



खंड 10, अंक 2  
Vol. 10, No. 2

फ़रवरी 2026  
February 2026

# तकनीकी पत्रिका

## CURRENT CONTENTS

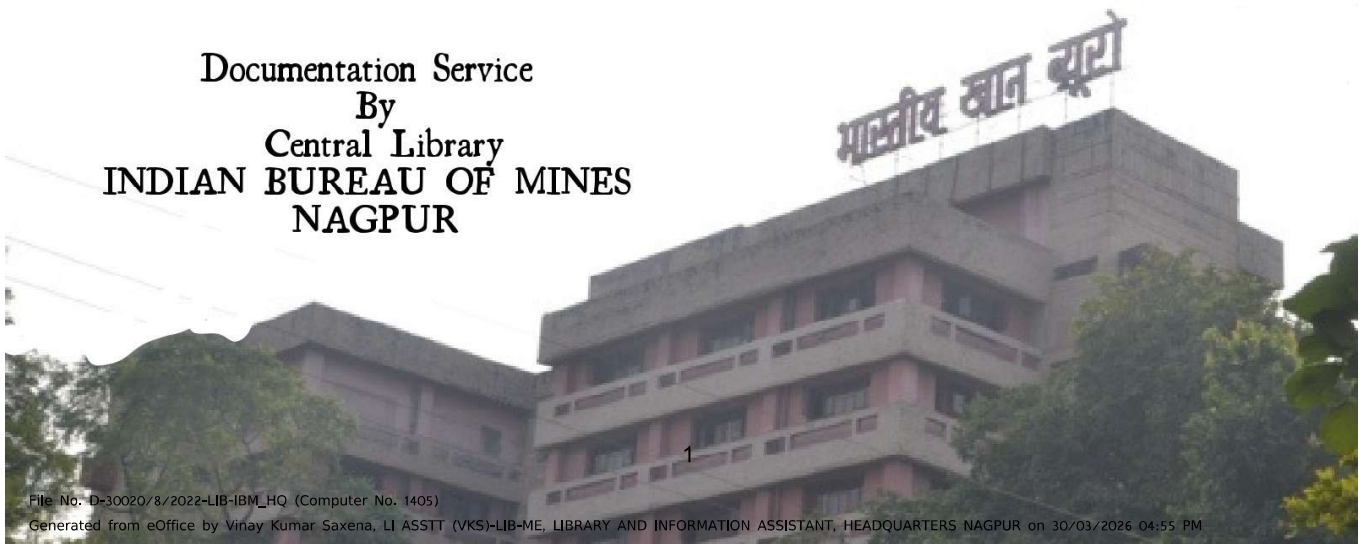
### ON



**G**EOLGY & MINERALOGY  
**E**ECONOMICS OF MINERALS  
**M**INING & ENVIRONMENT

Documentation Service  
 By  
 Central Library  
 INDIAN BUREAU OF MINES  
 NAGPUR

मास्तीय खान ब्यूरो





## तकनीकी पत्रिका विषय-सूची

### **CURRENT CONTENT**

*(Technical Journals)*

*(A Monthly Current Awareness Service from Technical Journals)*

**Vol. 10, No. 2, February, 2026**

The Central Library, IBM, Nagpur is subscribing the technical journals and also receiving them on complimentary basis on various subjects like Geology, Mining, Mineral Economics etc. These Technical Journals make up an important collection of latest scientific information. The library is rendering Reference Service to its users from these technical Journals (Article Indexing is one of them). Central Library, IBM provides Current Content Service from these technical journals in the name of "GEM" since 2006 on half yearly basis in print form. To expand this service to the IBM Offices all over India i.e. H.Q., Zonal & Regional Offices and to take a call of time, the Controller General, IBM desired to make this service online on monthly basis. The library staff made efforts to make it successful. This is the 2<sup>nd</sup> issue of Volume-10 for this service named "तकनीकी पत्रिका विषय - सूची" (Current Content- A Monthly Current Awareness Service from Technical Journals) Vol. 10 No. 2, February, 2026.

It will be highly appreciated if the valuable feedback is reciprocated. If some article as per content list is found to be of use by the reader the same may be requested and the library will send the scanned copy of the article to the interested reader.

Digitally signed by  
 RANJANA SUNIL WAKODE  
 Date: 06-03-2026  
 15:20:08

**Mrs R S Wakode**  
**Assistant Library & Information Officer**  
**library@ibm.gov.in**  
**0712-2562847**

# I N D E X

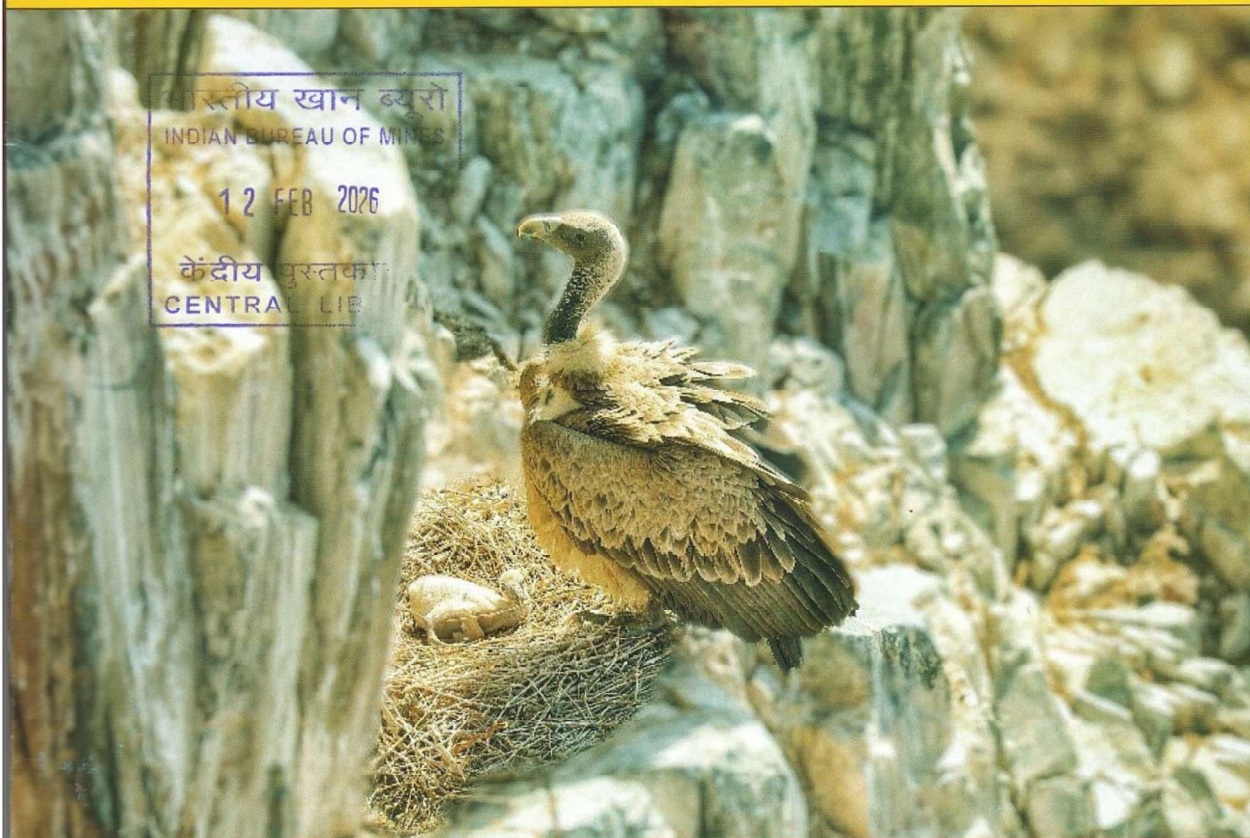
| <u>S.No</u> | <u>Title</u>                               | <u>Page No</u> |
|-------------|--|----------------|
| 1)          | Current Science                            | 03-08          |
| 2)          | Journal of The Geological Society of India | 09-11          |

Current Science, Vol.130 No.1, January, 2026

# CURRENT SCIENCE

Volume 130 Number 1

10 January 2026



The struggle for survival : long-billed vultures in India

Can we rethink agroforestry beyond degraded lands?

Unveiling the hidden costs of exotic fish in Godavari

Current Science Association



Indian Academy of Sciences

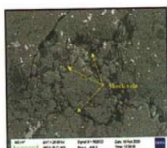
## 6 Highlights of the Issue

**GUEST EDITORIAL**

- 7 **Ageing India: the imperative for a comprehensive geriatric care framework**  
U. S. Vishal Rao

**SCIENTIFIC CORRESPONDENCE**

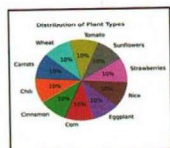
- 9 **Exotic fish and aquatic ecosystem disservices in River Godavari**  
Rajeev K. Singh, Ganesan Kantharajan, Diamond Rajakumar Tenali, Satyaveer, Rejani Chandran, Achal Singh, L. K. Tyagi, Jai C. Rana and Kajal Chakraborty
- 12 **Occurrence and mineral chemistry of chromite and xieite in Kopergaon meteorite**  
Monotrissha Dey and Susmita Mondal

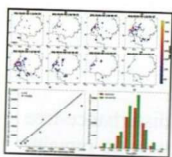
**GENERAL ARTICLE**

- 15 **Rethinking agroforestry beyond degraded lands: a perspective**  
S. B. Chavan, A. Keerthika and A. R. Uthappa

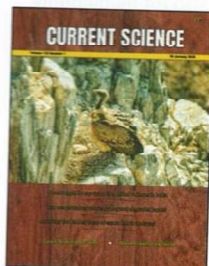
**RESEARCH ARTICLES**

- 27 **Feeding preference and potential of *Aneleis cardoni* (Weise) (Coleoptera: Coccinellidae) across life stages under mixed diet conditions**  
Gyanendra Kumar, Rojalin Pattanayak, Uzma Afaq and Bipin Chandra Pathak
- 34 **A snow depth model for Arctic sea ice from ICESat-2 and CryoSat-2 freeboards**  
Xin Liu, Ziqian Huang, Gaoying Yin, Hui Li, Jinggui Gao and Jinyun Guo
- 46 **Soil quality index under two prominent agroforestry species of the western Himalayan region**  
V. R. Megha, Rajesh Kaushal, Sadikul Islam, R. B. Meena, Trisha Roy, J. M. S. Tomar, Harsh Mehta, Raj Kumar, O. P. Chaturvedi, Anupam Barh, Uday Mandal, P. Vishwal Madhav, Vibha Singhal and M. Madhu
- 55 **A study on the impact of fuzzification in classification and prediction of plants using machine learning models**  
T. Swathi and S. Sudha
- 68 **Population status and breeding ecology of critically endangered Long-billed Vulture *Gyps indicus* in Barmer and Jaisalmer, India**  
Ashok Kumar Panchal, Ram Prakash Saran and Ramesh Kumar



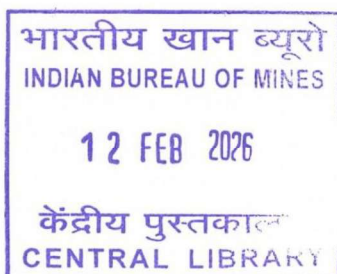
**RESEARCH COMMUNICATION****83 Estimation of fire radiative power for crop residue burning regions in northern India using India's geostationary satellite INSAT-3DS**

Parthkumar N. Parmar, Mehul R. Pandya, Jalpesh A. Dave, Hasmukh K. Varchand, Dhruv D. Desai, Nimisha Singh, Bipasha Paul Shukla, Koyel Sur, Himanshu J. Trivedi



◀ COVER. Parent Long-billed Vulture with hatchling in the nest. See page 68.

Indexed in CURRENT CONTENTS/GEOBASE/CHEMICAL ABSTRACTS/IndMED/SCOPUS/  
WEB OF SCIENCE/ISTOR



Current Science, Vol.130 No.2, January, 2026

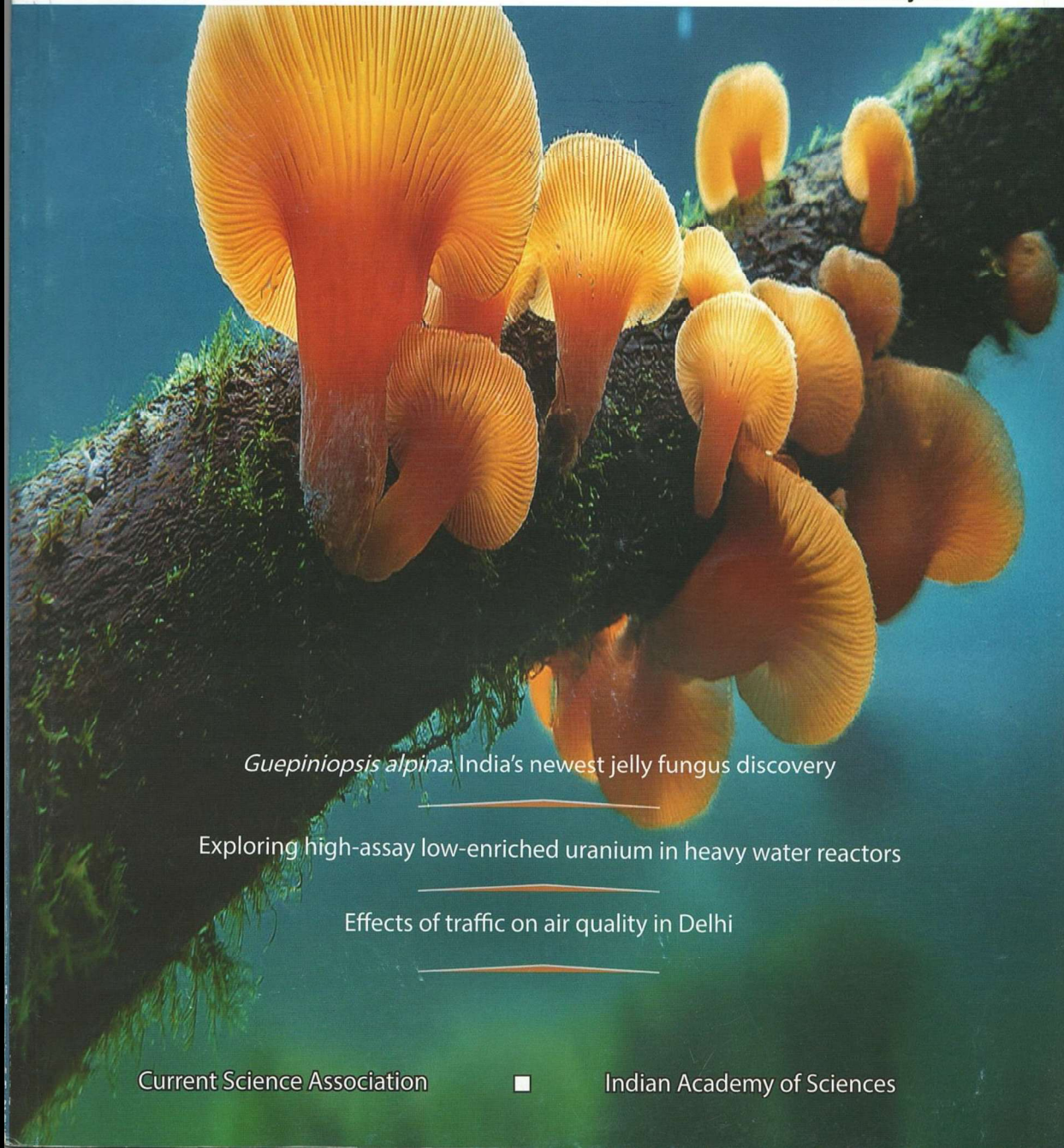
# CURRENT SCIENCE

12 FEB 2026

केन्द्रीय पुस्तकालय  
CENTRAL LIBRARY

Volume 130 Number 2

25 January 2026



*Guepiniopsis alpina*: India's newest jelly fungus discovery

Exploring high-assay low-enriched uranium in heavy water reactors

Effects of traffic on air quality in Delhi

Current Science Association



Indian Academy of Sciences

Founded 1932

ISSN:0011-3891

# CURRENT SCIENCE

Volume 130 Number 2

25 January 2026

भारतीय  
INDIAN BUREAU OF METEOROLOGY

12 FEB 2026

केंद्रीय प  
CENTRAL

106 **Highlights of the Issue****EDITORIAL**

- 107 **Forests and climate: from production to conservation to carbon sinks**  
Raj Kishore Singh

**NEWS**

- 109 **Mechanical underwater soft adhesion system: a breakthrough in underwater adhesion for soft surfaces**  
V. Shree Yazhini

**MEETING REPORT**

- 111 **Marine geological studies in the Indian EEZ – opportunities and prospects\***  
P. John Kurian, Tyson Sebastian, Maria C. Fernandes, R. Bhushan and C. M. Bijesh

**COMMENTARY**

- 113 **Global Health Survey Index: where does India stand?**  
Anshita Bhatnagar and Monika Jaggi

**SCIENTIFIC CORRESPONDENCE**

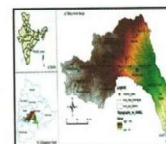
- 117 ***Guepiniopsis alpina*: a rare jelly fungus makes its Indian debut**  
Prabha Pant, N. S. K. Harsh, Deepak Agri, Kritika Joshi and Kapil Khulbe

**GENERAL ARTICLES**

- 119 **Soil security and policy**  
T. Bhattacharyya
- 126 **On the use of high-assay low-enriched uranium–thorium fuel cycles in pressurised heavy water reactors**  
K. P. Singh, Amit Thakur and Anurag Gupta

**RESEARCH ARTICLES**

- 136 **Fuel losses and assessment of air quality at selected traffic intersections in Delhi**  
Niraj Sharma, Mukti Advani and Rajni Dhyani
- 148 **Report of six new thrips species on vegetable and pulse crops in central India**  
Dhimar Akanand, Dhanender Kumar Rana, Palaiyur Nanjappan Sivalingam, Anil Dixit, Kaomud Tyagi and Jandrajupalli Sridhar
- 152 **Estimation of aquifer vulnerability to groundwater pollution using an entropy-based model: a case study from the Musi River Sub-Basins, Southern India**  
S. Chandrapuri, N. C. Mondal and M. V. S. S. Giridhar



104

CURRENT SCIENCE, VOL. 130, NO. 2, 25 JANUARY 2026

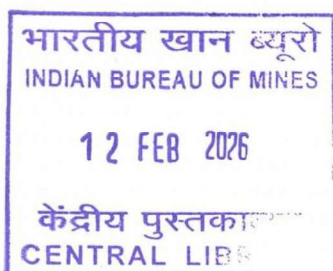
## Current Science, Vol.130 No.2, January, 2026

- 162 **Efficient gated proximal optimisation with covariance swarm algorithm to enhance the performance of thermoacoustic refrigeration**  
Sajid Hameed Siddiqui and Akash M. Langde
- 173 **Evaluating neuroprotective effects in a *Drosophila* model of Parkinson's disease**  
Sonia Narwal, Shreyas Iyer, Arushi Rai, Kirti Tare and Meghana Tare
- 
- PERSONAL NEWS**
- 182 **Chavali Kameswara Rao (1937–2025)**  
M. Sanjappa and S. Shantharam
- 



◀ COVER. *Guepiniopsis alpina* in natural habitat. See page 117.

Indexed in CURRENT CONTENTS/GEODATABASE/CHEMICAL ABSTRACTS/IndMED/SCOPUS/  
WEB OF SCIENCE/JSTOR



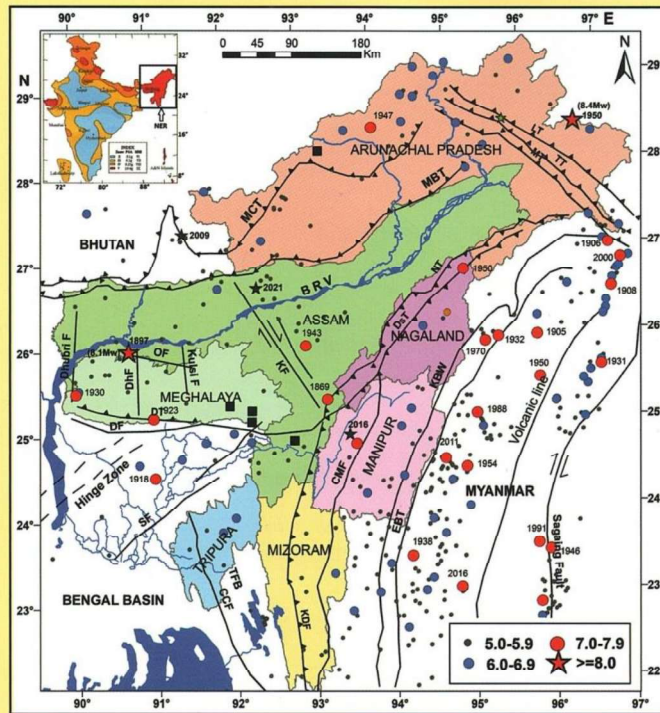
13 FEB 2026  
केंद्रीय पुस्तकालय  
CENTRAL LIBRARY

# Journal of The Geological Society of India

Vol.102

JANUARY 2026

No. 1



Journal of The Geological Society of India, Vol.102 No.1, January, 2026

INDIAN BUREAU OF MINES

13 FEB 2026

केंद्रीय पुस्तकालय  
CENTRAL LIBRARY

**JOURNAL  
of  
THE GEOLOGICAL SOCIETY OF INDIA**

(Abstracted/Indexed in AGI's Bibliography and Index of Geology, Chemical Abstracts, Current Contents, GEOBASE, GEORef, Mineralogical Abstracts, GeoArchive, Thomson ISI database (SCIE, CC/PC & ES))

Vol. 102

JANUARY 2026

No. 1

**CONTENTS**

**EDITORIAL**

- Geodiversity and National Geological Monument Sites in India: Special Reference to Guryul Ravine, Kashmir, India**  
G. M. BHAT ..... 5

**REVIEW ARTICLE**

- A Review of the Geotechnical Characterisation of Indian Coal Ash**  
PREETYNANDA NANDA and SATYAJEET NANDA ..... 11

**RESEARCH ARTICLES**

- Leveraging Python for Comparative Hypsometric Analysis Using Different DEMs: Neotectonic Insights from the Man River Basin, Western Madhya Pradesh, India**  
ANKIT KAILASHI RATHORE, SHAFIA KHAN, PRAMOD K. VERMA and SHAILESH K. CHAURE ..... 27
- Structural Framework and Granite-Induced Contact Metamorphism in the Lesser Himalayan Sequence of Doda District, Jammu and Kashmir**  
NADEEM AHMAD BHAT and VINOD KUMAR ..... 37
- Provenance of Clay Minerals in Core Sediments of Krishna River Delta, East Coast, India**  
K. N. MURALI KRISHNA, K. S. N. REDDY, Ch. RAVISEKHAR and G. SURIBABU ..... 44
- Hydrogeochemistry and Source Appraisal of Groundwater Quality in a Semi-Arid Region of Kadapa, India: Insights into Pollution, Health Risks**  
V. SUNITHA, P. DEEPTHI, E. BALAJI and B. MURALIDHARA REDDY ..... 55
- Site Characterisation in the Proximity of Active Indo-Burma Subduction Zone Using Geological and Geophysical Methods: A Case Study from Champhai Town Area of Mizoram State in Northeast India**  
SANDIPAN DAS, MOHAN BABU M., R. NYNA RENU, SARALIN KHONGWAR, JOE JOSEPH and JNANA RANJAN KAYAL ..... 65
- Preliminary Study on Microplastic Abundance and Morphological Diversity in Beach Sediments of Goa and their Role as Carriers of Metals**  
CHELSEA JULID GEMMA FERNANDES and MAHESHWAR RAMAKANT NASNODKAR ..... 72

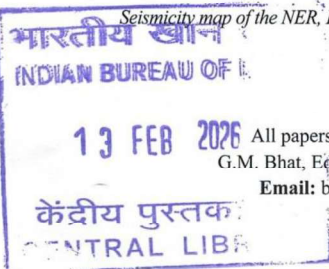
1

## Journal of The Geological Society of India, Vol.102 No.1, January, 2026

|   |     |
|---|-----|
| <b>Soft-Sediment Deformation Structures in Gujarat Alluvium: Evidence for Palaeo-Seismicity, around Patan, Cambay Basin, Western India</b><br>SHRADHA SHUKLA and SOUMITRA DASGUPTA .....  | 80  |
| <b>Thermal Maturity and Structural Characterization of Indian Coals: Insights from Petrographic, Pyrolytic and Spectroscopic Methods</b><br>RUNCIE P. MATHEWS, MANSI SRIVASTAVA, SATENDRA KUMAR GUPTA, MONALISA MALLICK, VIKRAM PARTAP SINGH, PRASANNA K., RIMPY CHETIA, S. SURESH KUMAR PILLAI and NEHA AGGARWAL ..... | 89  |
| <b>Sediment Grain Size Controlling the Distribution of Foraminiferal Assemblage: A Case Study from Chandipur Coast, India</b><br>JUMEE DOWARI, URBASHI SARKAR and M. FARUQUE HUSSAIN .....  | 100 |
| <b>Revised Lithostratigraphy and Age of the Gondwana Sequence in the Eastern Nepal Himalaya</b><br>DRONA ADHIKARI, KRISHNA PRASAD NIRLA, PRASHANTA RAI, NAGESH RIJAL, DEEPA AGNIHOTRI and LALU PRASAD PAUDEL .....  | 111 |
| <b>Reservoir Quality with Integrated Well Logs, Petrography, and Petrophysical Parameters of the Çağlayan Formation Sandstones around Ereğli-Amasra in the Western Black Sea Region, Turkey</b><br>AYLIN GEÇER and AYNUR GEÇER BÜYÜKUTKU .....  | 122 |
| <b>SHORT RESEARCH ARTICLES</b>  |     |
| <b>Rock Properties of a Petroleum Reservoir: Get along with Darcy's Law?</b><br>SURESH KUMAR GOVINDARAJAN .....   | 130 |
| <b>Temporal Conundrum: The Age of Trace Fossils from Osian, Western Rajasthan, India</b><br>S. AHMAD and S.K. PANDEY .....  | 135 |
| <b>Re-Evaluating the Different Cratonic Segments of the Dharwar Craton (South Indian Shield): New Constraints</b><br>SUKANTA GOSWAMI .....  | 141 |
| <b>NEWS AND NOTES</b>   |     |
| <b>18<sup>th</sup> International Earth Science Olympiad: A Report</b><br>HEMA ACHYUTHAN and DEVESH WALIA .....  | 144 |
| <b>ANNOUNCEMENT</b>   |     |
| <b>Nominations for the Awards 2026 .....</b>  | 148 |

**Cover**

*Seismicity map of the NER, India, showing major tectonic features (modified after Kayal et al., 2012). For details see pages 65-71.*

**ADDRESS OF EDITOR**

All papers intended for publication and also related correspondence should be addressed to:  
G.M. Bhat, Editor-in-Chief, Department of Geology, University of Jammu, Jammu - 180 006, India.  
Email: bhatgm09@gmail.com; Editor\_JGSI@geosocindia.org; Mobile: 91-9419200120;  
Website: <https://www.geosocindia.org>