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## **Surplus Power Cogeneration in Sugar Industry – K.R.Patil**

### **ABOUT THE AUTHOR**

Kamalakar R. Patil, presently heads the Sugar Engineering Division in Vasantdada Sugar Institute (VSI), Pune. While at the helm of sugar engineering division, he contributed immensely in Design & Development and need based R & D activities encompassing all the fields in sugar engineering, technical consultancy for sugar industry implementation, training and education. He has been associated with the sugar industry for last 35 years and occupies a unique position to guide sugar industry in modern and upcoming technologies. With his dedicated involvement and pursuance, VSI has been instrumental in assisting sugar mills to establish cogeneration projects successfully and help mills to derive financial benefit through export of power.

Mr. Patil, born on 9<sup>th</sup> December 1955, comes from a small village called Pilode (Bk.) in Jalgaon district in the family with agricultural background. He graduated in Mechanical Engineering in June 1979 and acquired Masters Degree in Mechanical Engineering (Design) by research in May 1997 both with first class with distinction from the most renowned Government College of Engineering, Pune (Maharashtra, India). He possesses Diploma in Business Management and Masters in Business Administration both first class with distinction from Institute of Management Development & Research, Pune (Maharashtra, India).

The author has been an official member on various Government committees and an associate member of prestigious organizations such as Institute of Engineers, Sugar Technologists' Association of India (STAI), Deccan Sugar Technologists' Association (DSTA) and South Indian Sugar Technologists' Association (SISSTA). He has also visited USA, Brazil, Australia, Mauritius, Switzerland, Italy, France, Czech Republic, Sudan, Uganda, and Austria for seminars and conferences.

For his outstanding contribution in the field of sugar engineering, he was conferred with Best Scientist Award in the 2000 by the Institute, VSI. He was awarded Gold Medal for his research paper "Energy efficient approach for surface condenser in cogeneration" in August 2008 and again a Gold Medal for research paper "Bagasse drying by using boiler flue gas" in August 2009 by STAI. In addition,

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Mr. Patil received number of awards from other organizations associated with sugar industry. He has presented and published more than thirty technical research papers on various topics like cogeneration, energy audit, energy measurement, energy conservation, vibration engineering, technical efficiency, effect of electrical harmonics, cane diffuser, modeling of sugarcane mill, lubrication engineering etc. at various forums and is reckoned as a technical authority in bagasse based cogeneration.

The author having an inseparable association with the sugar industry, has acquired and developed deep technical insights and in depth knowledge which needs to be shared. The author has taken painstaking efforts spread over the last five years to bring out this book consolidating his vast practical experience and continuous experiments to enhance the efficiency in sugar industry keeping in view emerging technologies for the benefit of the industry. In the Institute, Mr. Patil has been a moving force behind not only engineers to perform better and better but he is also a source of inspiration and dedication for technocrats and scientists of other disciplines in the institute.

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