

Brief Bio-data

1. Name: **ABHISHEK MAHATO**

2. Date of Birth: **02-09-1990**

3. Current Position and Address (Include Email ID and Contact Number)
**Technical Assistant, Gr-III (1),
Coal Petrology Section, Resource Quality Assessment Research Group,
CSIR CIMFR Digwadih Campus, P.O. FRI, 828108, Jharkhand**
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	M.Sc.	2013	Delhi University	Geology
2	B.Sc.	2011	The University of Burdwan	Geology, Math, Physics

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Project Assistant L-II	CSIR-CIMFR	April-2014	June-2016	Assist in R&D Project work
Project Assistant L-II	CSIR-CIMFR	Dec-2016	May-2019	Assist in R&D Project work
Technical Assistant	CSIR-CIMFR	Aug-2019	continue	Operation of Instruments, assistance in R&D works

6. Work Area(s)/ Specialization:

Coal Petrology, Coal Geology, Coal sampling sub-sampling, Proximate, Ultimate analysis of coal, Analytical tools like GCV, TGA, XRD, and Optical Microscopy.

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

Now working in Petrographic analysis (Maceral, MMR, Random Reflectance) of Coal for Industrial Support. Actively involved (as team member) in third-party coal sampling mega project. Was involved in Catalyst development and experimentations for coal to liquid conversion processes. Have done extensive XRD analysis of Coal and other solid powder samples.

8. No. of Research Publications:

- Papers in Journals: **5**
- In conference proceedings: **1**
- Invited lectures delivered: **NIL**
- List of best 05 publications

Mandal, S., Maity, S., Gupta, P. K., Mahato, A., Bhanja, P., & Sahu, G. (2018). Synthesis of middle distillate through low temperature Fischer-Tropsch (LTFT) reaction over mesoporous

SDA supported cobalt catalysts using syngas equivalent to coal gasification. *Applied Catalysis A: General*, 557, 55-63.

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.

Gupta, P. K., **Mahato, A.**, Oraon, P., Gupta, G. K., & Maity, S. (2020). Coal fly ash-derived mesoporous SBA-15 as support material for production of liquid hydrocarbon through Fischer–Tropsch route. *Asia-Pacific Journal of Chemical Engineering*, e2471.

Gupta, P. K., **Mahato, A.**, Gupta, G. K., Sahu, G and Maity, S., (2021). Fischer–Tropsch synthesis over Pd promoted cobalt based mesoporous supported catalyst. *Oil & Gas Science and Technology*, <https://doi.org/10.2516/ogst/2021002>

Gupta, P. K., Mandal, S., **Mahato, A.**, & Maity, S. (2019). Role of Mn on reducibility and acidity of Cu-Zn promoted Co-Fe based bimetallic Fischer–Tropsch (F–T) catalysts. *Indian Journal of Chemical Technology (IJCT)*, 26(4), 337-341.

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

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:

12. Societal Contributions