

**Jadaba Nanda Das, DDG, GSI (Rtd.)**

Flat No. C-2/11, Gangotri VIP Enclave

Chandrasekharapur

Bhubaneswar – 751016, Odisha

Email: jndas7@gmail.com Mobile: +91-9432326485/+91-9480116485(WA)

Date of Birth: 07 November 1956

Academic Qualifications

Degree	Year	Subject	University	Class
B.Sc.	1976	Geology (Hons)	Khallikote College, BU	First
M.Sc.	1978	Applied Geology	University of Roorkee (IIT-Roorkee)	First

Work Experience

Sl. No.	Position Held	Name of the Institute	From–To
1	J.R.F. – CSIR#	Geology Department, Utkal University, Bhubaneswar	1978–79
2	SO/SB Class-II	AMD	1979–80
3	Geologist (Jr.) Class-I	GSI	1980–1994
4	Senior Geologist Senior Class-I	GSI	1994–2009
5	Director JAG	GSI	2009–2014
6	DDG (NFU ADG) SAG	GSI	2014–2016

CSIR project: “Graphite Deposits in Eastern Ghats Mobile Belt”; Guide: Dr. Biswanath Dash.

Brief Professional Profile

- Career geologist with extensive experience in mineral exploration, research, and scientific management acquired through decades of service in the Geological Survey of India (GSI).
- Contributed to the exploration and investigation of a wide range of mineral resources, including diamond, mica pegmatites, limestone, chromite, graphite, coloured gemstones, and gold.
- Associated with the detailed exploration of mica-pegmatite; mapping of the Ophiolite Belt of Manipur; first report of a cement-grade limestone deposit at Phungyar and occurrences of chromite in Hangkai, Manipur; graphite exploration in Bolangir district, Odisha; gold exploration in Gorumahisani, Odisha; and investigations for cement-grade limestone and industrial minerals in Bhutan.
- Served at two of GSI’s premier Centres of Excellence, the National Centre for Experimental Geosciences Research (NCEGR), Kolkata and Bengaluru.
- Acquired specialised expertise in the application of advanced petrological and geochemical techniques for mineral investigations.

- Supervised multidisciplinary research projects, managed sophisticated analytical laboratories, and developed specialised knowledge in gemstone geology and gemology. Made a significant contribution to identifying unequivocal diatreme facies of kimberlite in the Raichur Kimberlite Field. Directly supervised projects on REE in laterites of the Kolar area, characterisation of mine dumps in Kolar Gold Mine, mobility of elements in the supergene environment over ultramafics, etc., in Karnataka.
 - Responsible for the planning, review, supervision, and monitoring of research and mineral investigation programmes across the country. Guided the entire project cycle, from formulation of annual field programmes to report finalisation, as well as the overall management and coordination of GSI's NCEGR laboratories at the national level as Deputy Director General and Head, Mission-IVC (Fundamental Geosciences Research), GSI.
 - Involved in advancing geosciences and promoting the sustainable development of mineral resources through scientific innovation, modern analytical approaches, and effective knowledge dissemination.
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Professional Recognitions

- Member, MTD-10 Committee, BIS – Finalisation of the standards on *Grading of Polished Diamonds: Part 1 – Classifications* (IS 15766: Part 1:2007) and *Grading of Polished Diamonds: Part 2 – Test Methods* (IS 15766: Part 2:2007).
- Member, Organizing Committee of the 10th International Kimberlite Conference, Bangalore, 2012.
- Co-Convener, National Working Group of IGCP-SIDA Project 599 (*The Changing Early Earth*), 2013–2015.
- Participated and delivered a talk on “Prospect of Indian Gemstones in 21st Century” in a session devoted to Gemology during the Convention of the Geological Society of America (GSA-2014), held in Vancouver, Canada, in October 2014.
- Delivered the Prof. Subba Rao Memorial Lecture at the 6th National Symposium on “Gems and Gemstones”, as part of the 20th National Convention of Economic Geologists (2015–16), held at Gwalior in November 2015.
- Participated and delivered a review talk on “Advanced Laboratory Facilities Available in GSI to Attain Excellence in Mineral Investigations” at the All India 55th CGPB Meeting, held at Pushpa Bhawan, New Delhi, in February 2016.
- Participated and deliberated before the Parliamentary Standing Committee on Coal & Steel on the subject “Science and Technology/Research and Development in Mining Sector”, on behalf of GSI, at Parliament House, New Delhi, in 2016.
- Member, Review Committee (RC) for the major project on “Establishment of Electron Probe Micro-Analyzer (EPMA) as a National Facility under IRHPA Programme, SERC, DST, Government of India” (2016–17).
- Member, Review Committee for shortlisting candidates seeking financial support for attending the 35th IGC, Cape Town, South Africa, and the 36th International Congress of Geological Sciences, India.

- Member, Consultant Evaluation Committee (CEC) for hiring PCO for IGC-35 and the 36th International Congress of Geological Sciences, India.
 - Member, CGPB Sub-Committee-X (Fundamental and Multidisciplinary Geosciences) since 2010; instrumental in the creation of NCEGR, GSI, Bengaluru, as well as the new Laboratory Complex, RSAS, GSI, Bengaluru.
 - Expert (Testing and Analytical Labs) at Level-I on a part-time contract basis in Mineral Exploration Corporation Ltd. (MECL), a Government of India Enterprise, from September 2017 to February 2018.
 - Symposia Coordinator of Theme 43.6, “Recipes for Diamonds: Evidences from Fluids and Inclusions”, under Main Theme-43, “Kimberlites, Xenoliths and Diamonds: Snapshots of the Earth’s Mantle”, at the 36th International Geological Congress, 2020.
 - Fellow and **Executive Council Member (2025–2028)** Geological Society of India, Bengaluru:
 - Fellow, **General Secretary (2025–2027) and Member, Editorial Board**, Society of Geoscientists and Allied Technologists, Bhubaneswar.
 - Fellow and **President (2024–2026)** Institution of Geoscientists, Odisha, Bhubaneswar.
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Publications

List of papers published in year-wise descending order.

1. Das, J. N. (2025). Prospects and Challenges in Geology and Gemmology of Gemstones in India. *Journal of Geological Society of India*, 101(9), 1431–1434. <https://doi.org/10.17491/jgsi/2025/174257>
2. J. N. Das (2013). “Emerging Trend in Geology of Gemstone – Indian Scenario”. *Abstract Volume, International Conference on Future Challenges in Earth Sciences for Energy & Mineral Resources (ESEMR 2013)*, pp. 173–176.
3. J. N. Das (2013). “Exploration Strategy for Gemstones in Southern Granulite Terrain, India”. *Abstract Volume of National Workshop on Recent Scientific Advances in Southern Granulite Terrain*, p. 127.
4. J. N. Das (2007). Book Review – *Geology and Mineral Resources of Orissa*. *Journal of Geological Society of India*, 70, p. 370.
5. J. N. Das, M. M. Korakoppa, Fareeduddin, S. Shivanna, J. K. Srivastava and N. L. Gera (2013). “Tuffisitic Kimberlite from Eastern Dharwar Craton, Undraddoddi Area, Raichur District, Karnataka, India”. *Proceedings of the 10th International Kimberlite Conference*, Bangalore, Vol. 2, Special Issue, Geological Society of India, pp. 109–128.
6. S. Dutta Gupta, B. Adhikary, P. R. Mukhopadhyay and R. R. Rudra (2002). “Gem Testing News”. *CHQ, GSI*, 33, pp. 8–12.
7. J. N. Das (2009). “Orientation Course on Gemology”. *News & Notes, Journal of Geological Society of India*, Bangalore, 74, pp. 142–143.
8. J. N. Das, R. R. Rudra, Bharati Adhikary and P. R. Mukhopadhyay (2007). “Authentication of Gems – Challenges and Perils in the Indian Perspective”. *Indian Minerals*, 60, pp. 137–152.

9. S. Dutta Gupta, J. N. Das, B. Adhikary, P. R. Mukhopadhyay and R. R. Rudra (2002). "Gem Testing – Role of the Geological Survey of India in Enhancing Gems and Jewellery Trade". *Abstract Volume, International Conference on Diamond and Gemstones, SAAEG*, pp. 172–173.
10. J. N. Das & E. S. N. Rao (1999). "Investigation for Dimensional Stone in Bhumtang and Trashigang Dzongkhags, Bhutan". *GSI Records*, 132, pp. 77–79.
11. J. N. Das & T. K. Pyne (1999). "Investigation for Cement Grade Limestone in Ledung Area (Tshebar Extension), Pemagatshel Dzongkhag, Bhutan". *GSI Records*, 132, pp. 71–71.
12. J. N. Das & B. S. S. Reddy (1999). "Investigation for Minor/Industrial Minerals in Parts of Mongar and Lhuntse Dzongkhags, Bhutan". *GSI Records*, 133, pp. 99–100.
13. J. N. Das, A. K. Ray and S. Sinha (1999). "Investigation for Cement Grade Limestone in Ledung Area (Tshebar Extension), Pemagatshel Dzongkhag, Bhutan". *GSI Records*, 133, pp. 80–82.
14. S. Ghosh, J. N. Das, A. K. Rao, T. Ray Barman, V. K. Kollapuri and A. Sarkar (1994). "Fission Track and K-Ar Dating of Pegmatite and Associated Rocks of Nellore Schist Belt, Andhra Pradesh: Evidence of Middle to Late Proterozoic Events". *Indian Minerals*, 48, pp. 95–102.
15. G. C. Das, A. M. Mahanti, J. N. Das and S. N. Patel (1993). "Search for Gold and Heavy Metals in Gorumahisani Schist Belt, Mayurbhanj District, Orissa". *Records, Geological Survey of India*, 126, pp. 48–48.
16. S. C. Kanungo, J. N. Das and M. K. Rao (1991). "Assessment of Graphite Resources in Titlagarh Belt Covering Parts of Bolangir and Kalahandi Districts, Orissa". *Records of Geological Survey of India*, 124, pp. 49–49.
17. J. N. Das & K. S. Gupta (1990). "Preliminary Appraisal of Cement Grade Limestone in Phungyar Area, Ukhrul District, Manipur". *Records of Geological Survey of India*, 123, pp. 68–69.
18. J. N. Das & K. S. Gupta (1990). "Preliminary Investigation of Chromite Occurrences in Hangkau Area, Ukhrul District, Manipur". *Records of Geological Survey of India*, 123, pp. 66–67.
19. J. N. Das & S. R. K. Setty (1989). "Geology of the Area around Phungyar-Sarbhung, Ukhrul District, Manipur". *Records of Geological Survey of India*, 122, pp. 15–25.