

## BIO DATA

NAME **Dr. SUNIL KUMAR**

DATE OF BIRTH 15/08/73

**PERMANENT ADDRESS:-** KUMHAR TOLI, CHUNNA BHATTA

BHAWANI NAGAR, PATH NO-2

RANCHI (JHARKHAND)-834001

**PRESENT ADDRESS:-** DEPARTMENT OF MECHANICAL ENGINEERING

BIT SINDRI, PO+ PS- SINDRI INSTITUTE, SINDRI

DHANBAD (JHARKHAND)-828123

skumarbit@gmail.com

## EDUCATIONAL QUALIFICATIONS

Degree	Institute/University	Year of Passing	Specialization
PhD	B.I.T.S indri/VBU Hazaribag	October 2017	Renewable Energy(solar)
M.Tech	B.I.T.Sindri VBU Hazaribag	Sept 2009	Mech Engg (Heat Power)
PGDC in Thermal Power Plant Engg	NPTI Nagpur	1998	Power Plant
B.Sc Engg	M.I.T Muzaffarpur/BSBRA Bihar Univ	1996	Mechanical Engg

## **Employment Record**

Institute	Designation	Period
B.I.T.Sindri	(Assistant Professor)	07/09/2006 to 06/09/11 grade pay 6000
	(Assistant Professor)	07/09/11 to 06/09/2016 Grade pay 7000
	(Assistant Professor)	07/09/2016 to till date Grade pay 8000

## **Research Guidance (M Tech)**

1. Performance and condition assessment of condenser in power plant.
2. Construction and Fabrication of Prototype Salt Gradient solar pond.
- 3 Performance investigation of prototype salt gradient solar pond with corrugated bottom and twisted tapes.
- 4 Activity of different inoculation on food waste anaerobic digestion system.
- 5 Waste heat recovery management using thermoelectric generator system.

## **Short term training program me**

- 1 Developing personal and professional effectiveness at XLRI Jamshedpur on 16-24 December 2006 (02 week)
- 2 Harnessing Renewable Energy- state of the art at N.I.T.Patna on 16-29 June 2007 (02week)
- 3 Pedagogy at B.I.T .Sindri 14-19 October 2008 (01 week)
- 4 Non Conventional machining process at NITTTR Kolkata 20-24 Oct 2008 (01 week)
- 5 Teaching Computer graphics at I.I.T. Delhi on 14-25 June 2010 (02week)
- 6 Faculty Development Program me on Entrepreneurship 13- 25 Dec 2010 at B.I.M.TECH Greater Noida. (02 week)
- 7 Faculty Development Program me on Entrepreneurship 27 Dec – 07 Jan 2011 at K.G.V. K .Ranchi (02 week)
- 8 Machining with CNC Turning centre 02 July-06 July 2012 at NITTTR Kolkata (01 week)
- 9 Performance Enhancement Skills 23 Jul–Aug 2012 at B.I.T Sindri (02 week)
- 10 Personality Developments 23 Oct – 06 Nov 2015 at B.I.T. Sindri (02 week)
11. How to write Thesis or Research paper 30 May -03 June 2016 at NITTTR Kolkata (01 week)
- 12 ICT skills for teachers organized by Electronics and ICT Academy, N.I.T.Patna in collaboration of B.I.T.Sindri on 19 Jun- 24 Jun 2017. (01 week)
13. Recent Advances in Micro fluidics; Development Application and Analysis (RAMDAA-2017) Organized by N.I.T.Durgapur west Bengal on 06 December-10 December 2017 (01 week)

- 14** Summer Training Programming on Active learning at I.I.T Gandhi-Nagar on 18-22 June 2018.
- 15** One week FDP on Advancement and Application of soft computing in Electrical system jointly organized by Electronics and ICT Academy, N.I.T.Patna and Department of Electrical Engineering B.I.T.Sindri from 13-17 July 2018.
- 16** One week workshop on Flow and Process simulation in Process Industries from 29 October to 02 November 2018 at B.I.T.Sindri
- 17** One week workshop on Recent Advances in Manufacturing (RAIM-2018) organized by Department of Mechanical Engineering in collaboration with SIMENS Coe sponsored by TEQUIP III on 27 November to 01 December 2018 at B.I.T.Sindri.
- 18** One week Faculty Development Program on DSP and Sensor organized by Electronics and ICT Academics and B.I.T.Sindri on 10 December to 14 December 2018
- 19** One week Faculty Development Program on Natural Language Processing jointly organized by Electronics and ICT Academics and B.I.T.Sindri on 06 January to 10 January 2020

### **National Seminar, Workshop attended**

- 1 National** workshop on industry –institute interaction 13 – 14 July 2007 at B.I.T. Sindri
- 2 National** workshop on intellectual property rights (IPR 2013) on 26 October 2013 at BIT Sindri
  - 3** National seminars on Environmental issues, protection, conservation and management (EIPCM 2016) on 26-27 Feb 2016 at B.I.T.Sindri.
  - 4** Participated in two days workshop on " Introduction to Robotics" on 08<sup>th</sup>- 09<sup>th</sup>- may 2018 at IIT Mumbai.
  - 5** National conference on science and technology of special steels and Nano materials on 17-18 Feb 2018 at B.I.T.Sindri
  - 6** Workshop on outcome based education (OBE)and Accreditation sponsored byTEQIP Phase 3 during 16 Mar-17 Mar 2017at B.I.T.Sindri
  - 7** Participated in the workshop on Understanding Metallurgy of steel for its effective utilization (UMSU-2018) on 27-28 october 2018 at B.I.T.Sindri.
  - 8** Participated in the workshop Innovation for Sustainable Energy system (ISES-2019) on 21<sup>st</sup>Sept organized by The Institution of

Engineers (India) and TEQUIP III B.I.T.Sindri in association with department of Electrical Engineering B.I.T.Sindri and CIMFER Dhanbad.

- 9 Participated in the Entrepreneurship Summit -2019 organised by startup cell and Institute innovation council B.I.T.Sindri from 15<sup>th</sup>-17<sup>th</sup> November 2019 at B.I.T.Sindri
- 10 Two week course on Digital Transformation in Teaching and learning Process organized by IIT Bombay on 16<sup>th</sup> March to 30<sup>th</sup> March 2020

### **Research paper publication**

- **1 sunil kumar and s.k.singh** Effect of insulation and transparent glass cover on the performance of the salt gradient solar pond ,International Journal of research in Engineering and science (e issn 2320-9364) vol 1 issue 2 June 2013 pp 01-04
- **2 sunil kumar and sk singh** Effect of thermal conductivity of salt water and bottom reflectivity on the performance of the salt gradient solar pond, VSRD International Journal of Mechanical, Civil ,Automobile Production Engineering (e issn 2249-2208) vol 3 july 2013 pp 241-244
- **3 sunil kumar and sk singh** Impact assessment of salt gradient solar pond against global energy crisis, International Journal of Engineering and Management Research (e issn 2250-0758) vol 4 issue 2 April 2014 pp 88-91
- **4 sunil kumar, sksingh and ukpaswan** comparative analysis of performance of salt gradient solar pond with conventional (flat) and corrugated bottom.International journal of Mechanical Engineering and Technology. (I ssn0976-6340) vol 5 issue 4 April 2014 pp 194-198
- **5 sunil kumar and sksingh** Experimental investigation of performance of prototype salt gradient solar pond with corrugated bottom and twisted tapes .International Journal of Mechanical Engineering and Research (i ssn 2249-0019) vol 5 issue 1 2015 pp 1-8
- **6 Sunil kumar and sandeep kumar** Activity of different inoculation on food waste Anaerobic digestion system of B.I.T.Sindri in International Research journal of Engineering and Technology.(IRJET) e-issn 2355-0056,p-issn 2395-0072 vol 4 issue 2 February 2018.
- **7 Sunil Kumar and sandeep Kumar**, Role of various inoculation on food waste anaerobic digestion system, International journal of advanced

technology in engineering and science. (Issn-2348-7550,) vol 5 issue 07 July 2017

- **8.** Sunil Kumar and Niranjan kumar, Waste heat recovery management using thermoelectric generator system, International journal of advanced technology in engineering and science.(issn-2348-7550) vol 5 issue 07 July 2017
- **9** Sunil Kumar and Niranjan kumar, Waste heat recovery management using thermoelectric system ,Journal of Industrial Engineering and its Application.vol 02 issue 02 July 2017.
- **10** Sunil kumar and k.k.sharma “Performance analysis of a lowcost solar dish collection” in International journal for Research in Engineering Application and Management 2018
- **11** sunil kumar and kksharma “comparison between single and series low cost parabolic solar disc collector “in International journal of Management Technology and Engineering.vol 8 issue ix September 2018.
- **12 Sunil kumar and Ravi kumar Yadav** Investigation on Recycling Food waste on Household and Hostels at B.I.T.Sindri campus in International journal of Management Technology and Engineering vol 8, issue xi November 2018
- **13 sunil kumar and Ravi Shankar Gupta** Effect of Nano Fluids particles for Enhancing the rate of heat transfer ,International journal of Management Technology and Engineering vol 09 issue viii August 2019

#### **Paper presented at conference and seminars**

- **1 sunil kumar and sksingh** National seminar on Energy and Environment for sustainability (EES 2013) study of social costs of solar energy ISBN 978-93-82880-18-9 on 16<sup>th</sup> -17<sup>th</sup> march 2013 at BIT Sindri
- **2 sunil kumar and sksingh** International conference on smart ,structure and system (ISSS -13) ISBN NO 978-24673-6240-5 Prediction of performance ,temperature and salinity profiles in prototype salt gradient solar pond on 28<sup>th</sup> -29<sup>th</sup> March 2013 Savitha Engg college Chennai.
- **3 sunil kumar and sksingh** All India seminar on Recent advancement in manufacturing and its management (RAMM-2014) Solar Energy for 21<sup>st</sup> century, looking towards future on 07-08 Feb at B.I.T.Sindri

- **4 sunil kumar and sksingh** All india seminar on Recent advancement in Manufacturing and its management (RAMM-2014) the effect of Environment air Pollution on 07-08 Feb at B.I.T.Sindri
- **5 sunil kumar and sksingh** International seminar on Recent Development on Renewable Energy and sustainable Development at **ROYAL UNIVERSITY OF BHUTAN**, Enhancement in thermal performance of salt gradient solar pond with corrugated bottom ,twisted tapes ,and booster mirrors on 15<sup>th</sup>-17<sup>th</sup> June2015
- **6 sunil kumar and sksingh** 1<sup>st</sup>- International conference on computer and electronics engineering (ICCEE-2016) Thermo hydraulic performance of solar water heater with twisted tapes and booster mirrors on 9<sup>th</sup>- 10<sup>th</sup>Jan 2016 at Hyderabad.
- **7 Sunil kumar and sandeep kumar**,4<sup>th</sup> International conference on Emerging trends in Engineering Technology, science and Management (ICETSM 17) Role of various inoculation on food waste anaerobic digestion system ISBN no 978-9386171-54-2 on 16<sup>th</sup> July 2017 at IETE (Institution of Electronics and Telecommunication Engineers,Pankha road,janakpuri New-Delhi
- **8 Sunil kumar and Niranjan kumar**,4<sup>th</sup> International conference on Emerging trends in Engineering Technology, science and Management (ICETSM 17) Waste heat recovery management using thermo-electric Generator system ISBN no 978-9386171-54-2 on 16<sup>th</sup> July 2017 at IETE (Institution of Electronics and Telecommunication Engineers,Pankha road,janakpuri New-Delhi.
- **9 Sunil kumar and santosh Ekka** International conference on Energy, Materials and Information Technology (ICEMIT-2017) Study of performance of salt gradient solar pond on 23-24 December 2017

Co sponsored by DST-SERB-INDIA at Amity University Jharkhand.

#### **Other responsibilities-**

- 1 Asst Professor in charge Heat Engine Lab (from 24/01/08)
- 2 Asst Professor in charge Solar Energy Lab (from 09/11/06-05/02/15)
- 3 Asst Professor in charge Academic (from 15/07/11-30/04/16)
- 4 Asst Public Information officers (from 24/01/12)
- 5 Hostel Superintendents (from 12/05/11 -30/11/15)
- 6 Hostel Superintendents (from 2/05/18 –07/12/2019)
- 7 Professor in charge Transport

#### **Membership of Professional bodies-**

- 1 Associate member of Institution of Engineers (INDIA) (AM 099076-3)

2Life membership Indian Society of Technical Education  
(ISTE)(LM627840

Editorial board member in International journal of Engineering and  
Management Research.

Reviewer in the peer review process for Global Research and  
Development Journal