



BIO – DATA

Name : Dr. RAM NARAYAN SINGH
 Father's Name : Shri Deo Nath Singh
 Nationality : Indian
 Date of Birth : 1st July 1965
 Place of Birth : Karaunda, Baghaura, Mirzapur, UP-231001
 Address for Correspondence : School of Energy & Environmental Studies
 Devi Ahilya Vishwavidayala ,
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Present Occupation : * **Professor**, School of Energy & Environmental Studies
 ***Dean**, Faculty of Engineering Science (17th June 2014-16th June 2016)
 ***Chairman**, BOS, School of Energy & Environmental Studies
 (w.e.o. 6th June 2015- 5th June 2018)
 ***Member of Executive Council of DAVV, Indore** (6th January 2016-
 16th June 2016)
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Technical Qualifications (Starting with the most recent degree)

Degree	Year	Subject(s)	University/Institutes	Marks (%) CGPA
Ph D * (Energy)	2007	Energy	Devi Ahilya University, Indore	Degree Awarded in June 2007
M. Tech (Ag. Engg)	1992	Agril. Process Engg.	Punjab Agriculture University, Ludhaina	3.27/4.00
B. Tech (Ag. Engg)	1989	Agricultural Engineering	Allahabad University, Allahabad	69.25 %

*Title of PhD Work “Investigations on operation of IC engine using producer gas and non-edible plant oils and their esters in duel fuel mode”

Publication (Number only)

Book Chapter : 02,
 Research Paper & General Articles : 79 & 05, List attached
 Numbers of PhD Student Guiding : 04
 Numbers of Ph.D. Student Guided : 04
 Numbers of PG Student Guided : More than 50

Book Chapter

1. **R N Singh** and Shaishav Sharma (2015), “Waste to Energy Technology. In: Waste Management: Challenges, Threats and Opportunities”, Nova Science Publishers (ISBN: 978-1-63482-150-6)
2. **R N Singh** and D Asha (2018), “Thermo- Chemical Conversion of Solid Biomass. In: Low Carbon Energy Supply - Trends, Technology, Management”, Springer Publisher (ISBN No. 978-981-10-7325-0) Springer Nature Singapore Pte Ltd. 2018

WORTHY CONTRIBUTIONS IN THE FIELD OF RENEWABLE ENERGY

The candidate executed Eight R & D projects as **Principal Investigator** and Six projects as CO-Principal Investigator at TERI, New Delhi and SPRERI Vallabh Vidyanagar, Gujarat. Presently two projects is ongoing as CO- Principal Investigator

Projects executed as Principal Investigator

- Modification of commercial briquetting machine for producing agro-residues briquettes suitable for gasification Sponsored by Indian Council of Agricultural Research, New Delhi.
- Optimization of design and operational parameters of IC engine using producer gas and plant oil in duel fuel mode. (Indian Council of Agricultural Research, New Delhi).
- ORP on industrial thermal application of open core down draft gasifier system (Indian Council of Agricultural Research, New Delhi).
- Replacement of hydrocarbon fuel by Jatropha oil and bio-diesel in Stationary Engine (Government of Gujarat, Gandhinagar).
- Development of a dryer for gasifier feedstock using waste heat (ICAR, New Delhi).
- Performance evaluation of 20kWe DG set, with SPRERI/PAU gas cooling-cleaning system for operation on producer gas –diesel
- Performance testing of SVO on small engines and stationary applications (TERI, New Delhi)
- Regional Contract for project design and development and capacity building and outreach for VESP project for Northern region (West Bengal & Assam) Sponsored by MNES, New Delhi

Projects executed as Co-Principal Investigator

- Development of a natural draft based gasifier system for thermal application in rural India Sponsored by Department of Science and Technology, Govt. of India.

- Development of Agricultural residues based charcoal making system for thermal application in rural India Sponsored by Department of Science and Technology, Govt. of India.
- Field testing and evaluation of a 25000 kcal/h updraft gasifier system for thermal application in rural industries Sponsored by Department of Science and Technology, Govt. of India.
- Industrial application of SPRERI'S gasifier burner systems Sponsored by Indian Council of Agricultural Research, New Delhi.
- Development of biomass feeding system for continuous operation of updraft gasifier system Sponsored by Indian Council of Agricultural Research, New Delhi
- Up gradation and field evaluation of SPRERI'S biomass gasifier cook stove for community use Sponsored by Gujarat Energy Development Agency, Vadodara.
- Holistic approach to utilize algae for fuel production (UGC, New Delhi, worth of 7.91 lakhs)-Ongoing
- Design and Development of Horizontal Gasifier for Biomass Materials (DST, New Delhi, worth of 25.4 lakhs)- Ongoing

Successfully organized international ITEC (Indian Technical and Economical Cooperation) training program on "Renewable Energy and Energy Efficiency" for the year of 2007- 08 & 2008-09, Sponsored by Ministry of External Affairs, New Delhi (India)

Present Responsibilities

Professor & Exam In charge at SEES, DAVV, Indore

Patent: One being filed with DST, GOI, on Natural Draft Gasifier

Membership of Societies

- Life member – Association of Food Scientist and Technologist, India (AFST/LM/95/ZON/1118)
- Life member -- Indian Society of Agricultural Engineering; ISAE (LM-10111)
- Life member- Solar Energy Society of India, SESI (LM/1973/2012)
- Member - Renewable Energy Forum of India

Professional Training:

- Rice husk Open core Gasifier and Producer Gas Cleaning System: School of Energy studies for Agriculture, P A U Ludhiana (19th Feb – 21st Feb. 2003)
- Testing and Instrumentation of Diesel Engine: CFMTTI, Budni (5th - 7th October 2004)

PhD STUDENTS GUIDING

1. Investigation of performance and Emission of Vegetable Oil Based Compression Ignition Engine (Kamta Tewari)
2. Design and Development of Air Heat Exchanger for cleaning of Producer Gas (Ved Prakash vishwakarma)

Ph.D. Students Degree Awarded

1. Design, development and performance evaluation of energy efficient hybrid air conditioning system (Dr. Devendra Kumar Joshi) - July 15
2. Investigations on algae species and its growth for bio-hydrogen production and their applications (Dr. Shaishav Sharma) - July 16
3. Design, development and evaluation of horizontal gasifier for biomass material (Jai Bahadur Balwanshi) – 19th July 2017
4. Impact of crop residue burning on the ambient aerosol and soil of rural area (Satyendra Tripathi) - 28th May 2018.

Ph.D. Students Thesis submitted

1. Dosing of Hydroxide for Conditioning of Producer gas and its Impact on Soil (D Asha)
2. Design, development and performance evaluation of continuous fed horizontal biomass gasifier (V K Aharwal, Feb 2019)

PUBLICATIONS:

Research Articles (**Published in International Journal**)

1. **Singh R N and D Asha** (2019) “**Conditioning of Producer gas by dosing in Hydroxide solution**” International Journal of Scientific Research in Multidisciplinary Studies, Vol.5 (6).
2. **Singh R N, David Abhishak and Aharwal V K** (2019), “Low Pressure Steam Generation from Waste Heat of Updraft Gasifier Using Pipe To Pipe Counter Flow Heat Exchanger” International Journal of Scientific Research in Multidisciplinary Studies, Vol.5 (1) PP:1-8. **Impact Factor – 1.602.**
3. Aharwal, V. K. and **R.N. Singh** (2018) “Computational Fluid Dynamics Simulation of Horizontal Biomass Gasifier” International Journal of Scientific Research in Multidisciplinary Studies, E-ISSN: 2454-9312 Vol.4 (2), pp.1-7, February (2018). UGC Approval No. 45841. **Impact Factor – 1.602.**
4. Aharwal, V. K. and **R.N. Singh** (2018) “Performance Evaluation of Continuous Biomass Fed Horizontal Gasifier” International Journal of Innovation in Engineering, ISSN: 2348-4918 Vol.5 (1), pp.
5. **Singh, R N and D Asha** (2017) “Investigation and Performance Evaluation of Organic Filter for Removal of Tar and SPM, International Journal of Science, Technology and Society Vol.3 (1&2), pp: 1-2. **ISSN: 2330-7412**

6. **Singh R N**, J B Balwanshi, V K Aharwal and S P Singh (2016). Experimental Investigation of Horizontal gasifier, International Journal of Science, Technology and Society Vol. 2 (1&2) PP: 50-55. Published by Science Publishing Group. ISSN: 2330-7412
7. D Asha and **R N Singh** (2016). Influence of Tar effluent from Up-draft gasifier on Physico-chemical characteristics of black soil. Journal of Global Agriculture and Ecology, ISSN No. : 2454-4205, Vol. 6 (2), PP: 108-112.
8. **Singh R N**, Shaishav Sharma, Anand Krishna Singh and Nilay Srivastava. (2015). Design and Development of a Simple Stirred Tank Photobioreactor for Algal Production, Journal of Solar Energy Research Updates, E-ISSN: 2410-2199/15 2015, Vol. 2, pp: 24-26.
9. D Asha, **R N Singh** (2015), "Influence of Alkali Hydroxide effluent generated through Conditioning of Producer Gas on Black Soil" Journal of Global Agriculture and Ecology, ISSN No. : 2454-4205, Vol. 4 (3).
10. S P Singh, **R N Singh**, D K Joshi (2015) "Global Warming and Renewable Energy Sources for Sustainable Development in India" Journal of Alternate Energy Sources and Technologies Vol. 6 (3), 1- 7. UGC Approval
11. Satyendra Tripathi, **Singh R N** and Sharma, S K (2015) "Quantification and Characterization of Soil Physico-Chemical Properties Influence By Wheat (*Triticum Aestivum*) Residue Burning in India", Journal of Global Ecology and Environment, Vol. 2 (3), 155-160.
12. Gujre Nihal and R N Singh (2015) "Effect of noise on human being and eco-friendly measures for control: A review" International Journal of Environmental Sciences, ISSN NO. 0976 - 4402 , Volume 5 (5), pp: 910-918.
13. Singh R N and Joshi DK (2015) "Photovoltaic: Environmental, Health and Safety Issues" Journal of Energy Environment and Carbon Credits Vol.5 (3), PP; 1-5. UGC Approval
14. **Singh R N**, S P Singh and J B Balwanshi (2014) "Tar Removal from producer gas: A Review" Research Journal of Engineering Sciences, ISSN No. 2278-9472, Vo. 3(10), pp: 1-6.
15. Patel Narendra and **Singh R N** (2014) "Optimization of NO_x Emission from Soya Biodiesel Fuelled Diesel Engine using Cetane Improver (DTBP)" Jordan Journal of Mechanical and Industrial Engineering Vol. 8(4); PP:213-217. (ISSN 1995-6665) **H Index 07.**
16. **Singh R N**, Satyendra Tripathi, Shaishav Sharma, Gaurav Choudhary (2014) "Influence of Biodiesel Effluent on Physico – Chemical Characteristics of Black Soil: A Laboratory Study" International journal of Water, Air, & Soil Pollution, ISSN: 0049-6979 Vol. 225(9) PP:1-5.
17. **Singh, R N**, Shaishav Sharma and D.K. Vyas (2014) "Studies on Effect of Long Term Storage of Jatropha Oil, Blends of Jatropha Oil with Diesel and Bio-diesel on Quality" Nature & Environment Vol. 19 (2), PP: 158-162 **H Index 05.**
18. **Singh R N**, Sharma M K, Gawade SS and Aharwal V K (2013) "Reactivity of biomass Briquettes" Proceedings of International Conference on Health, Environment and Industrial Biotechnology, BioSangam 2013 held at Motilal Nehru Institute of Technology Allahabad (UP) PP: 281-287.
19. **Singh R N**, Sharma Shaishav and Arya B S (2013)" Novel method of Algae production using fish excreta" Proceedings of International Conference on Health, Environment and

- Industrial Biotechnology, BioSangam 2013 held at Motilal Nehru Institute of Technology Allahabad (UP) PP: 261-263
20. Tiwari K P, **R N Singh**, J B Balwanshi (2013) “Fuel wastage & emission due to idling of vehicles at road traffic signals” IJRET Vol. 02(10) PP: 42-53.
 21. Tiwari K P, **R N Singh**, J B Balwanshi (2013) “Effect of Fuel Injection pressure on CI engine performance using Preheated Karanja oil as a fuel” IJRET Vol. 02(10) PP: 1563-1570 (Impact factor 1.962).
 22. **Singh R N**, Shashank Mandovra, and Jai Balwanshi (2013) “Performance evaluation of jacketed cyclone for reduction of tar from producer gas” International Agricultural Engineering Journal Vol. 22 (3) PP: 1-5. **H Index 10**
 23. Satyendra Tripathi, **Singh R N** and Sharma Shaishav (2013) “Emissions from Crop/Biomass Residue Burning Risk to Atmospheric Quality” International Research Journal of Earth Sciences Vol. **1(1)**, 1-5, April (2013).
 24. Sharma Shaishav, **Singh R.N.** and Tripathi Satyendra (2013) “Biohydrogen from Algae: Fuel of the Future” International Research Journal of Environment Sciences Vol. **2(4)**, 44-47, April (2013).
 25. **Singh, R N and** Sharma Shaishav (2012) “Development of suitable Photobioreactor for Algae production - A Review” Renewable & Sustainable Energy Reviews 16 (1), PP: 2347– 2353 (Impact factor 6.018). ISSN - 1364-0321. **H Index 140**
 26. **Singh, R N (2011)** “Straight Vegetable Oil: An alternative fuel for cooking, lighting and irrigation pump” **IIOABJ, Vol.2 (7):**44-49. Index Copernicus (IC) Value = 5.16 (2011) ISSN- 0976-3104.
 27. **Singh R N**, Vyas D K, Srivastava N S L and Narra Madhuri (2008) “SPRERI experience on holistic approach to utilize all parts of Jatropha curcas fruit for energy” International Journal of Renewable Energy 33(8): 1868 - 1873(Impact factor 2.79) **H Index 11**
 28. **Singh R N**; Singh, S P and Pathak, B S (2007) “Extent of replacement of methyl ester of rice bran oil by producer gas in CI” International Journal of Energy Research 31:1545 – 1555(Impact factor 2.79) **H Index 61**
 29. **Singh R N**; Singh, S P and Pathak, B S (2007) “Performance of Renewable Fuel Based CI Engine”, Agricultural Engineering International: the CIGR Ejournal Manuscript EE 06 014. Vol. IX. April 2007.
 30. **Singh R N**; Singh, S P and Pathak, B S (2007) “Investigations on operation of CI engine using producer gas and rice bran oil in mixed fuel mode fuel ” Renewable Energy 32 (9): 1565 -1580.
 31. Vyas D K and **Singh R N** (2007) “Feasibility study of Jatropha seed husk as an open core gasifier feedstock” Renewable Energy, 32 (3): 512 – 517. **H Index 113**
 32. **Singh, R N**, Bhoi, P R, Patel, S R (2007) “Modification of commercial briquetting machine to produce 35 mm dia briquettes suitable for gasification” International Journal of Renewable Energy, 32 (3): 474 - 479. **H Index 113**
 33. **Singh, R N**, Jena, U, Patel, J. B. and Sharma, A. M. (2006) “Feasibility study of cashew nut shells as an open core gasifier feedstock” Renewable Energy, 31(4): 481-487. **H Index 113**
 34. Bhoi P R; **Singh R N**; Sharma A M and Patel S R (2006) “Performance evaluation of open core gasifier on multi fuel” Biomass & Bioenergy 30(6) pp: 575 – 579. **H Index 124**

35. **Singh R N**; Singh S P and Pathak B S (2004) “Emission characteristics of a naturally aspirated multi cylinder diesel engine with multi fuel” *International Energy Journal*, 5 (2) pp: 69-80. **H Index 9**
36. Ramana, P V, **Singh, R.N** and Patil, K.N; (2004) “Development and performance evaluation of a producer gas based system for hardening of steels” *International Journal of Renewable Energy* 30(5) pp: 773 – 782.
37. **Singh, R N** (2004) “Equilibrium moisture content of biomass briquettes”, *Biomass & Bio-energy International Journal*, 26 pp: 251-253.
38. **Singh R N**, Bhoi Prakash and Sharma A M (2003) “ SPRERI experience on gasification of biomass briquettes ” *Proc. of International conference on Energy Technology for Sustainable Development*, held at Jaipur during 8-10 November 2003, pp: 147- 150.
39. Patil K.N; **Singh R.N.** and Saiyed S.U. (2002) “Case study of SPRERI natural draft gasifier installation at a ceramic industry” *Biomass & Bioenergy*, 22 pp: 497-504.
40. Patil K N, Ramana, PV and **Singh R N.** (2000) “Performance evaluation of Natural Draft Agricultural Residues Charcoal System”. *Biomass and Bio-energy*, 18 pp: 161-173.

Research Articles (Published in National Journal)

1. **R.N. Singh** and Tashmeer Khan. Biomethanation Plant of Choithram Vegetable Market, Indore: A Case Study. *Journal of Biofuels* 2019; 10(1): 12-19. **ISSN: 0976-3015**
2. Satyendra Tripathi and **R.N. Singh** (2019) “Impact of Wheat Crop Residue Burning on Micro-Climate of a Rural Area” *Climate Change and Environmental Sustainability* (April 2019) 7(1): 34-40.
3. **Singh R N**, Jagdish Damor (2019) “Feasibility Study of Mahua (*Madhuca Indica*) Fruit Pulp as a Feedstock for Bioalcohol Industry. *Journal of Alternate Energy Sources and Technologies-STM Journal*. 10(1): 32–35p **Approved By UGC.**
4. D Asha, **Singh R N** (2018) “Study the Impact of Operating Parameters of Hydroxides for Cleaning of Producer Gas” *Journal of Biofuels* Vol. 9(2), PP: 99-1104, Jul-Dec 2018.
5. Singh R. N. and N.S.L. Srivastava (2018) “Development and Performance Evaluation of 300L per Batch Capacity Pilot Plant for De-waxing and De-gumming of Jatropha Oil”, *Journal of Biofuels* Vol. 9(2), PP: 105-112, Jul-Dec 2018. **ISSN: 0976-3015.**
6. **Singh R. N.** and Sharma Shaishav (2018) “Plant Oils (De-Waxed & De-Gummed) as a Fuel for Diesel Engine” *Invertis Journal of Renewable Energy*, Vol.8 (1) PP: 1-9.
7. Sharma Shaishav and **R. N. Singh** (2017) “Utilization of Fish Excreta for Algae Production” *Journal of Alternate Energy Sources and Technologies, STM Journal* Vol.8 (2) PP: 9-17 STM.
8. **Singh R N**, Mishra A and Asha D (2017) “Optimization of operational parameters for production of Bio-ethanol using Mahua flower and food processing waste water” *Invertis Journal of Renewable Energy*, Vol.7 (4) PP: 218-223.
9. **Singh R N**, D Asha and Singh Amit (2017), “Utilization of By-product of Mahua fruit (*Madhucaindica*) for Energy purposes” *Journal of Biofuels* Vol. 8(2), PP: 81-84, Jul-Dec 2017.
10. D Asha, **Singh R N** and Yasin A (2017), “The Effect of Potassium Hydroxide (KOH) Concentration, Temperature and Resistance Time on Quality of Producer Gas” *Journal of Biofuels* Vol. 8 (1), PP; 15-19, Jan-June 2017
11. Mishra Amit Kumar, **Singh R N** and Mishra Pratyush Pingita (2015) “Effect of Biomass Gasification on Environment” *Mesop. Environ. j.* Vol.1 (4):39-49.

12. **Singh R N**, and Pathak B S (2014). Monitoring Emission Characteristics of CI Engine Using Methyl Esters of Non-edible Oil. *MGRED Journal* Vol. 1(1) PP: 13-23, ISSN 2393-9605.
13. Trpathi Satyendra, **Singh R N**, Soni D K, Jagan P and Chatuvedi Annop (2012) Impact of Agricultural/ Biomass residues Burning on Atmospheric Particulate Concentration and Human Health - A Review” *Our Earth* Vol. 9 (3) PP8-14.
14. **Singh, R N** and N S L Srivastava (2009) “Long term CI engine test of blended Jatropha oil” *Aishwarya Journal of Research and Development Studies* (Accepted for publication).
15. **Singh R N**; Singh, S P and Pathak, B S (2007) “Investigation on quality of exhaust gases as a result of partial and full replacement of blended methyl ester of Jatropha oil by producer gas” *SESI Journal* 17 (1 & 2) pp: 1-11.
16. **Singh R N**; Singh, S P and Pathak, B S (2007) “ Performance of CI engine as a result of progressive replacement of blended plant oil by producer gas” *J of Agril. Engg.* 44 (2) pp: 20-27.
17. **Singh R N**, Bhoi P R and Sharma A M (2006) “Studies on storage and use of biomass briquettes in combustion and gasification reactor” *J of Agril. Engg* 43 (1) pp: 61-65.
18. **Singh R N**, Sharma A M, Jena U, Bhave A G and Vyas D K (2006) “Case study of open core down draft gasifier system for cooking applications” *J of Agril. Engg Today*, 30 (3) pp: 26-32.
19. Patil, K.N; **Singh, R.N** (2004) “Field testing and evaluation of SPRERI updraft gasifier burner system for industrial heat applications” *SESI Journal* 14 (1) pp: 25-33.
20. **Singh, R N** and Patil, K N (2001) “SPRERI method for quick measurement of moisture content of biomass fuels” *SESI Journal*, 11 (1) pp: 25 – 28.
21. **Singh, R.N.** and Patil, K.N. (2001) “Field evaluation of biomass natural draft gasifier based hot water system” *SESI Journal*, 11(2) pp: 1-7.
22. **Singh, R N.**, Patil, K N., and Ramana, P V (1999)” Performance evaluation of Biomass Gasifier based thermal back for solar dryer” *SESI Journal*, 9(2): 115-122.
23. Naravani, N B, Shakeel, A A, Singh N J and **Singh R N** (1997) “Effect of cylinder speed, feed rate and grain moisture on performance of pedal operated sunflower thresher” *KJAS*, 9(3): 558-561.

Research Articles (Presented in Seminar)

1. Aharwal V K and Singh R N (2018) ” Performance Evaluation of continuous Biomass fed Horizontal gasifier” paper presented at 9th International conference on Innovative Research in Technology, Pharmacy, Management, Science & humanities held at LNCT & S, Indore.
2. Aharwal V K, Singh R N and Asha D (2016)” Design and development of organic filter for removal of Tar and SPM” paper presented at 2nd National Symposium on Advances in Separation and Purification Science & Technology, held at Dept of Chemical Engineering, GHP Patel College of Engineering & Technology from 23-24 Sep. 2016.
3. Satyendra Tripathi and **R N Singh** (2015) “Impact of Wheat Residue Burning on Physical Properties of Black Soil” proceeding of International conference on Emerging Challenges in Biotechnology, Human Health and Environment, 8th Annual Convention of Association of Biotechnology and Pharmacy, organized at Devi Ahilya Vishwavidyalaya 48-51.

4. Shaishav Sharma, **R N Singh**, Anand Krishna Singh, Nilay Srivastava (2014). Growth measurement of algae sp. *Chlorella* in a simple and efficient Stirred Tank Photobioreactor. Proceeding of Emerging Challenges in Biotechnology, Human Health and Environment and 8th Annual Convention of association of Biotechnology and Pharmacy organized at Devi Ahilya Vishwavidyalaya from 18-20 December 2014.
5. Satyendra Tripathi and **R N Singh** (2014). "Impact of Wheat Residue Burning on Physical Properties of Black Soil" at International conference on Emerging Challenges in Biotechnology, Human Health and Environment & 8th Annual Convention of Association of Biotechnology and Pharmacy organized by School of Studies in Biotechnology, Devi Ahilya University, Indore from 18-20 December 2014.
6. J B Balwanshi, V Ahirwar, S Tripathi, S P Singh and **R N Singh** (2014) "An overview on solid biomass gasification technology in India" Management Effigy, Special Issue-National Conference On Innovative Trends in Applied Sciences, Humanities, Management and Environment 2014, held at Shri Vaishnav Institute of Technology & Science Indore (MP); pp:22-28.
7. **Singh R N** (2014) "Bio-Energy (Gasification Technology) for Sustainable Development: An Overview" Proceeding of National Conference On "Energy Sources for Sustainable Development- Issue and Challenges in Power Sector" held on 17-18 Feb 2014 at Shri Ram Group, Jabalpur (MP).
8. Satyendra Tripathi and **R N Singh** (2013) "Effect of Biodiesel residue on soil properties" poster presented in International Conference on Health, Environment and Industrial Biotechnology, BioSangam 2013 held at Motilal Nehru Institute of Technology Allahabad (UP).
9. Shukla Rajeev K and **Singh R N** (2013) "A Review on Energy Efficiency in Indian Cement Industry" presented in Environmental Concerns and Issues in Changing Business Scenario ISBN: 978-93-5126-332-6 PP: 67-71, held at Shri Vaishnav School of Business Management Shri Vaishnavsm Institute of Technology & Science, Indore.
10. Sharma Shaishav, Singh **R N** and Tripathi Satendra (2012) "Biohydrogen from Algae: Fuel of the future" presented in 2nd International Science Congress held at Vrindravan, UP on 8-9 December 2012.
11. Tripathi Satendra, **Singh R N** and Sharma Shaishav, (2012) "Emission from Crop/biomass residue burning risk to atmospheric quality: A Review" presented in 2nd International Science Congress held at Vrindravan, UP on 8-9 December 2012.
12. **Singh R N** and Sharma Shaishav (2012) "Different approaches of Biohydrogen production from Algae: A review " presented in National Symposium on Green Chemistry & Technology for Sustainable Development held at Department of Chemical Engineering, G. H. Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat on 24-25 February 2012.
13. **Singh R N** and Trpathi Satyendra (2012) "A Review on Crop residue burning and other management options for crop residue" presented in National Symposium on Green Chemistry & Technology for Sustainable Development held at Department of Chemical Engineering, G. H. Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat on 24-25 February 2012.
14. Tripathi Satyendra and **Singh R.N.** (2011) "Crop residue burning is a boon or curse for soil- A Review" presented in National conference on Recent Advancements in science,

Technology & Management, held at Vindhya Institute of Technology, Indore on 12-13 November 2011.

15. **Singh R N** and Sharma Shaishav (2011) “Development of suitable Photobioreactor for Algae production - A review” Poster presented at International Workshop on Algae Technology, hydrogen production and use of algae biomass, held at Kolkata on 17-18 October 2011.
16. **Singh R N (2011)** “Plant oil as fuel for CI engine” presented at National senior on ‘Renewable Energy Resources and Energy Efficiency, held at Indore Institute of Science & Technology Indore on 17-18th March 2011.
17. **Singh R N (2011)** “Jatropha as an Energy Crop” presented at National Conference on ‘Energy Conservation for sustainable Development’ held at Gyan Ganga Institute of Technology & Science Jabalpur on 18th -19 Feb 2011.
18. **Singh R N (2011)** “Monitoring emission characteristics of CI engine using methyl esters of non-edible plant oil” Proc. of National Conference on Climate Change and Sustainable Development, held at Rajasthan Institute of Engineering and Technology, Jaipur. PP: 11-15.
19. **Singh R N (2011)** “Performance of diesel engine with blended Jatropha oil” presented at 1st India International Energy Summit, held on 28th -30th January 2011 at Nagpur.
20. **Singh R N (2009)** “Jatropha oil as fuel for cooking, lighting and CI engine application” presented at 2nd Bhartiya Vigyan Sammelan, held on 1st - 3rd December 2009 at DAVV, Indore, pp; 68.
21. Singh Ramkishore, Singh S P and **Singh R N (2009)** “Energy saving potential in Indian Cold Storage” presented at 2nd Bhartiya Vigyan Sammelan, held on 1st - 3rd December 2009 at DAVV, Indore, pp; 68.
22. **Singh R N**, Sharma A M, Jena U, Bhave A G and Vyas D K (2007) “SPRERI'S experience of using open core down draft gasifier system for community kitchen - a case study" Presentation in 41st ISAE Convention & Symposium, held at CAET, Junagarh.
23. **Singh R N**, Vyas D K, Srivastava N S L and Narra Madhuri (2007) “Holistic approach to utilize all parts of Jatropha curcas fruit for energy ‘Presentation in International conference on Sustainable Agriculture for food, Bio-energy and Livelihood Security’ held at JNKV, Jabalpur on 14-16 February.
24. **Singh R N**; Singh, S P and Pathak, B S (2006) “Extent of replacement of blended plant oil by producer gas” Proceeding of 40th ISAE Convention & Symposium, January 19-21, 2006, Coimbatore.
25. **Singh, R. N.** and Vyas, D. K. (2005). “Effect of de-waxing, de-gumming, filtration and transesterification on characteristics of Jatropha oil”. Proceeding of 39th ISAE Convention & Symposium, March 09-11, 2005, Hyderabad.
26. Jena U, **Singh, R. N.** and Patel J B (2005). “Down draft gasification of cashew nut shells”. Proceeding of 39th ISAE Convention & Symposium, March 09-11, 2005, Hyderabad.
27. **Singh R N**, Singh S P and Pathak B S (2004) “Performance of CI engine using multi fuel (Karanja oil, diesel and producer gas)” Proc. of national conference on Bio-diesel _ A sustainable Renewable fuel for India, held at Udaipur during 23-24 September, 2004.

28. **Singh, R N** and Patel, S R (2001) “Potential feedstock for gasifier – Biomass Briquettes” Proc. Of Two Day National Workshop on Role of Renewable Energy in 21st Century held at B N College of Engineering, Pusad (MS) pp: 1-11.
29. Patil, K N., **Singh R N** (1999) “Development of a Biomass Feeding Mechanism for Continuous Operation of Updraft Gasifier”. Presented in XIIth Workshop of Indian Society of Agricultural Engineers held at Hisar.
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