

Brief Bio-data

1. Name: Rupesh Kumar Singh

2. Date of Birth: October 9, 1993

3. Current Position and Address (Include Email ID and Contact Number):

Scientist, Gasification & Catalysis Research Group, CSIR-CIMFR, Digwadih Campus,
Dhanbad, Jharkhand – 828108,

Email Id: rupeshsingh@cimfr.nic.in Mobile No.: 7205474779

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1.	B. Tech	2016	C.V. Raman College of Engineering, Bhubaneswar (Odisha)	Chemical Engineering
2.	M. Tech	2018	IIT Guwahati	Chemical Engineering

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Project Assistant, Level-II	CSIR – CIMFR, Dhanbad	November 30, 2018	December 31, 2020	Operation and maintenance of pilot plant
Research Associate	HPCL Green R&D, Bengalore	March 25, 2021	July 10, 2021	Project work
Scientist	CSIR – CIMFR, Dhanbad	July 22, 2021`	Working	R&D in the field of Gasification

6. Work Area(s)/ Specialization:

- Gasification / Co-Gasification of Coal, Biomass & their blends.
- Fluidization

7. Major contributions: (Max. 100 words):

- Contribution to the successful installation and operation of a 1.5 TPD PFBG Pilot plant for the production of Syngas from High Ash Indian Coal.
- Gasification Performance Evaluation of High-Ash Indian Coal, Agro-residue Biomass & their blends in an appropriate ratio.

8. No. of Research Publications:

- Papers in Journals: 02
- In conference proceedings: 01
- Invited lectures delivered: Nil
- Books/Chapters authored/edited: Nil
- List of best 05 publications:
 - i) **Rupesh Kumar Singh**, Nilesh D. Dhaigude, Arti Sahu, Vishal Chauhan, Gajanan Sahu, Sujan Saha, Prakash D. Chavan, February 2023. Significance of temperature and pressure on minimum fluidization velocity in a fluidized bed reactor: An experimental analysis. *Energy Sources, Part A: Recovery, Utilization, And Environmental Effects, Vol. 45, Pages 1793-1806, 10.1080/15567036.2023.2179701*
 - ii) Vishal Chauhan, Prakash D. Chavan, **Rupesh K. Singh**, Sujan Saha, Sudipta Datta, Nilesh D. Dhaigude, Gajanan Sahu & Shiva K. Saw, Januray 2023. Estimating the requirements of pressure drop during fluidization-bubbling regimes in fluidized bed with different conical distributors. *Particulate Science and Technology: An International Journal, 10.1080/02726351.2023.2168223.*

9. List of 5 Major Contract R&D Projects: Nil

10. (a) Name of Patents/Copyrights applied /granted/commercialized: Nil

(b) Technologies/Products /knowhow/Services developed: Nil

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received: M. Tech scholarship from MHRD India

12. Societal Contributions:

Trained B. Tech & M. Tech students of colleges/universities in the subject domain of Gasification, Contribution to a recycling-oriented society.