

## **Dr. B D Sharma**

Dr. B D Sharma is a member of prestigious JBM Group as Chief Technology Officer and Vice President for the Renewable Division. He has about 39 years of working experience in research, academics, industry, social work and consultancy.

Dr. Sharma holds post graduate and DIIT degree in solid state physics from IIT, Delhi and doctorate in Physics from IIT, Chennai. Starting his career from teaching Electrical Engineering at IIT, Chennai, he worked on various research projects in electrets, Molecular beam epitaxy, Raman spectroscopy, Microwave PIN diodes for Phased array radars etc. Later he joined BHEL, Bengaluru to set up various new projects on Silicon, High Power thyristors and diodes, Silicon facility, space grade and terrestrial Solar cells and modules, solar systems and thin film solar plant. Several Solar PV systems for offshore platforms, islands and other stand-alone applications were designed and executed. He was responsible for setting up all these projects to commercialization stage including the development of in-house technology and technology transfer from collaborators (e.g. Siemens, Germany; Glasstech Solar, US; Asahi Glass, Japan; Harwell, UK; BARC and ISRO, India). He set up the country's first fully automated Amorphous silicon module plant (a joint venture between MNRE and BHEL) with technology from Japan and US which was dedicated to the nation by then Honorable Prime Minister Late Shri PV Narsimha Rao.

Dr. Sharma has been a UNDP fellow in Solar Energy at National Renewable Energy Laboratory (NREL), Colorado, US and has visited more than **35** International Solar industries and research establishments in US, Europe and Japan to conclude assignment on Solar technology.

Dr. Sharma has been a fellow at TERI and worked in the areas of Renewable energy and energy efficiency, global warming and CDM. He worked on several projects in Renewable energy, ALGAS project on Carbon emissions, PVMTI project, several EU sponsored renewable energy projects and UNDP project on GHG Mitigation in Bhutan. At TERI he completed the First Energy efficient building (Green building) called RETREAT which was dedicated to the nation by then Honorable Prime Minister Shri Atal Bihari Vajpayee. He has been consultant to Yamuna Action Plan-II, CERC and member of advisory committee to MNRE for Renewable energy programme during XI plan.

Dr. Sharma has worked on several rural energy projects in most parts of the country based on biomass gasification, biogas, bio-fuel and solar systems. He has also worked and evaluated several projects on Rural energy development for MNRE, UNDP, CAPART, AIWC, IRADe and Suzlon foundation. He has also worked on development of DPRs for projects on CIS based Solar Cells for MG Solar (in collaboration with Lockheed Martin), advanced lead batteries (Horizon) and Bamboo Board manufacturing for Nikas Projects. He has conducted energy audits in several top establishments and established Carbon baselines for several establishments including ITC group of hotels. Currently he is developing large grid connected Solar PV and Solar thermal projects, fuel cells and Li ion batteries for the JBM group.

Dr. Sharma is a Senior member of IEEE and has travelled extensively abroad for training, technology transfer, conferences and seminars. He has organized several national and international conferences and training program. He has authored several publications in Indian and International journals.