



1. Name: **DR. SANTI GOPAL SAHU**

2. Date of Birth: 19.12.1974

3. Current Position and Address: SR. SCIENTIST, Combustion Science and Technology, CSIR-CIMFR, Digwadih Campus, P.O. FRI, Dhanbad-828108, Jharkhand, INDIA, E-mail: santi\_cfri@yahoo.co.in, Phone no: 0326-2388268/269 (O), 9471191156 (M).

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I	B.Sc, Chemistry (H)	1997	Vidyasagar University	Chemistry (H), Phys(P), Math (P)
II	M.Sc, Chemistry	1999	Vidyasagar University	Chemistry (Organic Special)
III	Ph.D (Engg.)	2013	Jadavpur University	Combustion of coal and biomass blends

5. Work experience

Designation	Institution/company	From	To	Nature of work
i. Sct. B	CSIR-CFRI	22.08.2001	21.08.2006	R&D
ii. Sct. C	CSIR-CIMFR	22.08.2006	21.08.2011	R&D
iii. Sr. Sct	CSIR-CIMFR	22.08.2011	Till date	R&D

6. Area of specialization: Combustion

7. Honors/Awards received: -- Nil

8. Fellowships/Scholarships: -- Nil

9. No. of Research Publications:

- Papers in journals: **11**
- In conference proceedings: **10**
- Invited/key-note addresses: --
- List of best 05 publications:
  - ✓ **S.G. Sahu**, P. Sarkar, N. Chakraborty, A.K. Adak. Thermogravimetric assessment of combustion characteristics of blends of a coal with different biomass chars, **Fuel Processing Technology** 91 (2010) 369–378.
  - ✓ **S. G. Sahu\***, N. Chakraborty, P. Sarkar, Coal–biomass co-combustion: An overview, **Renewable and Sustainable Energy Reviews** 39 (2014) 575–586.

- ✓ P. Sarkar, **S. G. Sahu\***, N. Chakraborty, A. K. Adak, Studies on potential utilization of rice husk char in blend with lignite for co-combustion application, **Journal of Thermal Analysis and Calorimetry**, 115 (2014) 1573-1581.
- ✓ P. Sarkar, **S. G. Sahu\***, A. Mukherjee, M. Kumar, A. K. Adak, N. Chakraborty, S. Biswas, Co-combustion studies for potential application of sawdust or its low temperature char as co-fuel with coal, **Applied Thermal Engineering** 63 (2014) 616-623.
- ✓ **S. G. Sahu\***, A. Mukherjee, M. Kumar, A. K. Adak, P. Sarkar, S. Biswas, H. P. Tiwari, A. Das, P. K. Banerjee, Evaluation of combustion behaviour of coal blends for use in pulverized coal injection (PCI), **Applied Thermal Engineering** 73 (2014) 1012-1019

10. Number of Books authored/edited: Nil

11. (a) No. of Patents granted/applied for: **06**

(b) Technologies developed, Licensed and/or commercialized:

12. Foreign visits: Nil

13. Details of Professional memberships: --

14 . Major contributions: (Max. 150 words)

- Combustion studies of coal and their blends.
- Contributed to basic studies and correlations were attempted to find out role of different traditional parameters of coal with combustion behaviour.
- Co-combustion studies of coal biomass blends.
- Oxy-fuel combustion studies of coal.
- Plant level GHG emission estimates for thermal power plant and integrated steel plant.
- Preparation of National GHG inventory for energy and manufacturing industries.
- Setting up modalities for normative requirement of coal for different Industries.
- Studies on combustion behaviour of non coking coals and their selected blends to assess their suitability for pulverized coal Injection (PCI) in blast furnace using TGA and DTF.
- Studies on utilisation potential of Spent Pot Lining (SPL) of smelter as a co-fuel at captive power unit.
- Development of Equivalency Chart between Useful Heat Value (UHV) and Gross Calorific Value (GCV).
- Pilot study for migration from UHV to GCV based gradation system.

15. Technologies and Products/ Services : Nil

- (i) Developed:
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed: Nil

17. Honours and awards won for technological contributions or sociological impact of R&D: Nil

Signature