

## Dr. P.P. MITTAL

### *Profile*

Dr. P.P. Mittal, PhD, is a retired Executive Engineer from DHBVN (a Power distribution company of Haryana) where he served for 37 years and played a major role in improving efficient operation of Distribution Company.



In his endeavor to take forward the cause of Energy Efficiency in the County, consequent to his superannuation, passed the National Certification Examination for Energy Auditor's Conducted By BEE and subsequently was accredited an Accredited Energy Auditor. He founded Proprietorship Company **M/s Energy Engineers** on 21<sup>st</sup> Feb 2009 and Private Limited Company "**M/s A-Z Energy Engineers Private Limited**" since May 2012 as Director, with the aim to provide clean energy solutions, energy & power sustainable consultancy, energy management services for commercial, industrial & residential establishments. Both Companies are **ISO 9001:2008 certified**

Dr. P.P. Mittal, PhD has also attended ISO 50001 training and has completed **E-course on Green productivity and management System "ISO 9001, ISO 14001, ISO 14051, ISO 27001, ISO 26000, OHSAS 18001 from APO Tokyo**. He is also an **IGBC Accredited Professional for Green Buildings** and one of the **Compliance Auditors for REC** mechanism in pan India, out of total 10 auditors empanelled by CERC.

He is performing all kind of Energy related works including Demand Side management, Solar Consultancy, Efficiency in Power Distribution System & conducting regular Energy Audits.

### *Energy Conservation Projects Completed*

Since its inception following ENCON projects had been accomplished by him:

- Energy efficiency project by HAREDA (Haryana Renewal Energy Department) for conducting Baseline/walk-through energy audits in 5 districts of Haryana with 40 nos. industries cluster-wise in each district totaling 176 nos. industries walk-through energy audits.

- Consultancy in **Solar Power** including the preparation of DPR and grid connectivity **under JLNNSM scheme of Govt. of India in 2010-11)**
- Conducted baseline Energy Audits under PAT Scheme of Designated Consumers scattered at Allahabad, Namrup (Assam), Raipur, Bareilly, Babrala, Surat, Vadodara, Ahmdabad etc. under National Mission on enhance Energy Efficiency announced by Prime Minister of India in 2008.
- Wide range of detailed, Investment grade and Data Management Energy Audits in NCR area including Gurgaon, Kosi-kalan (U.P.) Noida (U.P.) Delhi, Faridabad etc.
- Carried out the impact assessment of Solar Energy Projects.
- Conducted detailed Energy Audit of many schools in Gurgaon & Faridabad districts under the project of "**Bal Urja Rakshak Mission**" of HAREDA
- Important projects of Energy Audit carried out were: Mostly Hospital in NCR i.e. Sir Ganga Ram, St. Stephens, RML Hospital, Safdarjung Hospital, SSK Hospital, New Delhi Railway Hospital, Old Delhi Railway Hospital,
- Completed the World Bank projects through SIDBI, UNDP Projects of Railway (Carried out : Energy Audit of C/W Bhopal, railway station Kota, railway station Lucknow, Railway Hospital Hyderabad & GM Office Hyderabad).
- Conducted Detailed Energy Audit in all DPS Society Schools numbering 10 at Delhi & 1 at Mumbai.
- Conducted detailed Energy Audit of following railway stations New Delhi, Old Delhi, Jalandhar, Firozpur, Pathankot, Moradabad
- Conducted Detailed Energy Audit of Railways Electrical Workshop of Dayabasti, Mechanical Workshop Amritsar, C/W Workshop Jagadhari & Rail Coach factory Kapurthala
- Empanelled as EmAEA & conducted 13 nos. PAT Verification of DCs in Chlor-Alkali, Textile, Cement & Fertilizer sector.
- Conducted mandatory Energy Audit 10 nos. in Cement, Fertilizer, Chlor-Alkali, paper & pulp and Thermal Power House.

### *Variety of Sectors Covered in Auditing*

Metal, Forging, Steel Rolling, Rice Mills, Textile, Printing Machines, Leaf Springs manufacturing, Automobile ancillary, heavy machinery, Sheet-metal, Solar Street light, Packaging units, Commercial buildings (Offices, Bank, Hospital, Hotel, Collage & Schools), Thermal Power Houses, Railways, Sponge iron, Paper & pulp, Cable manufacturing, Sugar Mill, Flour Mill, Cement, Chlor-Alkali, Fertilizer etc.

### *Energy Conservation Project identified in 2013-14 & 2014-15*

Sl. No.	Year	Saving Identified (in toe)	Remarks
1	2013-2014	8489.88 toe	It is the resultant of 27 nos. detailed audits which includes the identified saving in Electricity, Furnace oil, HSD, LPG, PNG & PAT verification with proposed identified saving.
2	2014-2015	2373.78 toe	It is the resultant of 32 nos. detailed audits which includes the identified saving in Electricity, Bagass, HSD, LPG & PAT verification with proposed identified saving.
	<b>Total</b>	<b>10863.66 toe</b>	<b>Total nos. of detail audits : (27+32) = 59</b>

Energy Conservation Project implemented during the last two years :

Sl.	Year	Saving Identified (in toe)
1	2013-2014	671.69 toe
2	2014-2015	948.15 toe
	<b>Total</b>	<b>1619.84 toe</b>

### *Details of articles on energy conservation*

Dr. P.P. Mittal had pen-down many articles on Energy Conservation & related fields which were published in following journals during the year 2013-15 :

- DHBVN Samachar**—A bio-monthly magazine of Haryana Distribution Company
- Udyog Yug** – A monthly magazine of Haryana Govt. industrial Department
- Energy Manager** – A quarterly magazine of Society of Energy Engineer & Manager
- Sahyog** – Annual magazine of Indo-Japan group

**Awards :**

- In March 2015, Dr. P.P. Mittal was Awarded by Director General HAREDA – Award in the Category of “Individual Energy Auditor”
- On 19<sup>th</sup> April 2015, Hon’ble Chief Minister Haryana Awarded an Appreciation Letter to Dr. P.P. Mittal, for his services in Energy Conservation.
- Dr. P.P.Mittal received National Energy Conservation Award-2013 from Dr. Nirja Mathur, Chairperson CEA & Sh. Ajay Mathur DG, BEE on 23<sup>rd</sup> Sept. 2014