

Brief Biodata of Professor P.D. Grover

1. Qualification :-

B Tech (Chemical Engineering) Delhi University ;1957 (First Class Second Position)
M.Sc. and Ph. D; University of New Castle upon Tyne, U.K. (1964 & 1970)

2. Work Experience

Scientific Officer – Bhaba Atomic Energy Bombay : (1957-60) 3 Years
Plant Officer – Steel Plant, Burnpur (W. Bengal) (Martin Burn) : (1960-62) 2 Years
Teaching – Research and Industrial Consultancy at IIT Delhi : (1962-96) 34 Years

Academic Position held at Indian Institute of Technology Delhi (IIT)

Lecturer, Assistant Professor, Professor

Head of Chemical Engg. Deptt. And Head of centre for Energy Studies

Dean, Industrial Research & Development

Chairman of Numerous Committees – Notably Campus greening Committee.

Retired From IIT Delhi on 30th June 1996 (Date of Birth : 5.10.1935)

Presently – Advisor to a number of companies including IL&FS, TERI and Marino Industries (Hapur).

3. SPECIALIZATION

- Solid waste Management : Technologies for Pollution control, recyclables and energy from Municipal, Hospital and Industrial Waste.
- Biomass (Agro-residues) utilization through gasification, briquetting and clean combustion.
- Chemical Process Plants: Design & trouble Shooting.
- Industrial Waste (Solid/liquid) minimization and utilization.
- Material and Energy Conservation.

4. PUBLICATIONS

Two books, more than 75 publications in Indian and international Journals and seven patents.

5. GUIDANCE

: More than 100 B.Tech Projects
35 M. Tech Projects
13 Ph. D Theses

6. CONSULTANCY

: More than 50 Major Industrial consultancy assignments (1972-96)

7. TYPICAL ASSIGNMENTS :

- Nine Short Assignments with UNIDO on Biomass and renewable energy system in the Philippines, Ethiopia, Zimbabwe, Vienna (UNIDO- HQ), Indonesia and the U.K. (1983-94)
- Three assignments with FAO and UNO on wood energy system in Myanmar(Burma), Vietnam and Bangkok (1994-96)
- Programme_Coordinator of United nation University, Tokyo : Training Programme on renewable energy at IIT Delhi (Six Years)
- Principal Investigator for numerous Project sponsored by USAID. University of Twente (The Netherlands), MNES and MOE of GOI. (1981-96)
- Visiting Professor : University of Ottawa (Canada), University of South Wales, U.K. (1978)
- Institute Fellow : Forest research Institute Malaysia – Kuala lumpur (1992-93)
- Member of High power committee of the planning commission on Urban Solid waste Management in India under the chairmanship of Dr. J.S. Bajaj (1994-95)
- Resource person for Project evaluation for DST (TDB), MoEF, MNRE (Govt. of India),. REPSO, CPCB, RWEDP and other organization
- Technical Advisor to
 - (i) CMS Energy Systems Pvt. Ltd. (Biomass Energy Systems)
 - (ii) Daurala Sugar Works (Energy from Pressmud, Drying of Sugar)
 - (iii) Dhampur Sugars (Energy through Bagasse gasification)
 - (iv) Brilex Chemicals, Amritsar (Activated carbons)
 - (v) Vecon – IPA Gastechnik Ltd. (Indo-German Joint Venture – Gas Generation & Purification)
 - (vi) Byford Ltd. (Solid Waste management)
 - (vii) Modi Sugars (Sugar Drying)
 - (viii) Olivepit Char Briquetting Plant (Cyprus)
 - (ix) Energy Forum (Sri Lanka)
 - (x) Modi Sugars (Drying of refined Sugar
- National consultant for UNDP for preparation of programme document on Management of Bio-medical Waste (1999)

8. PROCESS/PRODUCT DEVELOPED

- Rice Husk- pyrolised briquette fuel (charcoal) – 1981
- Gasifier stove for community cooking – 1982
- 5-20 H.P. agro waste based gasifiers for power production – 1983-96
- Stationary and Mobile carbonisers – 1985-87
- Amorphous silica and energy from Rice husk – 1986
- Sodium and Potassium Silicates and Activated carbon from rice husk – 1992
- Beehive briquetting process from agro waste for domestic cooking – 1995

- Hospital and Industrial waste incinerator – 1995-96
- Fluidised bed spent carbon reactivator – 1996-98
- Process fir burning of Sugar mill press mud in Boiler – 1998
- 1.3 TPH fine coke dust fluidized gasifier for gas production – 1998
- Setting up 2 TPH Screw press briquetting plant at Bharatpur – based on mustard waste – 1998-99
- Innovative Power plants from MSW at Hyderabad, Vijaywada, Guntur as Tech. Advisor
- Sugar Dust Control system in Sugar mills – installed in DCM Shriram Consolidated Ltd., Ghagra Unit- U.P

9. RECENT PROFESSIONAL ACTIVITIES :

- Design 5 TPH wood chips fluidized bed charcoal making plant and briquetting of same to produce barbecue briquettes in Malaysia – Completed
- Design of Biomass conveying and feeding system into the Boiler of 7.5 MW biomass based power plant at Malwa, Punjab- Completed.
- Sugar Dust control System, design and operation , in Simbhaouli Sugar Mills, U.P. – Completed
- Sr. Advisor to TERI on EU sponsored project on making activated carbon from rice husk/bagasse- Completed.
- Sr. Advisor to IL&FS for project developments on Power Production based on RDF produced from processing of MSW for various cities.

10. PRESENT ACTIVITIES :

- Sr. technical Advisor for 12 MW RDF based power plant from 1300 TDS MSW(under Construction at Ghazuipur, East delhi).
- Technical Advisor RDF Plant at Chandigarh (Jaiprakash Associates)
- Technical Advisor Energy Conservation – Waste utilization (retainership basis), Marino Industries Hapur (Third largest producer of laminates in the world).
- Member, Projects Advisory committee waste to Energy, MNRE (Govt. of India).

