

CURRICULUM VITAE

Dr. SOM NATH SAHA

Assistant Professor
Mechanical Engineering Department
BIT Sindri, Dhanbad, Jharkhand.



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ACADEMIC & PROFESSIONAL QUALIFICATION

- **Ph.D.** in Mechanical Engineering “*Investigation of thermal performance of double flow corrugated absorber solar air heaters*” from NIT Jamshedpur (2014 - 2018).
- **M.Tech** in Underground Space Technology from ISM (IIT) Dhanbad (2011-2013).
- **B.Tech** in Mechanical Engineering from R.V.S. College of Engineering & Technology, Jamshedpur (Ranchi University) (2006 – 2010).

Degree	University/Institution	Year of passing	Division
Ph.D.	NIT Jamshedpur	2018	–
M.Tech.	ISM Dhanbad, now IIT(ISM) Dhanbad	2013	First (8.1)
B.Tech.	RVS College of Engineering & Technology.	2010	First (8.1)
I.Sc.	College of Commerce, Patna	2005	Second (54.0 %)
Matric	JNV Sahibganj	2003	First (78.6 %)

Area of Specialization: Heat Transfer, Thermodynamics, Solar Energy, Solar Air Heater.

Subject Taught:

UG:- Engineering Mechanics, Fluid Mechanics, Thermodynamics, Refrigeration and Air-conditioning, Project Management, Auto (CAM), Robotics, Engineering Drawing.

ACADEMIC & ADMINISTRATIVE EXPERIENCE

Sl. No.	Post Held	Name of Organisation	Duration
1.	Assistant Professor	BIT Sindri, Dhanbad	Jan. 2018 – Present
2.	Departmental GATE Co-ordinator	BIT Sindri, Dhanbad	Feb. 2018 – Sep. 2021
3.	Assistant Training In-Charge	BIT Sindri, Dhanbad	April 2018 – Sep. 2021
4.	Duty Concerning TEQIP-III Activities	BIT Sindri, Dhanbad	July 2018 – Sep. 2021
5.	Assistant Hostel Warden	BIT Sindri, Dhanbad	August 2018 – July 2019

PUBLICATIONS:**International Journal:**

Sl. No.	Title of the Paper	Name of the Journal	Vol/No.	Publication Year	Pages
1	Performance Analysis of Double Flow Double Exposure Solar Air Heater	Journal of Mechanical Science and Technology	32 (3)	2018	1407 – 1414
2	Energy and Exergy Analysis of Double Flow Corrugated Absorber Solar Air Heaters	International Energy Journal	17 (4)	2017	171 – 184
3	Performance Evaluation of Corrugated Absorber Double Flow Solar Air Heater Based on Energy, Effective and Exergy Efficiencies	International Journal of Mechanical and Mechatronics Engineering IJMME-IJENS	17 (01)	2017	63 – 76
4	Analysis of Thermohydraulic Performance of Double Flow V-Corrugated Absorber Solar Air	International Energy Journal	16 (3)	2016	131-142

	Heater				
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International Conference:

Sl. No.	Title of the Paper	Name of the Conference	Vol/No.	Publication Year	Pages
1	Experimental Investigation of Single Pass Solar Air Heater With Galvanized Iron Absorber Plate and Spring Turbulators	International Conference on aspects of Materials and Mechanical Engineering (2 nd ICMME 2023)		2023	
2	Flow Analysis of Vertical Axis Wind Turbine Under Turbulent Wind Generated on Expressways	Net-Zero Emission Technologies for Sustainable Development: Challenges & Opportunities (NOET-2023)		2023	
3	A Comparative Review on Electric Vehicles and Hybrid Vehicles	2000 1 st IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDeA 2022)		2022	
4	Thermal Performance of Single and Double Exposure Solar Air Heaters	International Conference of Advance Research & Innovation (ICARI) 2020		2020	
5	Thermohydraulic Performance of Double Flow Solar Air Heater with Corrugated Absorber	ICSPST 2017: 19th International Conference on Solar Power Systems and Technology, 20-21		2017	

		July, Paris, France			
6	Exergy Based Performance Analysis of Double Flow Solar Air Heater with Corrugated Absorber.	ICSREE 2017: 19 th International Conference on Sustainable and Renewable Energy Engineering, 18-19 December, Bangkok, Thailand.		2017	
7	A Parametric Study on the Performance of Double Glass Double Flow Solar Air Heater	GCRE-2016. 04-06 March, NIT Patna		2016	

National Journal:

Sl. No.	Title of the Paper	Name of the Journal	Vol/No.	Publication Year	Pages
1	Thermal and Thermohydraulic Performance of Double Flow Flat Plate and Corrugated Absorber Solar Air Heaters	Journal of Energy and Environmental Sustainability	3	2017	56 – 61
2	Analysis of the Fraction of Mass Flow Rate on the Performance of Double Flow Solar Air Heater	Journal of Thermal Engineering and Applications	4 (2)	2017	18 – 26

National Conference:

Sl. No.	Title of the Paper	Name of the Journal	Vol/No.	Publication Year	Pages
1	A Comprehensive Study of Energy and Exergy Performance of Double Flow Flat Plate and Corrugated Absorber Solar Air Heaters	Conf. on Mechanical Engineering & Technology, 8 th April, IIT BHU		2017	

2	Performance Analysis of Single and Double Flow Solar Air Heaters.	NCESG 2016. 29-30 July, RVSCET Jamshedpur		2016	
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CONFERENCE/ WORKSHOP/ SEMINAR ORGANIZED

Sl. No.	Title of Conference/ Workshop/ Seminar	Name of Coordinator	Funding/ Sponsoring Agency	Date of Conference/ Workshop/ Seminar	No. of Participants
1	Emerging Trends and Technology in Mechanical Engineering	Dr. Som Nath Saha Dr. Sunil Kumar	TEQIP-III	08.07.2019 – 12.07.2019	40
2	Recent Advances in Manufacturing	Dr. J. N. Mahato Dr. R. K. Nayak	TEQIP-III	27.11.2018 – 01.12.2018	40

SYMPOSIUM/ WORKSHOP/ SEMINAR ATTENDED

Sl. No.	Title of Symposium/ Workshop/ Seminar/ Short term Courses	Date	Organizing Institute
1	Water Resources Management: A shift from awareness to consciousness	18 th – 19 th December 2019	BIT Sindri, Dhanbad
2	Entrepreneurship Summit – 2019	15 th – 17 th November 2019	BIT Sindri, Dhanbad
3	Water Scenario of Dhanbad District: Emerging Challenges	22 nd July 2019	BIT Sindri, Dhanbad
4	Recent Advances in Civil Engineering	7 th – 11 th December 2018	BIT Sindri, Dhanbad
5	Understanding Metallurgy of Steel for its Effective Utilization	27 th – 28 th October 2018	BIT Sindri, Dhanbad

6	Manufacturing Automation, Robotics & Factory of Future	03 rd – 07 th October 2018	BIT Sindri, Dhanbad
7	Outcome Based Education and Accreditation	16 th – 17 th March 2018	BIT Sindri, Dhanbad
8	Faculty Development Programme	31 st January – 04 th February 2018	IIT Madras
9	Green Chemistry and Sustainable Development	17 th – 18 th March 2017	NIT Jamshedpur
10	Advanced Solar Photovoltaic Systems	18 th – 22 nd April 2016	NIT Jamshedpur

PROJECT:

- **Principal Investigator** of the project “*Design and development of a solar-powered hydraulically boosted three-wheeled passenger vehicle*” **sponsored by NPIU under TEQIP Collaborative Research Scheme**. The cost of project is Rs. 1547000/-.

GATE: GATE qualified in 2011.

PERSONAL PROFILE

Father’s Name : Late Dependra Nath Saha
Date of Birth : 10th Nov 1986
Languages Known : Hindi, English and Bengali
Permanent Address : S/O- Late Dependra Nath Saha, P.O.+P.S.- Rajmahal,
Dist.- Sahibganj, State- Jharkhand, Pin Code 816108.

Date:

Place: Dhanbad

Dr. Som Nath Saha