

Editorial Board

1. Er. A. K. Singh, CMD, NHPC Ltd., Faridabad, India
2. Mr. S.L. Kapil, ED, NHPC., Faridabad, India
3. Dr. Gopal Dhawan, Ex-CMD, MECL, Nagpur, India
4. Dr. Ranjit Rath, CMD, MECL, Nagpur, India
5. Mr. P.L. Narula, GSI(Retd.), New Delhi, India
6. Dr. Prabhass Pandey, GSI(Retd.), Lucknow, India
7. Er. R.N. Misra, Ex-CMD, SJVNL, Shimla, India
8. Er. A.K. Mishra, MD, MHPA, Bhutan
9. Dr. R. Chitra, Director, CSMRS, New Delhi, India
10. Dr. T. Fechner, MD, Geotomographie GmbH, Germany
11. Mr. Pradeep Singh, Director (Tech), MoM, New Delhi
12. Dr. Y.P. Sharda, SNC Lavlin, New Delhi, India
13. Mr. Y. Deva, Consultant (EG), Noida
14. Mr. M. Raju, Ex-DG, GSI, Hyderabad, India
15. Dr. Rajinder Bhasin, Expert Advisor, NGI, Norway
16. Mr. U.V. Hedge, Consultant (EG), Bengaluru, India
17. Dr. V.K. Sharma, Advisor, GoB, Patna, India
18. Dr. Rajbal Singh, Expert, WAPCOS, New Delhi, India
19. Dr. Manoj Verma, RocScience, Gurugram, India
20. Er. Balraj Joshi, Ex CMD, NHPC, Faridabad
21. Prof. K.S. Rao, IIT-Delhi, New Delhi, India
22. Mr. M.J. Ahmed, ACES, Dubai
23. Dr. Bineshian Hoss, Amberg Engg. AG, Australia
24. Dr. Saibal Ghosh, Director, GSI, Kolkata, India
25. Mr. Imran Sayeed, Consultant, Faridabad, India
26. Dr. R. K. Goel, CIMFR-CBRI, Roorkee, India
27. Mr. N.K. Mathur, Ex GM, NHPC,, Faridabad, India
28. Prof. R. K. Dubey, ISM-IIT, Dhanbad, India
29. Dr. D.S. Subramayam, NIRM, Bengaluru, India
30. Rahul Khanna, DGM, NHPC, Faridabad, India
(Editor/ Convener)

Address for Correspondence:

Rahul Khanna Editor, ISEG

C/o DGM (Geo), Parbati HE Project, Stage-II,
NHPC Ltd., Nagwain, District Mandi,
Himachal Pradesh-175121
E-mail: isegpapers@gmail.com; editor@joegindia.com

The journal is available in electronic form at website:
www.joegindia.com

Copies of journal (till Vol. XLI) can be obtained by
book post if available. An amount of Rs 350/- has to
be deposited through on-line bank transfer. Bank
details are given below:

Name: UCO Bank; Branch: GSI Branch,
Aliganj, Lucknow;

Name of account: "INDIAN.SOC.OF.ENG";

Account No.:90330200000045;

IFSC Code: UCBA0002024

In case it is required by speed post please add Rs
90/-. International orders will cost \$150 per copy
including postage.

**Journal of Engineering Geology, Vol. XLVI,
No. 1 for June 2021 published by ISEG
includes peer reviewed papers submitted by
authors.**

(C) Indian Society of Engineering Geology 2021

Indian Society of Engineering Geology

(IAEG India National Group)

(Established 1965)

S. L. Kapil, Secretary,

Indian Society of Engineering Geology,
C/o Executive Director & HOD,
Engineering Geology & Geotechnical Division.
NHPC Office Complex, Sector-33, Faridabad, Haryana-121003.
Email: india.seg@gmail.com; Mobile: +91-9911103790

ISEG Council

ISEG, the Indian National Group of International Association
of Engineering Geology and Environment (IAEG) is managed
by an elected Governing Council. ISEG Council for the session
2020-21 is given below:

President

A. K. Singh CMD, NHPC, Faridabad

Vice-Presidents

A. K. Mishra MD, MHPA, Bhutan
Pradeep Singh Director (Tech), MoM, New Delhi
Ramesh Chauhan AGM/Chief Geologist, SJVNL

Secretary

S. L. Kapil ED, NHPC, Faridabad

Joint Secretaries

Nihar R. Bhattacharjee Director, GSI, Kolkata
Vachaspati Pandey DGM (Geo), NHPC, Fbd.

Treasurer

Dr. Mridul Srivastava Director, GSI, Lucknow

Editor

Rahul Khanna DGM (Geo), NHPC, Kullu

Joint Editor

Vipul Nagar Sr. Manager (Geophy), NHPC Ltd.

Past President

Dr. K.S. Rao Professor, IIT, Delhi

Past Secretary

Dr. Saibal Ghosh Director, GSI, Kolkata

Council Members

M. Raju GSI, Hyderabad
Arindom Chakraborty CVPPL, Jammu
Akhouri Biswapriya GSI, Patna
Sunil J. Ganvir NHPC Ltd., Faridabad
Dr. Neelima Satyam IIT, Indore
Seabrat Das GSI, Jammu
Dr. Asit Kr. Swain GSI, Bhubaneswar, Odisha
Amitabh Sharan CEO, EGE Consultants, Fbd.
Satish K. Goel MD, Spageo Infra, New Delhi
Dharmendra Kumar GSI, New Delhi

Front Cover Photograph: Top Left: Indices and impact
factors as input for calculation of I-System; Top Right: (I)-
Class and (I)-GC's output as I-System's classification and
characterization; Bottom: I-System's rating chart for indices
and impact factors.