Brief Bio-data

1. Name: Gaurav Raghuvanshi

2. Date of Birth: 15-03-1994

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

Technical Officer, Gr-III (3),
Coal Characterisation Section, Resource Quality Assessment Research Group,
CSIR CIMFR Digwadih Campus, P.O. FRI, 828108, Jharkhand
Email id: raghuvanshigaurav022@gmail.com, gaurav@cimfr.nic.in,
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	B.E.	2016	Gondawana University	Mining Engineering

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Project Assistant L-II	CSIR-CIMFR	Sept-2016	Nov-2017	Sampling, Sub-Sampling & Analysis of Coal.
Technical Officer	CSIR-CIMFR	Dec-2017	continue	Operation of Instruments, assistance in R&D works

6. Work Area(s)/ Specialization: Coal Characterisation- proximate, ultimate, thermal analysis of coal; expertise in anlytical tools like GCV, TGA

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

- Sustained evaluation of GCV of coal in laboratory for coal grading
- Daily analysis and coordination of different activities for smooth execution of coal characterization works, for meeting the requirements of different industries
- Monitoring sampling and sample prepration activities at different loading and unloading ends
- Study on combustion and pyrolysis behavior of coals for predicting their end-usage
- Estimating hydrocarbon generation potential of shales

8. No. of Research Publications:

- Papers in Journals: **3**
- In conference proceedings: **NIL**
- Invited lectures delivered: **NIL**
- List of best 03 publications

i) **Raghuvanshi, G.**, Chakraborty, P., Hazra, B., Adak, A.K., Singh, P.K., Singh, A.K. and Singh, V., 2020. Pyrolysis and combustion behavior of few high-ash Indian coals. International Journal of Coal Preparation and Utilization, pp.1-21.
ii) Hazra, B., Sarkar, P., Chakraborty, P., Mahato, A., **Raghuvanshi, G.**, Singh, P.K., Singh, A.K. and Mukherjee, A., 2020. Coal combustion analysis using Rock-Eval: importance of S4-T peak. Arabian Journal of Geosciences, 13(12), pp.1-10.
iii) Hazra, B., Wood, D.A., Singh, P.K., Singh, A.K., Kumar, O.P., **Raghuvanshi, G.**, Singh, D.P., Chakraborty, P., Rao, P.S., Mahanta, K. and Sahu, G., 2020. Source rock properties and pore structural framework of the gas-prone Lower Permian shales in the Jharia basin, India. *Arabian Journal of Geosciences*, *13*(13), pp.1-18.

- Books/Chapters authored/edited: **NIL**

9. List of 5 Major Contract R&D Projects:
i) Scientific study on quality monitoring of coal (Loading point of different areas of ECL) for NTPC Farakka, Phase-V.
ii) Scientific study on quality monitoring of coal at Unloading point of NTPC Barh, Phase-IV
iii) Scientific study on quality monitoring of coal (Loading point of different areas of NCL) for NTPC Vindhyachal, M.P., Phase-XI.
iv) Scientific study on quality monitoring of coal (Loading points of different areas of ECL) for WBPDCL, Phase-V
v) Scientific study on quality monitoring of coal at Unloading point of NTPC Dadri, Phase-V

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:
- Member of CSIR cricket team
- Represented CSIR at Naydumma cricket tournament

12. Societal Contributions:
- Significant role and involvement in the monitoring of coal at different loading and unloading ends. This has helped in improving the quality of coal being supplied to thermal power plants and thereby reducing the cost of electricity
- Involved in laboratory analysis of coal, measuring of Gross Calorific Value of coals, which ultimately helps in their end-utilization for different societal needs