "Centre for Fuel Studies and Research (CFSR)" as Director and core resource person. At present he is working as Financial Management Consultant.



Mr. Suresh H Shah – A first class proficiency engineer with nearly 35 years of rich experience in utility and power boilers. He has retired from Deepak Nitrite Ltd. as Dy. General Manager, where he was in charge of operation and maintenance of utilities and power plant and at present he is working as an individual consultant. During his long career, he has served with Indian Rayon, Cellulose Products of India Ltd., Camphor and Allied Products Ltd., Armour Chemicals (Lupin Group), Darshak Ltd. (Alembic Group), where he had extensive experience in working with various small and medium sized industrial boilers of IAEC, Nestler, IBL, ISJT, etc. He has also spearheaded the planning and project execution of 2.8 MW power plant and successful fuel conversion of all utility boilers at Deepak Nitrite.