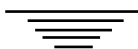


BIODATA OF DR. M.P. SHARMA

1. **Name** : **MAHENDRA PAL SHARMA**
2. **Father's Name** : Shri Shyam Lal Sharma (late)
3. **Date of birth** : 15th August, 1954.
4. **Educational Qualifications** : M.Sc. (1976) Meerut University and Ph.D. (1982) Organic Chemistry, University of Roorkee, Roorkee.
5. **Experience** : (a) **Associate Professor** at AHEC from June 25, 2007 to till date.
 : (b) **Senior Scientific Officer** at Alternate Hydro Energy Centre, Indian Institute of Technology Roorkee w.e.f. Sept. 2001 to June 25, 2007.
 : (c) **Scientist 'B'** at Alternate Hydro Energy Centre, University of Roorkee, Roorkee from March, 1985 to Sept. 2001.
 : (d) **Senior Research Associate** at Alternate Hydro Energy Centre (AHEC), University of Roorkee, Roorkee w.e.f. Oct. 1982 to March 1985.
6. **Present Assignment** : **Associate Professor** at AHEC w.e.f. June 25, 2007
7. **Research guidance** : Ph. D Thesis guided: 06, Ph.D. Thesis in progress: 03, M. Tech. thesis guided: 34, M. Tech. thesis under progress: 03,
8. **Teaching Experience** : Teaching M. Tech. since 1997 and Elective subject to U.G. students since 1991.
9. **R&D Projects completed/being handled** : (a) "Pilot testing of Biomass Gasifier system of 12 kW rating" sponsored by Ministry of Non-Conventional Energy Sources (MNES), Govt. of India-Completed.
 : (b) Intensive Air Quality Monitoring of Doon Valley'- sponsored by National Environmental Engineering Research Institute (NEERI), Nagpur-Completed.
 : (c) Setting up of Renewable Energy Technology Park at AHEC' sponsored by MNES – Completed.
 : (d) "Techno-economic feasibility of hydrogen production using off-peak electricity" - sponsored by MNES - completed.
 : (e) "Design & Development of Model SHPs" sponsored by Power Finance Corporation Ltd., New Delhi (September 2003) – Completed.
 : (f) "Financial support for strengthening of Library/ references of SHP related International standards, codes/ manuals at AHEC/ MNES" sponsored by MNES-completed.
 : (g) FIST Programme – 2003 Level – I (Coordinator) – Completed
 : (h) "Development of an Assessment to Evaluate the Ecological Status of Rivers in Hindukush Himalayan Region" – A Project Sponsored by European Commission (Amount Euro 1,02,505/-) – Principal Investigator. – Completed (April 2008)
 : (i) "Kinetics of Transesterification of Vegetable Oils for the Production of Biodiesel" Sponsored by MHRD"(2005) (Amount Rs.12.00 lacs)–Principal Investigator.–Completed (Sept. 2008)
10. **Consultancy Projects Handled/in progress** : (a) Environment Impact Assessment of the Sugar Mills Limited, Doiwala (Distt. Dehradun).
 : (b) Energy Auditing of the Sugar Mills Limited, Jagraon, Distt. Ludhiana (Punjab)-completed.
 : (c) `Renewable Energy Technology Development' - sponsored by AICTE-Completed. "Preparation of DPR for Conservation and Management Plans of Dal-Nagin Lake in J&K" sponsored by MoEF. – Completed
 : (d) "Review of Proposals from different states for considerations under National River Conservation Plan of MoEF" sponsored by MoEF, GOI – Completed
 : (e) "Integrated Sewerage and Solid Waste Management for Abatement of Pollution of Rivers Kaukhai and Daya at Bhubaneshwar" (Coordinator) sponsored by Bhubaneshwar Development Authority, Bhubaneshwar (2003-04) – Completed
 : (f) "Water quality monitoring of Mansi Lake Restoration Work" sponsored by UPJVN - Completed
 : (g) "Review of water quality monitoring under NRC" sponsored by MoEF–Completed
 : (h) "Remote village electrification of SHP, biomass gasifier and solar" sponsored by MNRE– Completed
 : (i) "Engineering services for execution of special works of Nainital Lake" sponsored by Uttarakhand Govt.,– Completed
 : (j) "Cummulative Impact Assessment of hydropower projects in Alaknanda and Bhagirathi Basin in Uttarakhand" sponsored by MoEF – In Progress
 : (k) "Preparation of DPR for conservation of Kaylana lake in Jodhpur and Gadisar lake in Jaisalmer district of Rajasthan" sponsored by Rajasthan Govt. – In progress)
 : (l) "Preparation of PFRs for 8 SHPs in UP" sponsored by UPJVN – In progress.
 : (m) "Appraisal of DPRs for STPs "sponsored by MoEF – In progress.
11. **International visits** : China (1996), Italy (1998), Norway (2001), Nepal (2003), Bangladesh (2005), Germany (2006), Bhutan (2007), Sri Lanka (2007), USA (2008), Croatia (2011)
12. **Short term courses organised** : Organized 19 National, 16 International Short Term Courses and 19 Conference/ Workshops
13. **Present duties** : (i) Teaching in M. Tech. Programme in "AHES and EMRL (Environmental Management of Rivers and Lakes) (Formerly Conservation of Rivers and Lakes).

- : (ii) Teaching Renewable Energy Technologies, Energy Conservation and Management, Environmental Impact Assessment, Aquatic Ecology, Integrated Water Resource Management to M. Tech. students since 1997.
 - : (iii) Teaching Elective subject (IAH-02) to B. Tech. Students since 1991 and CH-201: Energy Resources and Conservation since 2010.
 - : (iv) Carrying out R&D in the area of modeling of IRES system, Energy conservation, modeling of induction generators, Stability of biodiesel and its blends, kinetics of biodiesel production from vegetable oils, biomass gasification, biogas generation, modeling of Integrated Renewable Energy and hybrid energy systems, water quality mapping of rivers, Green House Gas (GHG) emissions from hydropower reservoirs, Environmental Flow studies.
14. **Membership**
- : (i) BESI, ISTE, SESI and IHA
15. **Expert Member**
- : (i) Member of Expert Appraisal Committee of MoEF.
 - : (ii) Member of Review Committee of Nainital Lake Conservation work.
16. **Publications**
- : (i) Special AHEC publication on "Small Hydro Power-Private Sector Participation", 1996 (I Edition), 1999 (2 Edition) and 3rd Edition (2003).
 - : (ii) **Research papers published:**
 - a. National & International Journals : 83
 - b. National & International conferences : 94
 - c. Book Published : 02
- } List at Annex-I attached.



COMPLETE DETAILS OF RESEARCH PUBLICATIONS BY DR. M.P. SHARMA**A. PAPERS PUBLISHED IN RESEARCH JOURNALS**

1. P.K. Srivastava; J.S. Upadhayaya and **M.P. Sharma**, "The Potential Antithyroid Agents-IV" - **Indian J. Pharm. Sci.** 41 (5), (1979), 191.
2. S.P. Srivastava; J.S. Upadhayaya and **M.P. Sharma**, "Potential Antineoplastic Agents" IV, **Ind. J. Chem.** 20B (1981), 631.
3. V.K. Mashesh; **M.P. Sharma** and Virendra Kumar "TLC Separation of some Benzothiazole Derivatives" **Freneces Z. Anal. chem.** 309, (1981), 405.
4. **M.P. Sharma**; S.P. Srivastava; V.K. Mahesh; M.P. Saluja and J.C. Sharma "Chemical Investigation of Beaumontia Grandiflora Wall" **J. Indian Chem. Soc.** 58 (1981), 927.
5. **M.P. Sharma**; J.S. Upadhayaya and R.K. Swami "Potential Antineoplastic Agents - V " **Indian J. Pham. Sci** 43(5), (1981), 197.
6. **M.P. Sharma**; S.P. Srivastava; V.K. mahesh; M.P. Saluja and J.C. Sharma "Chemical Investigation of Wrightia Mollissima Wall" **J. Ind. Chem. Soc.** LIX (6), (1982) 810.
7. W.U. Malik; R. Jain and **M.P. Sharma** "Polarographic studies on the Reduction of the Azomethine Bond in Aryl Thiosemi-Carbazides and the Determination of Hammett Parameters" **J. Ind. Chem. Soc.** 57, (1982), 1057.
8. P.K. Aggarwal & **M.P. Sharma** "Chemical Constituents of Allamanda Cathartica" **Ind. J. Pharm Sci.** 45, (1983), 246.
9. **M.P. Sharma** and R.K. Swami "TLC Separation of some closely Related Substituted Benzothiazonlyl Pyrazole Derivatives" **J. Liquid Chromatography**, 8(7) (1985), 1993.
10. **M.P. Sharma** & B. Prasad, "Development of Downdraft Gasifier for Thermal and Power Generation Applications " **Energy Management J.** 11(4), (1986), 297-304.
11. S.K. Sharma; J.S. Saini, I.M. Misra & **M.P. Sharma** "Biogas Generation-Effect of mixing effluent slurry with fresh cattle dung" **Energy management J.** 11(3), (1987). 197-202.
12. S.K. Sharma; J.S. Saini, I.M. Misra & **M.P. Sharma** "Pre-digestion of Rice Straw to improve biogas production **URJA, ENERGY Journal**, XXII (3), (1987). 203-209.
13. S.K. Sharma, J.S. Saini, I.M. Misra & **M.P. Sharma** "Mirabilis Leaves- A potential source of methane". **Biomass**, 13(1), (1987). 13-24.
14. **M.P. Sharma** "Hybrid Energy Systems" **Science Reporter**, 25(1) (1988). 25-29.
15. S.K. Sharma, I.M. Misra, J.S. Saini and **M.P. Sharma** "Biogasification of woody Biomass: Ipomoea fistulosa plant Stem" **Biological Waste.** 28, (1989). 25-32.
16. S.K. Sharma, J.S. Saini, I.M. Misra & **M.P. Sharma** "Effect of Particle size on the biogas generation from biomass residues" **Biomass**, 17,(1988). 251-263.
17. S.P. Goel, G.R. Verma, **M.P. Sharma** & Sanjive Kumar "Preparation of Potassium Trimolybdate by the thermal decomposition of a new oxomolybdenum (VI) Oxalato Complex" **Thermochemica Acta** 141 (1989). 87-92.
18. S.K. Sharma, J.S. Saini, I.M. Misra & **M.P. Sharma** "Biogas from biomass" **Indian J. Rural Technology** 1(1) (1989). 1-17.
19. **M.P. Sharma** and B. Prasad, "Bio-Energy based conservation of Conventional Fuel Resources" **J. Nature conservation.** 1(2), (1989). 107-114.
20. S.K.Sharma., I.M.Mishra., **M.P.Sharma.** "Cauliflower leaves-A source of methane". **Regional J. Energy, Heat & Mass Transfer.** 11(3), (1989). 155-64.

21. S.K.Sharma., **M.P.Sharma.**, I.M.Mishra & J.S.Saini. "Biogasification of Banana Peeling & Ipomoea Fistulosa Leaves". **Khadigramodyog**, XXXIII (7), (1988). 324-332.
22. **M.P.Sharma** & M.P.Jain. Biomass-A potential source of Renewable Energy". **Indian J. Rural Technology**. 2(1), (1990), 43-54.
23. S.K.Sharma., **M.P.Sharma** & I.M.Mishra. "Biomethanation of Ipomoea fistulosa: Its kinetics; Effect of pH and TVFA". **Asian Environment**, 11(4), (1989), 64-76.
24. S.K.Sharma., **M.P.Sharma** & I.M.Mishra. "Generating biogas from agricultural residues". **Rural Technology**, Sept., 1990, 17-20.
25. S.P.Goel., G.R.Verma, Sanjeev Kumar & **M.P.Sharma**. "Preparation of caesium tetramolybdate by the thermal Decomposition of a New Oxomolybdenum (VI) Oxalato complex, **Thermochemica Acta**, 170, (1990), 1-6.
26. S.P.Goel, G.R.Verma, S.Kumar and **M.P.Sharma**, 'Investigation of the formation of Potassium Trimolybdate via Oxomolybdenum(VI) Oxalato complex', **J. Thermal Analysis**, 36, (1990), 2349-2356.
27. S.P.Goel, G.R.Verma, S.Kumar and **M.P.Sharma**, 'Preparation of Cesium Trimolybdate by the thermal decomposition of a New Oxomolybdenum(VI) Oxalato complex', **J. Thermal Analysis**, 37, (1991), 427-432.
28. S.P.Goel, S.Kumar and **M.P.Sharma**, 'Preparation, Characterization and thermal decomposition of a new Oxomolybdenum (VI) Oxalato complex' **Thermochemica Acta**, 188(2), (1991), 201-205.
29. **M.P. Sharma** "Biogas Generation from Biomass Residues - An Overview" **Rural Technology Journal**, 8(3), (Dec. 1991), 1- 11.
30. S.K. Sharma, I.M. Misra & **M.P. Sharma**, "Biogas production from biomass residues" **Indian J. Rural technology**, 5(2), 1993, 57-67.
31. **Sharma, M.P.** `Biogas generation from Biomass - A Lab and Pilot Study' **Indian J. Rural Technology**, 6(1), 1994, 7-17.
32. **Sharma, M.P.**, D. Bhattacharya, U.C. Chaubey & Brijesh Chandra, `Replacement of Conventional Energy with Non-Conventional Energy for on-farm use' **Indian J. Rural Tech**, 7 (1&2), 1995, 23-26.
33. S. Mittal and **M.P. Sharma** "Economically Viable Integrated Renewable Energy Systems" **J. of Rural Energy**, 4(1-4), 1997, 29-39.
34. **M.P. Sharma** & J.D. Sharma "Bagasse based co-generation systems for Indian Sugar Mills" **Renewable Energy**, 16, 1999, 1011-1014.
35. **M.P. Sharma** "Alternative Feedstocks for Biogas Production" **J. Environmental Studies and Policy**, 3 (2), 2001, 61-68.
36. S.K. Sharma, P.K. Modi, **M.P. Sharma** & S.P. Singh on "Loss Reduction in Indian Rural Distribution System by Network Reconfiguration", **International Journal of Water & Energy**, 60 (1), 2003, 30-45.
37. S.K. Sharma, **M.P. Sharma**, P.K. Modi & S.P. Singh "Loss Reduction in Indian Rural Distribution System by Network Reinforcement", **Nigerian Journal of Renewable Energy**, 11(1&2), 2003, 63-78.
38. B.K. Barnwal & **M.P. Sharma** "Prospects of Biodiesel Production from Vegetable Oils in India", **J. Renewable & Sustainable Energy Reviews**, 9, 2005, 363-378.
39. **M.P.Sharma**, Shailendra Sharma, Vivek Goel, Praveen Sharma & Arun Kumar, "Water Quality Assessment of Behta River Using Benthic Macroinvertebrates", **Life Science Journal**, 3 (4), 2006, 68-74.
40. A.K. Akella, **M. P. Sharma** & R. P. Saini "Optimum utilization of Renewable Energy sources in a Remote Area" **J. Renewable & Sustainable Review**, 11(5), June 2007, 894-908.
41. Bhaskar J. Das, **M.P.Sharma**, Ranveer Singh & S.K.Singhal "Assessment of surface water quality of Deeporbeel Wetland", **Environmental Science – An Indian Journal**, 2(1) Jan. 2007, 44-52.

42. S.N. Mahato, **M.P.Sharma** & S.P.Singh on “Transient performance of a single-phase self-regulated self-excited induction generator using a three-phase machine”, **J. Electric Power Systems Research**, 77(7), 2007, 839-850.
43. S.N.Mahato, **M.P.Sharma** & S.P.Singh “Selection of optimal capacitors for maximum power output of a single-phase self-excited induction generator using a three-phase machine” **J. of Electric Power Components & Systems**, 35 (8), August 2007, 857 to 870.
44. R.D. Chauhan, **M.P.Sharma**, S.K.Singhal & R.P. Saini “Biodiesel from Jatropha as transport Fuel – A case study of U.P.State”, **Journal of Scientific & Industrial Research**, Vol 66, May 2007, 394-398.
45. S.Balaji and **M.P.Sharma** “Water Quality Assessment and conservation of River Bhavani”, **Journal of Ecology, Environment & Conservation**, 13 (3), 2007, 593-600.
46. S.N. Mahato, S.P.Singh and **M.P.Sharma** “Capacitors Required for Maximum Power of a Self-Excited Single-Phase Induction Generator using a Three-Phase Machine”, **IEEE Transactions on Energy Conversion**, 23 (2), June 2008, 372-381.
47. Bhaskar J.Das, S.K.Singal, Ranvir Singh & **M.P.Sharma** “Impacts of soil erosion in a ungauged wetland catchment” **Environmental Science – An Indian journal** (ESAIJ), 3(2), 2008, 217-223.
48. **M.P.Sharma**, S.K.Singal & S. Patra “Water quality profile of Yamuna river, India”, **Journal of water, Energy and Environment, (Hydro Nepal)**, Issue July 03, 2008 27-32.
49. S.N.Mahato, S.P.Singh & **M.P.Sharma** “Excitation capacitance required for self excited single phase induction generator using three phase machine” **Energy Conversion and Management**, 49, 2008, 1126-1135.
50. **M.P. Sharma**, Shailendra Sharma, Vivek Goel, Praveen Sharma & Arun Kumar “Water quality assessment of Ninglad Stream using benthic macroinvertebrates” **J. of Life sciences**, 5 (3)- 2008, 67-72
51. S.Kannan, S.K.Singal, A.A. Kazmi & **M.P. Sharma** “Selection of Appropriate Sewage Treatment Technology for Kancheepuram City” **Asian Journal of Water, Environment & Pollution**, 6 (2) 2008, 107-111.
52. Siddharth Jain & **M.P.Sharma**, “Feasibility study of Power Generation from Municipal Solid Wastes of Haridwar City” **International Journal of Chemical Sciences**, 6(4), 2008, 1920-1941.
53. A.K.Akella, R.P.Saini & **M.P.Sharma**, “Social, economical and environmental impacts of renewable energy systems” **Renewable Energy**, 34, 2009, 390-396.
54. **M.P.Sharma** “Biodiesel Production From Cottonseed & Pongamia Oil” **J. of Indian water resources society**, 29 (1), January 2009, 49-58.
55. Ajay D. Chavan, **M.P.Sharma** and Renu Bhargava “Water Quality Assessment of the Godavari River” **J. of Hydro Nepal – Journal of Water, Energy and Environment**, Issue No. 5, July 2009, 40-43.
56. Ajai Gupta, R.P.Saini and **M.P.Sharma** “Steady-state modeling of hybrid energy system for off grid electrification of cluster of villages” **Renewable Energy**, 2009, 1-16.
57. Siddharth Jain and **M.P. Sharma** “Prospects of biodiesel from Jatropha in India: A review” **J. of Renewable and Sustainable Energy Reviews**, 14, 2010, 763-771.
58. Siddharth Jain and **M.P. Sharma** “Stability of biodiesel and its blends: A review” **J. of Renewable and Sustainable Energy Reviews**, 14, 2010, 667-678.
59. **M.P.Sharma**, Arun Kumar and Shalini Rajvanshi “Assessment of Trophic State of Lakes: A Case of Mansi Ganga Lake in India”, . **J. of Hydro Nepal –Journal of Water, Energy and Environment**, Issue No. 6, January 2010, 65-72.
60. A.B. Kanase-Patil, R.P.Saini & **M.P.Sharma**, “Integrated Renewable Energy Systems for Off grid Rural Electrification of Remote area” **Renewable Energy**, 35, 2010, 1342-1349.
61. Siddharth Jain & **M.P. Sharma** “Review of different test methods for the evaluation of stability of biodiesel”, **J. of Renewable and Sustainable Energy Reviews**, 14, 2010, 1937-1947.

62. Siddharth Jain & M.P. Sharma “Kinetics of acid base catalyzed transesterification of Jatropha Curcas oil”, **J. of Bioresource Technology**, 101, 2010, 7701-7706.
63. S.N.Singh, **M.P.Sharma** and Ajit Singh “Design of Mini Grid for SHP Plants” **J. of Hydro Nepal –Journal of Water, Energy and Environment**, Issue No. 7, July 2010, 38-47.
64. M.P.Sharma and S.N.V. Rama Anusha Mandavilli “Biodiesel from Waste Cooking Oil For Power Generation” **J. of Indian Water Resources Society**, Vol. 30 No. 4, Oct, 2010, 37-43 (Issue published in July 2011).
65. Siddharth Jain, **M.P. Sharma** and Shalini Rajvanshi “Kinetics of acid base catalyzed transesterification of waste cooking oil” **J. of Fuel Processing Technology**, 92 (1), Jan 2011, 32-38.
66. Siddharth Jain and **M.P.Sharma** “Power Generation from MSW of Haridwar City: A feasibility Study” **J. of Renewable and Sustainable Energy Reviews**, 15, 2011, 69-90.
67. Siddharth Jain and **M.P.Sharma** “Thermal Stability of biodiesel and its blends: A Review” **J. of Renewable and Sustainable Energy Reviews**, 15, 2011, 438-448.
68. Ajai Gupta, R.P.Saini, **M.P.Sharma** “Modelling of hybrid energy system – Part I: Problem formulation and model development” **Renewable Energy**, 36, 2011, 459-465.
69. Ajai Gupta, R.P.Saini, **M.P.Sharma** “Modelling of hybrid energy system – Part II: Combined dispatch strategies and solution algorithm” **Renewable Energy**, 36, 2011, 466-473.
70. Ajai Gupta, R.P.Saini, **M.P.Sharma** “Modelling of hybrid energy system – Part III: “Case study with simulation results” **Renewable Energy**, 36, 2011, 474-481.
71. Siddharth Jain and **M.P.Sharma** “Correlation development for effect of metal contaminants on the Thermal stability of Jatropha curcas biodiesel” **Energy & Fuels** (ACS Publications), 2011.
72. Siddharth Jain and **M.P.Sharma** “Biodiesel production from Jartopha Curcas Oil” **J. of Renewable and Sustainable Energy Reviews**, 14(9), 2011, 3140-3147.
73. Siddharth Jain and **M.P.Sharma** “Study of Oxidation Stability of Jatropha Curcas biodiesel/diesel blends” **International Journal of Energy and Environment**, 2(3), 2011, 533-542.
74. Siddharth Jain and **M.P.Sharma** “Correlation development for effect of metal contaminants on the oxidation stability of Jatropha curcas biodiesel” **Fuel**, 90, 2011, 2045-2050.
75. Siddharth Jain and **M.P. Sharma** “Measurement of the Oxidation Stability of Biodiesel Using a Modified Karl Fischer Apparatus” **J. of American Oil Chemist’s Society (JAOCS)**, 88 (7), 2011, 899-905.
76. Siddharth Jain and **M.P.Sharma** “Oxidation stability of blends of Jatropha biodiesel with diesel” **Fuel**, 90 (10), May 2011, 3014-3020.
77. Nitesh Dutt and **M.P.Sharma** “Potential of Renewable Electricity from Biomass Waste IIT Roorkee Campus, India” **of Hydro Nepal –Journal of Water, Energy and Environment**, Issue No. 9, July 2011, 38-43.
78. A.B. Kanase-Patil, R.P.Saini & **M.P.Sharma**, “Development of IREOM model based on seasonally varying load profile for hilly remote areas of Uttarakhand state in India” **Energy**, 36(9) Sept. 2011, 5690-5702.
79. A.B. Kanase-Patil, R.P.Saini & **M.P.Sharma**, “Sizing of integrated renewable energy system based on load profiles and reliability index for the state of Uttarakhand in India” **Renewable Energy**, 36(11), Nov.2011, 2809-2821.
80. Gaurav Dwivedi, Siddharth Jain and M.P.Sharma, “Pongamia as a source of Biodiesel in India” **Journal of Smart Grid and Renewable Energy (SGRE)**, 2011,2,2011,184-189

81. Gaurav Dwivedi, Siddharth Jain and **M.P.Sharma**, "Impact Analysis of Biodiesel on Engine Performance- A Review" in **Journal of Renewable & Sustainable Energy Reviews** (Accepted).
82. Siddharth Jain and **M.P.Sharma**, "Oxidation, thermal and storage stability studies of Jatropha curcas biodiesel," International Scholarly Research Network (ISRN) Renewable Energy. (Accepted).
83. Swati Kawade, **M.P.Sharma** and Arun Kumar, "*Measruement Techniques for GHG Emission from Hydropower Reservoirs*" *International Journal of Energy Science (IJES)*

C. PAPERS PUBLISHED IN SYMPOSIUM/CONFERENCES/SEMINARS.

1. **M.P. Sharma**, B. Prasad and J.S. Saini "Role of Biomass Energy in Rural Development" presented at a Seminar (held on 16-17 April 1980) organised by U.P. Council of Science & Technology, Lucknow (UP).
2. B. Prasad, **M.P. Sharma**; O.D. Thapar and J.S. Saini "Studies on Electrical Gasification of Biomass at Atmospheric Pressure" a paper presented at the Seminar on Energy Conservation in Process Industries " organised by Institution of Engineers (India), Roorkee Local Centre held on 1-2, July 1985.
3. B. Prasad, **M.P. Sharma** & J.S. Saini, "Decentralised Micro Hydro Energy Systems" Proceedings of a seminar on `National Seminar on status & Growth strategies of Chemical & Allied Industries (NS-GAGSO CAAI-86) organised by the Institution of Engineers (India) U.P. State Centre, Lucknow, held on Dec. 22-24, 1986, P-III, 41-44.
4. **M.P. Sharma**, B. Prasad & J.S. Saini "Development of Rural Energy Complex at village Brahampur," Ibid, P.III, 45-48.
5. S.K. Sharma; J.S. Saini, I.M. Misra & **M.P. Sharma** "Effect of stirring on Biogas generation" Proceedings of Fourth Convention & Symposium of Bio-Energy Society of India Organised by Rajasthan Local Chapter at College of Technology & Agricultural Engg. Sukhadia University, Udaipur (Raj.) held on September 4-5, 1987 (Focal Theme; Bio Energy For Arid Regions).
6. J.S. Saini, B. Prasad & **M.P. Sharma** "Energy from Biomass" A paper presented at XX Engineers Day Celebrations at KDMIPE, Dehradun held on September 15, 1987 on the Theme "Reuse technology" & Organised by the Institution of Engineers (India), Roorkee, Local Centre.
7. M.P. Sharma & B. Prasad "Biomass Energy based Brick and Lime Kilns" proceedings of National Solar Energy Convention'87 (NSEC-1987) and Workshop on Techno-economics of Renewable Energy Power generating Systems" held at Indian Institute of Technology, New Delhi on 1-4 December, 1987.
8. **M.P. Sharma** and B. Prasad, "Integrated Renewable Energy Systems" Proceedings of National Seminar on "Pragmatic strategies for Process Utilities with special emphasis on Conservation of Energy and Environment (4th National Convention of Chemical Engineers)" Organised by the Institution of Engineers (India), Roorkee Local Chapter (University Campus), Roorkee on 3-4 October 1988, P: II 10-15.
9. S.K. Sharma, I.M. Misra, J.S. Saini and **M.P. Sharma** "Biogas Generation from Agricultural residues for Rural Development" Ibid, P:II 5-9.
10. **M.P. Sharma**, "Fuel Wood Production and Utilization for Energy" proceedings of at 5th Annual Convention of Bio-Energy Society of India Organised by Gujrat Energy Development Agency, Baroda, held on 30-31st October 1988, 99-105.
11. S.K. Sharma, I.M. Misra; J.S. Saini and **M.P. sharma** "Fuelwood: conversion & Utilisation through Thermal & Biogasification" Proceedings of 5th Annual Convention & Symposium' 88 of Bio-Energy society of India held at Vadodara on 30-31st October, 1988, 333-338.
12. **M.P. Sharma** & J.S. Upadhyaya "Plants and silvichemicals & their importance in human affairs" proceedings of "Nature conservators" symposium on "Environmental Protection-A movement" held at D.A.V. College Muzaffar Nagar on 18 & 19th July, 1989, 64-71.
13. S.K.Sharma., M.P.Jain., **M.P.Sharma.**, I.M.Mishra & J.S.Saini. "Anaerobic digestion of crops & forest residues". Proceedings of "The World Renewable Energy Congress". held at University of Reading, Reading (U.K) on 23-28 Sept. 1990, p. 1932.
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