

Workshop on
**Reinforced Soil Walls :
Distresses and Remedies**

5th - 6th April 2024, New Delhi



Organised by



Indian Chapter of International
Geosynthetics Society

in association with



Central Board of
Irrigation & Power

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ABOUT THE WORKSHOP

The reinforced soil walls have been extensively used in infrastructure worldwide and in India, they have been adopted by the Ministry of Road Transport Highways, Railways and many others to a considerable extent. They became the most common wall type preferred, especially for transportation projects, because of their rapid construction, cost-effectiveness, and aesthetics. The application of this technique also has seen a few number of failures, such as collapse of certain sections of retaining systems, connection failures, excessive deformation etc. In this workshop, an overview of the principles of reinforced soils, failure mechanisms, causes of failure in terms of collapse, deformation, connection failure, role of fine grained soils, drainage provisions etc is presented. The workshop highlights the need for documentation of performance of these structures and categorization of distresses to reduce the number of failures and better understand the response of these structures.

The Workshop is being organised by the Indian Chapter of International Geosynthetics Society in association with the Central Board of Irrigation and Power.

ABOUT THE INTERNATIONAL GEOSYNTHETICS SOCIETY (INDIA)

In the year 1985, Central Board of Irrigation and Power, (CBIP) as part of its technology forecasting activities identified geosynthetics as an important area relevant to India's need for infrastructure development, including roads. After approval of IGS Council for the formation of Indian Chapter in October 1988, the Indian Chapter of IGS was got registered under Societies Registration Act 1860 of India in June 1992 as the Committee for International Geotextile Society (India), with its Secretariat at Central Board of Irrigation and Power. The Chapter has since been renamed as International Geosynthetics Society (India), in view of the parent body having changed its name from International Geotextiles Society to International Geosynthetics Society.

The main objectives and purposes of the Society are:

- To collect and disseminate knowledge on all matters relevant to geotextiles, geomembranes and related products, e.g. by promoting seminars, conferences etc.;
- To promote advancement of the state-of-the-art of geotextiles, geomembranes and related products and of their applications, e.g. by encouraging, through its members, the harmonization of test methods, equipment and criteria; and
- To improve communication and understanding regarding such products, e.g. between designers, manufacturers and users and especially between the textile and civil engineering communities.

TOPICS

The following will be the topics for discussion during the Workshop:

- Geosynthetics-Reinforcing Technology
- Design of Geosynthetics Reinforced Soil Retaining Walls as per BS, FHWA, NMCA
- Geotechnical Investigation for Reinforced Soil Structures
- Design of reinforced slopes
- Design of embankments on soft soils
- Construction of Geosynthetics Reinforced Soil Structures
- Current Issues of Reinforced Soil Structures in India
- Case Studies

OFFICIAL LANGUAGE

English will be the official language of the Workshop.

DATES AND VENUE

The Workshop will be held during 5th and 6th April 2024 in CBIP Hall, New Delhi

CALL FOR CASE STUDIES

Case studies on the topics proposed and allied topics are invited. Intending authors may send the full text of their case studies, as per the guidelines given below. The last date for the receipt of full texts of the case studies is 15th March 2024.

The case studies will be reviewed by the Technical Committee to assess its suitability for presentations. The case studies accepted for presentation will be notified by 31 March 2024. A condition of acceptance of the case studies will be that the author, or one of the authors in case of multiple authors, will attend the Workshop and make the presentation.

ORGANISING COMMITTEE

Dr. G.L. Sivakumar Babu, *President*, IGS Chapter, & Professor, Indian Institute of Science Bangalore

Dr. K. Balan, *Vice Principal*, Rajadhani Institute of Engineering and Technology, Thiruvananthapuram

Ms. Dola Roychowdhury, *Vice President*, Founder Director, Geube Consulting Engineers LLP

Shri Vivek Kapadia, *Immediate Past President*, Former Secretary to Government of Gujarat and Former Director, SSNNL

MEMBERS

Dr. A. Murali Krishna, Professor, Indian Institute of Technology Tirupati

Dr. Anil Dixit, MD, Landmark Material Testing and Research Lab.

Mr. Anant Kanoi, MD/ **Mr. Saurabh Vyas**, Head - Technical services Techfab (India) Industries Ltd.

Mr. Ashish Gharpure, MD & Founder, Genstru Consultants Pvt Ltd

Mr. Atanu Adhikari, Vice President, Reinforced Earth India Pvt. Ltd.

Prof. B Umashankar, Professor, Indian Institute of Technology Hyderabad

Mr. C.R. Devaraj, Managing Director, Charankattu Coir Mfg. Co. (P) Ltd.

Mr. Himanshu Kotak, M.Tech – Geotechnical (IIT Kanpur), C-Phi Consult Pvt. Ltd

Dr. J.T. Shahu, Professor, Indian Institute of Technology Delhi

Dr. Madhavi Latha G, Professor, Indian Institute of Science Bangalore

Mr. Mahadeb Datta, Dy. Director (Technical), National Jute Board

Mr. Narendra Dalmia, CEO / Ms. Shabana Khan, Strata Geosystems (India) Pvt. Ltd.

Mr. Naval Kishor Ray, Garware Technical Fibres Ltd.

Ms. Parvathi G. S., Principal Scientist, CSIR - Central Road Research Institute

Mr. Vikramjiet Roy, Managing Director/ Dr. Ratnakar Mahajan, Maccaferri Environmental Solutions Pvt. Ltd.

Member Secretary : Mr. A.K. Dinkar, Secretary, CBIP

Treasurer : Mr. K.K. Singh, Director (WR), CBIP

The case study shall contain:

- A descriptive, but brief title • title, name(s) and affiliation of the author(s)
- Address for correspondence (including fax numbers and e-mail addresses)
- Detailed information about the objective, methods, results and conclusion, to enable a correct appraisal of the suitability of the proposed case study for the Workshop
- References at the end, with due reference in the text

The full text of the papers, not exceeding 08 pages of A4 size, in single space and 10 Point Normal Times Roman Font, both in MS Word and PDF, need to be sent through e-mail only at kamal@cbip.org. The text of the paper in English must be free from errors. Only original contributions that have not been published or presented at any other forum are acceptable. Standard and universally accepted abbreviations should be used. When a special abbreviation appears in the text for the first time, it should be accompanied by its extended form. The figures should be placed nearest to the first reference in the text and should not be larger than the print areas. Tables in the manuscript should be numbered consecutively and referred to in the text by their numbers. A suitable heading should also be provided. References should follow the text to be listed at the end in numerical order with the corresponding number cited in brackets at appropriate places.

REGISTRATION FEE

The registration fee payable, per delegate, including authors of papers, for participation in the Workshop is as follows:

Members of CBIP / IGS / ISRM	INR 6,000/-
Others	INR 7,000/-
Academic / Research Institutes	INR 5,000/-
Students	INR 4,000/-

To avail the student concession in the registration fee, the registration form/request will have to be submitted along with a certificate from the head of the Department/institute.

In case of 4 or more nominations from an organization, one delegate will be offered complimentary registration.

The registration fee covers the cost of registration kit, lunch and tea in-between the technical sessions. The participants will have to make their own arrangements for travel and stay. No financial support will be provided by the organizers. The last date for receipt of the registration form is 15 March 2024.

SPONSORSHIP OPPORTUNITY

The Workshop provides an effective opportunity for organisations/companies to sponsor/support the Seminar under following categories:

Category	Amount	Benefits
Sponsor	INR 2,00,000.00	<ul style="list-style-type: none">• Complimentary registration of upto five representatives• Distribution of promotion literature among the participants through the registration kit• Table top display of products/services• Company name and logo on Information Bulletin, banners, etc
Co-Sponsor	INR 1,00,000.00	<ul style="list-style-type: none">• Complimentary registration of upto three representatives• Distribution of promotion literature among the participants through the registration kit• Company name and logo on Information Bulletin, banners, etc
Supporter	INR 50,000.00	<ul style="list-style-type: none">• Complimentary registration of upto two representatives• Company name and logo on Information Bulletin, banners, etc

PAYMENTS

All payments shall be made by Bank draft/cheque payable at par at New Delhi in favour of the “The Comm for the IGS”. The payments can also be arranged by bank transfer as per details given below:

- Bank : Canara Bank
- Branch Name and Address : Delhi Diplomatic Enclave, 7/48, Malcha Marg, Chanakyapuri, New Delhi 21
- Account No. 0157101031508 • MICR Code No. 110015007 • Account Holder Name: THE COMM FOR THE IGS
- IFSC Code: CNRB0000157 • Swift Code: CNRBINBBDFS

SECRETARIAT

All correspondences relating to the Workshop should be addressed to:

Mr. A.K. Dinkar, *Member Secretary, IGS-India*

Plot No. 9, Malcha Marg, Chanakyapuri, New Delhi 110 021, India

Contact Persons: **Mr. K.K. Singh**, *Treasurer, IGS-India/* **Mr. Kamal Kumar**, *Manager (WR)*

Phone : +91-11- 2611 1294/2687 5017, Mobile: 8826434222 (Mr. Kamal Kumar)

Fax : +91-11-2611 6347 E-mail : kamal@cbip.org / meenakshi@cbip.org contact@geosyntheticsindia.org

Workshop on

Reinforced Soil Walls : Distresses and Remedies

5th - 6th April 2024, CBIP Hall, New Delhi

REGISTRATION FORM

(To be filled in block letters preferably typed)

1. Name of Participant _____
(Surname) (First Name) (Prefix Prof./Dr./Mr./Mrs./Ms.)
2. Designation: _____
3. Name of Organisation: _____
4. Mailing Address: _____
City _____ State _____
Country _____ PIN _____
Phone _____ Fax _____ E-mail _____
5. Payment details:
 - Bank Draft No. _____ dated _____ for INR _____ drawn on Bank _____
_____ is enclosed/is being sent separately.
 - Payment has been deposited with Canara Bank _____ Branch, on _____
 - Account No. 0157101031508 • MICR Code No. 110015007 • Account Holder Name: THE COMM FOR THE IGS
 - IFSC Code: CNRB0000157 • Swift Code: CNRBINBBDFS

Dated _____

Signature _____

Registration Form duly filled in, together with necessary payments to be mailed to

Mr. A.K. Dinkar, *Member Secretary, IGS-India*

Plot No. 9, Malcha Marg, Chanakyapuri, New Delhi 110 021, India

Fax: +91-11-2611 6347

E-mail: kamal@cbip.org; cbip@cbip.org

Note:

- Spot registration facilities will also be available, provided the prior information is received.