**Dr. Mrityunjay Kumar Jha**

**PERSONAL DETAILS**

Permanent Address: S/O- Jitendra Jha, Vill- Dahaur, Post- Achuara, Dist- Patna, Bihar, 803213, India

Mobile: +91 7004813935

E-Mail: [mkjtunna@gmail.com](mailto:mkjtunna@gmail.com)

Date of Birth: 18 February 1991

Nationality: Indian

Sex: Male

Category: General

**CURRENT POSITION**



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| **Assistant Professor**  (Guest Faculty) | **Post-graduate Department of Geology, Patna University, Bihar, India,** June 2019- Present  Courses being conducted- Fuel Geology, Stratigraphy, Geo-exploration, Economic Geology, Igneous Petrology, and related practical classes. |

**EDUCATION HISTORY**



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| **PhD**  (Coal Geology and Organic Petrology) | **Rajiv Gandhi Institute of Petroleum Technology**, Jais, Amethi, Uttar Pradesh, INDIA, July 2014- August 2020  **Thesis Title**- “Petro-chemical characterization and evolution of Permian coal deposits of South Karanpura coalfield, Jharkhand, India”  **Mentor**- Dr. Alok K. Singh, Associate Professor (Geology) |
| **PhD Course work**  (2nd Semester) | **Indian Institute of Technology (IIT), Kanpur**, Uttar Pradesh, India, Jan 2015- May 2015 |
| **3 Yrs. M.Sc. Tech.**  (Applied Geology) | **Indian School of Mines (ISM), Dhanbad**, Jharkhand, India  OGPA- 7.57 (75.70%), 2014 |
| **B.Sc.**  Geology (Honours) | B. N. College, **Patna University, Patna**, Bihar, India  Marks- 75.62% (Dist. in Hons.), 2011 |
| **Intermediate**  (I. Sc., Maths) | **Jharkhand Academic Council, Ranchi**, P K Roy Memorial College, Dhanbad, Jharkhand, India, Marks- 56.80%, 2008 |
| **Matriculation** | **Jharkhand Academic Council, Ranchi**, High School, Dhanbad, Jharkhand, India, Marks- 60.60%, 2005 |

**RESEARCH AND TEACHING INTERESTS**

Coal Geology Petroleum Geology Sedimentology Organic Geochemistry Field Geology Environmental Geology Geomorphology Remote sensing and GIS

**SELECTED ACHIEVEMENT AND AWARDS**

Awarded SRF-Direct (Senior Research Fellowship) by CSIR, India, April 2018

Qualified GATE (Geology and Geophysics (GG)) in 2014, 2015 and 2019

Qualified CSIR NET (LS) (Earth Sciences) in 2015 and in 2018

**SCHOLARLY PUBLICATIONS**

Singh, A.K., **Jha, M.K.**, 2018a. Hydrocarbon potential of Permian coals of South Karanpura Coalfield, Jharkhand, India. Energy Sources, Part A Recover. Util. Environ. Eff. 40, 163–171. doi:10.1080/15567036.2017.1407841

Kumar, A., Singh, A.K., Singh, P.K., Singh, A.L., **Jha, M.K.**, 2018. Demineralization Study of High-Ash Permian Coal with Pseudomonas mendocina strain B6-1: A Case Study of the South Karanpura Coalfield, Jharkhand, India. Energy & Fuels 32, 1080–1086. doi: 10.1021/acs.energyfuels.7b02562

Singh, A.K., **Jha, M.K.**, 2018b. Interrelation Between Mechanical and Petrographic Characteristics of Coals of Argada ‘B’ Seam: Implication to Comminution and Utilization. Int. J. Coal Prep. Util. 40 (12) 824–842. doi:10.1080/19392699.2017.1419207

Singh, A.K., **Jha, M.K.**, 2018c. Petrochemical evaluation and classification of coal deposits of Barka Sayal area, South Karanpura Coalfield and suggestion for its proper utilisation. Int. J. Oil, Gas Coal Technol. 18(1-2), 39-54. doi:10.1504/IJOGCT.2018.10012687

Singh, A.K., **Jha, M.K.**, 2018d. Petrochemical characterization of Argada seam of South Karanpura Coalfield, Jharkhnad, India. J. Indian Assoc. Sedimentol. 35, 36–46.

Singh, A.K., **Jha, M.K.**, Mathews, R.P., Singh, B.D., 2018. Relationships between petro-chemical framework, biomarkers and ancient peat- forming ecosystems: A case study from Barka Sayal area, South Karanpura Coalfield, Jharkhand, India. (Under review)

**CONFERENCE PRESENTATIONS**



**Jha, M.K.,** Nath, M., 2021. Paleo-depositional environment of Sulphur-rich Jaintia Hills coals, Meghalaya and their current environmental impact. ‘XVI International Geography Online Conference organised by The Deccan Geographical society of India in association with Centre for Geographical Studies, Aryabhatta Knowledge University, Patna during September 10-12, 2021.

**Jha, M.K.,** 2020. Geochemical characterization of coals of Barka Sayal area, South Karanpura coalfield, India, the implication to paleodepositional settings and environmental impact. ‘8th Bihar Science Congress (8BSC), organised by Patna University, Bihar.

Nath, M., **Jha, M.K.,** 2020. Sulphur study of Paleogene coals from Jaintia Hills, Meghalaya, NE India: Implications for paleoenvironment, utilisation prospects, and environmental impacts. ‘Virutal National Seminar on Sedimentation, Tectonics and Metallogeny of North Eastern India’ jointly organised by North Eastern Hill University, Shillong and GSI, Bengaluru during 21 to 23 September 2020.

Singh, A.K., **Jha, M.K.**, 2019. Petrochemical study of coal seams of Argada area, South Karanpura coalfield, Jharkhand: Implication to the CBM potential. ‘International conference on Unconventional Energy Resources’ (ICUER- 2019) at RGIPT, Jais, Amethi, Uttar Pradesh, India.

Singh, A.K., **Jha, M.K.**, 2019. Coal petrography a tool to determine the paleo­mires: a case study from Permian coal seams, South Karanpura coalfield, Jharkhand. ‘9th World PetroCoal Congress­ 2019’ (9th WPCC- 2019) at Convention Centre-NDCC, Parliament Street, New Delhi, India.

Singh, A.K., **Jha, M.K.**, 2019. Organic petrology and geochemistry of Permian coal seams of Sayal area, South Karanpura coalfield, Jharkhand, India: implications to hydrocarbon source potential and depositional environment. ‘Petrotech-2019’ at India Expo. Mart. Ltd., Greater Noida, Delhi (NCR), India.

Singh, A.K., **Jha, M.K.**, 2017. Coal petrography a tool to determine the paleo­mires: A case study from Barka Sayal area, South Karanpura coalfield, Jharkhand, India. ‘2nd national geo­research scholars meet­ 2017’ (2NGRSM- 2017) at WIHG, Dehradun, Uttarakhand, India.

Singh, A.K., **Jha, M.K.**, 2017. Intercorrelation between macropetrographic and mechanical properties of coal: a case study of coals of Argada ‘B’ seam. ‘International conference on advances in petroleum, chemical & energy challenges’ (APCEC- 2017) at RGIPT, Jais, Amethi, Uttar Pradesh, India.

Singh, A.K., **Jha, M.K.**, 2017. Bituminous coal as a potential source rock for hydrocarbon generation: Study from Barka Sayal area, South Karanpura coalfield, Jharkhand, India. ‘International conference on challenges and prospects of petroleum production and processing industries’ (PEDJP- 2017) at ISM, Dhanbad, Jharkhand, India.

Singh, A.K., **Jha, M.K.**, 2015. Petrochemical characterization of Argada seam of South Karanpura coalfield, Jharkhand, India. ‘International conference on geosciences and environment and 32nd annual convention of Indian association of sedimentologists’ (ICGEN-IAS-2015) at Annamalai University, Tiruchirapalli, Tamilnadu, India.

**PROFESSIONAL ASSOCIATIONS**



Member of The Society for Organic Petrology

Member of International Association of Sedimentologists

Member of Indian association of Sedimentologists

Student Member of American Association of Petroleum Geologists (AAPG)

Student Member of the National Earth Science Teachers Association (NESTA)

**TRAINING AND EXCURSION**



Field excursion on Himalayan sequence, from 01/12/2014 to 05/12/2014 in Dehradun-Mussoorie Sector, Uttarakhand

Summer training on Gondwana geology and coal exploration, from 12/06/2013 to 22/06/2013 in Geological Survey of India, F.T.C., Kuju, Ramgarh, Jharkhand

Metamorphic terrain mapping, from 11/12/2012 to 22/12/2012 in Umra, Udaipur district, Rajasthan

Industrial training, from 22/05/2012 to 21/06/2012 in Pinoura colliery, S.E.C.L., Bilaspur, Chattisgarh

Economic geology field training, from 27/12/2011 to 06/01/2012 in Jharia, Bhelatand, CIMFR- Digwadih, Dhanbad and Parbatpur

Sedimentary terrain mapping, from 12/12/2011 to 24/12/2011 in Kuzu, Ramgarh, Ara-dumerbera, GSI camp visit

**OTHER INFORMATION**



**SOFTWARE SKILLS:** Origin, GCDkit, Microsoft Office (Word, Excel, PowerPoint), Corel Draw, Gexsys, Arc- GIS, Adobe Photoshop, Georient, Matlab.

**OTHER ACHIEVEMENTS:**

* + - Organized 1st and 2nd Research Scholars’ Day of RGIPT, Jais, Amethi.
    - Won 2nd prize for oral presentation.in 2nd Research Scholars’ Day of RGIPT, Jais, Amethi, 2018
    - Attended a workshop on “Applications of Rheology in Petrochemical Industry” at RGIPT, Jais, Amethi, 2015
    - Participated in a workshop organized by PCRA, Ministry of Petroleum and Natural Gas in ISM, Dhanbad during Srijan, 2012.
    - NCC Air Wing certificate: - ‘B’ & ‘C’, both with ‘Aye’ grade.
    - 2nd Position in Earth Sciences section of annual open science exhibition, 2010.
    - National level Certificate in National Children Science Congress (NCSC), 2003.
    - Best writer prize in ‘Akhil Bihar-Jharkhand Hindi Lekh Pratiyogita’, 2007.