Annexure-III

List of Publication

International Journal

1. R. Swaroop, Bency George and **P. K. Sadhu**, "A Novel Design for Automatic Tuning of PID Controller Using Sugeno Based Fuzzy Logic", International Journal of Computational Cognition, vol.8, no.3, September, 2010, pages 104-108

2. R. Swaroop, Bency George and **P. K. Sadhu**, "A Novel Design for Automatic Tunning of PID Controller using Fuzzy Logic"- International Journal of Computational Intelligence Research, Volume 6, Number 1, (2010), pp. 89-96.

3. R. Swaroop and **P. K. Sadhu**.,"Fuzzy Logic Design for Packet Switched Network"- International Journal of Wireless Network and Communication, Volume 1, Numbers 1, (2009), pp. 79-92.

4. Mohanta Dusmanta Kumar, **Sadhu Pradip Kumar,** Chakrabarti R.,"Safety and reliability optimisation of captive power plants using intelligent maintenance scheduling"- International Journal of Reliability and Safety, Volume 1, Numbers 1-2, 31 August 2006 , pp. 155-167(13)

5. Dusmanta Kumar Mohanta, **Pradip Kumar Sadhu**, R. Chakrabarti, "Deterministic and stochastic approach for safety and reliability optimization of captive power plant maintenance scheduling using GA/SA-based hybrid techniques: A comparison of results" – International Journal of Reliability Engineering and System Safety 92 (2007), Science Direct, Elsevier; 7Th February 2006, P.P. – 187-199.

6. Dusmanta Kumar Mohanta, **Pradip Kumar Sadhu**, Rupendranath Chakrabarti, "Fuzzy Markov Model for Determination of Fuzzy State Probabilities of Generating Units Including the Effect of Maintenance Scheduling" – IEEE Transactions on Power Systems ; Volume 20, Number 4, November 2005, P.P. – 2117-2124.

7. **Pradip Kumar Sadhu**, Narendranath Jana, Rupendranath Chakrabarti and Dilip Kumar Mittra "A Unique Induction Heated Cooking Appliances Range Using Hybrid Resonant Converter" – International Journal of Circuits, Systems and Computers, World Scientific, Volume 14, Number 3, June 2005, P.P. – 619-630.

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10. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "Microprocessor – based energy efficient sterilization for surgical instrument using a new generation inverter topology" – Journal of Energy, Heat & Mass Transfer, Asia and the Pacific; Vol 23, Number 1, March 2001, P.P. – 39-53.

11. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "Microprocessor – based energy efficient dry and wet sterilization for surgical instruments" – accepted for publication in International Journal of Kuwait Foundation for the Advancement of Science, Kuwait University, Kuwait.

National Journal

1. R. P. Gupta, Dr. U. Prasad, **Dr. P. K. Sadhu**, Dr. N. Pal, "Efficient Lighting System for Underground Coal Mines using LED" – Journal of Institution of Engineers (I), Mining Engineering Division, Vol 91, August 18, 2010, P.P. – 21-24.

2. **P. K. Sadhu**, N. Pal and Dola Sinha, "An Energy Efficient MCT based H.F. Inverter for Operating CFL from Solar PV Charged Batteries" – Journal of IEEMA, Mumbai; Volume 1, No – 11, July 2010, P.P. – 84-88.

3. N. Pal, **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, "Choice of Pan Material in Radio-frequency Mirror Inverter Induction Cooker" – Journal of Institution of Engineers (I); Vol 89, March 18, 2009, P.P. – 09-18.

4. **Dr. P. K. Sadhu**, Dr. S. Chattopadhyaya, Dr. T. K. Chatterjee and Dr. D. K. Mittra, "Online Monitoring and Actuation for Curing of Rubber Conveyor Belts" – Journal of Institution of Engineers (I), Mechanical Engineering Division;; Vol 89, October 17, 2008, P.P. – 31-35.

5. Dr. R. N. Chakrabarti, D. K. Mohanta, **Dr. P. K. Sadhu**, "Possibilistic Approach for Evaluation of Forced Outage Rates of Generating Units including the Effect of Maintenance Scheduling" – Journal of Institution of Engineers (I); Vol 87, March 2007, P.P. – 48-52.

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8. N. Pal, **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, "A Comparative Study of HF Mirror Inverter for Induction Cooker through Real-time and PSPICE Simulation" – Journal of Institution of Engineers (I); Vol 86, March 2006, P.P. – 268-274.

9. **Dr. P. K. Sadhu**, S. Chattopadhyaya, Prof. (Dr.) D. K. Mittra**,** "On-line Monitoring and Control System for Vulcanization of Truck Tyres" – Journal of Institution of Engineers (I), Mechanical Engineering Division; Vol 86, January 2006, P.P. – 175-177.

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12. **Dr. P. K. Sadhu**, Swaroop R. and Prof. (Dr.) R. N. Chakrabarti, "A novel logic based automation concept on locker operation for banking industry" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXIII, No 5, May 2004, P.P. – 19-23.

13. **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, Mrs. N. L. Nath, Naveen.K. Batchu, Smita Kumari, Kumari Rimjhim**,** "Analysis of a series resonant superimposed inverter applied to induction heating" – Journal of Institution of Engineers (I); Vol 84, March 2004, P.P. – 214-217.

14. **P. K. Sadhu**, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A new generation energy efficient sterilization plant for surgical instruments" – The Indian Journal of Hospital Pharmacy, New Delhi; Vol XL, No 2, March-April 2003, P.P. – 60-64.

15. Swaroop R., **Prof. P. K. Sadhu**, Prof. (Dr.) S. K. Mukherjee, Prof. (Dr.) R.N. Chakrabarti and Prof. (Dr.) B. M. Karan, "The design of a new generation microprocessor–based interlocking device" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXII, No 8, Aug 2003, P.P. – 7-9.

16. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, B. M. Karan and Swaroop R. "A new generation PC–based interlocking device" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXI, No 8, Aug 2002, P.P.– 7-10.

17. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "High efficient contamination free clean heat production" – Journal of Engineering & Material Sciences, National Institute of Science Communication, New Delhi; Vol 9, June 2002, P.P. – 172-176.

18. **P. K. Sadhu**, R.N. Chakrabarti and S. P. Chowdhury, "A new generation fluid heating in non–metallic pipe–line using BJT and IGBT" – Journal of Institution of Engineers (I); Vol 82, March 2002, P.P. – 273-280. (Awarded Certificate of merit)

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20. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A new generation microprocessor – based series resonant inverter for induction heated cooking appliances" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXX, No 9, Sep 2001, P.P. – 10-15.

International Conference

1. Dola Sinha, Atanu Bandyopadhyay, **Pradip Kumar Sadhu** and Nitai Pal**,** "Optimum Construction of Heating Coil for Domestic Induction Cooker" – published in the proceedings of the International Conference on Modelling, Optimization and Computing, ICMOC 2010, NIT, Durgapur, India held on 28-30th October, 2010, organized by NIT, Durgapur, India. P.P. – 217 – 221.

2. Nitai Pal, **Pradip Kumar Sadhu**, Ayodhya Kumar and Upendra Prasad. 'Energy Efficient Solar CFL Lighting System using MOSFET Based High Frequency Inverter for Remote Areas.' published in the proceeding of The 2nd International Conference on Computer and Automation Engineering (ICCAE 2010) organized by IACSIT, Sichuan University and IEEE, Computational Intelligence Society, held in Suntec City, Singapore during February 26 - 28, 2010, Volume 5, P.P. – 646-649.

3. Nitai Pal, **Pradip Kumar Sadhu,** Ramjee Prasad Gupta and Upendra Prasad. 'Review of LED Based Cap Lamps for Underground Coalmines to Improve Energy Efficiency as Compared to Other Light Sources.' published in the proceeding of The 2nd International Conference on Computer and Automation Engineering (ICCAE 2010) organized by IACSIT, Sichuan University and IEEE, Computational Intelligence Society, held in Suntec City, Singapore during February 26 - 28, 2010, Volume 5, P.P. – 675-677.

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5. **Pradip Kumar Sadhu**, Netai Paul, Dola Sinha and Atanu Bandyopadhyay 'Energy Efficient Induction Heated Cooking – Range using MCT baesd Hybrid Resonant Converter.' published in the proceeding of The 2nd International Conference on Computer and Automation Engineering (ICCAE 2010) organized by IACSIT, Sichuan University and IEEE, Computational Intelligence Society, held in Suntec City, Singapore during February 26 - 28, 2010, Volume 5, P.P. – 637-641.

6. **P. K. Sadhu**, N. Pal, T. K. Chatterjee, R. P. Gupta and U.Prasad**,** "Energy Conservation and Economic Lighting System using Solid-state Cap Lamps in Underground Coal Mines" – published in the proceedings of the International Conference on "Ninth International Mine Ventilation Congress, 09th IMVC, New Delhi, India" held on 10-13th November, 2009, organized by Department of Mining Engineering, Indian School of Mines, Dhanbad, India. P.P. – 217 – 221, Technical Papers : Poster Session.

7. Nitai Pal, **Pradip Kumar Sadhu**, Dilip Kumar Mittra and Upendra Prasad**,** "Electrical Energy Conservation and Losses Management of Rotating Electrical Machines used in Underground Coal Mines" – published in the proceedings of the International Conference on "Ninth International Mine Ventilation Congress, 09th IMVC, New Delhi, India" held on 10-13th November, 2009, organized by Department of Mining Engineering, Indian School of Mines, Dhanbad, India. P.P. – 223 – 228, Technical Papers : Poster Session..

8. Nitai Pal, **Pradip Kumar Sadhu**, Dilip Kumar Mittra and Rupendranath Chakrabarti**,** "Role of Electromagnetic and Radio Frequency Noise Suppressor for High Frequency Inverter operated Induction Heating Equipment" – published in the proceedings of the International Conference on "Modeling and Simulation, MS'07 India" held on 03-05th December, 2007, organized by Department of Applied Physics, University of Calcutta, India. P.P. – 440 – 443.

9. **Pradip Kumar Sadhu**, Nitai Pal, Rupendranath Chakrabarti and T. K. Chatterjee**,** "Performance Analysis of H.F. Mirror Inverter for Energy Efficient Induction Cooking Appliance Range" – published in the proceedings of the International Conference on "Modeling and Simulation, MS'07 India" held on 03-05th December, 2007, organized by Department of Applied Physics, University of Calcutta, India. P.P. – 444 – 448.

10. **P. K. Sadhu**, T. K. Chatterjee, D. K. Mittra, S. Chattopadhyaya and Upendra Prasad **,** "A Novel PC-Based Cure Monitoring Process for Batch Production of Rubber Hose, V-Belts & Conveyor Belts" – published in the proceedings of the International Conference on "Emerging Trends in Electrical Engineering" held on 12-14th January, 2007, organized by Department of Electrical Engineering, Jadavpur University, Kolkata – 700 032. P.P. – 7

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14. **Dr. P. K. Sadhu**, Nitai Pal, Prof. (Dr.) R.N. Chakrabarti, Prof. (Dr.) D. K. Mittra, "A novel energy efficient heat transfer system for induction heated cooking – range using radio-frequency series resonant inverter" – published in the proceedings of Third International Conference on Energy Research & Development (ICERD-3) held on November 21-23, 2005, organized by Kuwait University & Ministry of Energy, Kuwait, Volume II, P.P. – 797-806.

15. Narendranath Jana, Nitai Pal, **Pradip Kumar Sadhu** and Rupendranath Chakrabarti, "Analysis of DC-link half-bridge resonant inverter used for induction cookers" – published in the proceedings of International Conference "PEITSICON-2005" held on 28-29 th January 2005, organized by IEE (UK), Calcutta Branch and Jadavpur University, Kolkata-32; P.P. – 258-261.

16. D. K. Mohanta, S. Khaitan, Dr. R. Chakrabarti, and **Dr. P. K. Sadhu** "Emerging trends in fuzzy based power system reliability analysis"–published in the proceedings of International Conference "ICET-2003" held on 19-21 th Dec 2003, organized by Kalinga Institute of Technology, Bhubaneswar, Orissa ; P.P. –19

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18. **P. K. Sadhu**, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan "Clean heat manufacturing by microprocessor control superimposed radio-frequency inverter" – published in the proceedings of International Conference on manufacturing "ICM-2002" held on 9-11th Aug 2002, organized by Department of Industrial and Production Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000; Volume 3

19. N. Sharma, A. K. Singh, M. Ganguli, S. K. Mukherjee, B. N. Das, B. M. Karan, **P. K. Sadhu** and R. N. Chakrabarti "Manufacturing of prosthetic limb using myoelectric or EMG signals" – published in the proceedings of International Conference on manufacturing "ICM-2002" held on 9-11 th Aug 2002, organized by Department of Industrial and Production Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000; Volume 1, P.P. – 654-664

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21. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "The design of microprocessor based series resonant inverter for a new generation contamination free induction heated medicinal plant" – published in the proceedings of International Conference "CIIC-2001" held on 13-15 th Dec 2001, organized by Department of Applied Physics, University of Calcutta, Kolkata; P.P. – 285-292

22. **P. K. Sadhu**, Prof. (Dr.) S. K. Mukherjee, Prof. (Dr.) R.N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "Microprocessor–based energy efficient dry and wet sterilization for surgical instruments" – published in the proceedings of International Conference "ICERD-2" held on 5-7 th November 2001, organized by Kuwait University, Kuwait.

23. **P. K. Sadhu**, Prof. (Dr.) R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A clean heat generation on fluid in non–metallic pipe–line using BJT and IGBT" – International Seminar on environmentally clean power generation technologies "CLEAN POWER" held on 29-30 th November 2000, organized by MECON Ltd, Ranchi; P.P. – 176-184.

National Conference

1. **P. K. Sadhu**, N. Pal, Mayank Gupta, Shubham Agarwal and Dola Sinha "Some Studies on Various Aspects of Drilling Technology using DC Motors" – published in the proceedings of the National Seminar on "Drills & Drilling – An Update (D & DU – 2010)" held on 23-24th September, 2010, organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad-826004, P.P. – 73-81.

2. N. Pal, **P. K. Sadhu**, Kumar Saurabh, Rahul, U. Prasad and R. P. Gupta "Review on Speed Control of DC Motors used in Mud Pumps of Drill Rig Equipment" – published in the proceedings of the National Seminar on "Drills & Drilling – An Update (D & DU – 2010)" held on 23-24th September, 2010, organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad-826004, P.P. – 163-167.

3. D. Sinha, S. Das, M. K. Mukherjee, A. Bandyopadhyay, **P. K. Sadhu** and N. Pal "Speed Control of Drill Motor for Different Types of Rock Mass According to their Drillability" – published in the proceedings of the National Seminar on "Drills & Drilling – An Update (D & DU – 2010)" held on 23-24th September, 2010, organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad-826004, P.P. – 103-108.

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5. Nitai Pal, **P. K. Sadhu**, T. K. Chatterjee and U. Prasad**,** "Role of electrical energy conservation and management in industries" – published in the proceedings of the National Seminar on "Crushing, Screening & Conveying CS & C - 2008" held on 11-12th Sep, 2008, organized by Department of Mechanical Engg. & Mining Machinery Engg., Indian School of Mines University, Dhanbad-826004, P.P. – 29-34.

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7. **P. K. Sadhu**, Nitai Pal, Rupendranath Chakrabarti and Tarun Kumar Chatterjee**,** "Circuit and Wave Analysis of a New Generation Radio Frequency Mirror Inverter Applied to Induction Heating" – published in the proceedings of the National Seminar on "Condition Monitoring Overview & Advanced Techniques COMOAT-06" held on 15-16th Sep, 2006, organized by Department of Mechanical Engg. & Mining Machinery Engg., Indian School of Mines, Dhanbad-826004, P.P. – 367-378.

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9. S. Chattopadhyaya, **P. K. Sadhu**, T. K. Chatterjee, D. K. Mittra and U. Prasad "Micro-processor based intelligent process control of vulcanization of steel cord belt conveyor" – published in the proceedings of the National Seminar on "Recent advances in theoretical and applied seismology" held on 20-21 th March, 2006, organized by department of Applied Mathematics, Indian School of Mines, Dhanbad-826004, P.P. – 21

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19. **P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "Design of new generation fluid heating in non–metallic pipe–line incorporating auto-tuning PID control based PWM resonant IGBT inverter" – published in the proceedings of National Seminar on Mechatronics on manufacturing system "MACMAN-2000" held on 25-26 th March 2000, organized by BIT (Mesra) & Institute of Engineers (I), Ranchi

20. **P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "New generation fluid heating in non–metallic pipe–line using high-frequency load resonant BJT inverter" – published in the proceedings of National Seminar on applied systems engineering and soft computing "SASESC-2000" held on 4-5 th March 2000, organized by Faculty of Engineering Dayalbagh Educational Institute, Agra; P.P. – 354-359

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