

M. VENKATARAMAN

Geosynthetics & Geotechnical Consultant

Vice President - Indian Chapter of International Geosynthetics Society

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Carrier Profile

M. Venkataraman obtained B.Tech – Civil Engineering in 1969 and obtained M.Tech – Soil Mechanics and Foundation from IIT , Madras in 1971. From 1971-1980, worked in Quasi Government organisations to design, execute infrastructure projects. From 1980-1985, worked as Project Manager for Swedish Consultant for Middle East Projects. In 1985, joined Netlon India, started Geosynthetics marketing in India and was involved in Geosynthetics Projects in Roads, Railways, Ground improvement with Netlon and Tensar products. In 1998, joined Garware-Wall Ropes Ltd and started the Geosynthetics Division and was associated for developing Polymer Rope Gabion, High strength rope net for rockfall protection, manufacturing multifilament fabrics, using membranes and GCL's in hazardous, municipal and solid waste projects. He retired as AVP from Garware in the year 2005. He served as full time advisor to Garware-Wall Ropes Ltd, Geosynthetics Division from the year 2005 till 2013. He is working as a Freelance Geotechnical & Geosynthetics Consultant from 2013 onwards.

Qualification

- B.Sc. Madras University - 1966
- B. Tech Civil, IIT Madras – 1969
- M.Tech, Soil Mechanics & Foundation, IIT Madras – 1971

Experience

- ❖ Total Experience as on date – 46 yrs in Geotechnical Engineering of which 31 yrs with focus on Geosynthetics Application.
- ❖ M. Venkataraman has written & published more than 50 technical's papers in various Geotechnical Journals.
- ❖ Involved in Design and Execution of projects involving Geosynthetics. Project size varying from 500 sq. meter to 3,00,000 sq. meter in every market segment and application area viz. Simple erosion control, Coastal and River protection, Rock-fall protection, Landslide control, Landfills, Roads, Ground improvement, Track bed stabilization for Railways and Reinforced soil structures etc.
- ❖ Has handled projects across the Country in Coastal & river protection works, Rockfall protection, Ground improvement, Reinforced Soil Walls & Railway Projects.

- ❖ He has handled Coastal Projects in Gujarat, Maharashtra, Kerala, Tamil Nadu, Andhra Pradesh, Odisha & West Bengal while working as Head of Garware-Wall Ropes Ltd., Geosynthetics Division.
- ❖ Instrumental in initiating and popularising the use of Geotextile Tubes for Coastal Protection in the Country.
- ❖ Has also developed indigenous products & systems for rockfall protection, reinforced soil walls and in river & coastal applications.
- ❖ Many of these have become established systems over the years from initial concept stage.
- ❖ He is also responsible for sponsored Research projects for various academic institutions in developing industrial consultancy and R & D related work.
- ❖ He has Published papers in Indian & International seminars.
- ❖ Associated with various Geosynthetics manufacturing Industries abroad.

Honours & Membership

- ❖ Honoured by the International Geosynthetics Society (Indian Chapter) and Central Board of Power and Irrigation, (CBIP) New Delhi for lifetime contribution for development and promotion of the use of Geosynthetics in India on 9th November, 2006 in New Delhi.
- ❖ Life Member of IGS (Indian Geotechnical Society).
- ❖ Member of International Geosynthetics Society (Indian Chapter) and also the current Vice President of the Indian Chapter of the International Geosynthetics Society (IGS).

Some of the Papers Published

- Embankments on Soft Grounds – Indian experiences; M Venkataraman, Source: Geosynthetics Asia'97 (Vol.I), 26-29 November; Bangalore, India
- Erosion control with Geo-grid; M Venkataraman & M Swaminathan, Source: Engineering with Geosynthetics – Compilation of Papers of Workshops held at Guwahati and Hyderabad, October 1995
- Rockfall protection; M Venkataraman, Source: Geosynthetics – Recent Developments (Two Decades Celebrations), Publication No.298 (2006)
- Innovative Geosynthetics Solution – An Indian Perspective; Tiru Kulkarni & M Venkataraman, Source: Three decades of Geosynthetics in India, New Delhi, Publication No. 327 (2015)
- Hazardous Waste Landfills Case Studies: Indian Experience; M Venkataraman & K Sreenivas, Source: Case Histories of Geosynthetics in Infrastructure Projects – Publication No. 289 (2003)
- Indian Experience in Design and Construction of Barrier System over the Last decade; M Venkataraman & Ranjit Dash, Source: Geosynthetics India 2013 (Silver Jubilee Celebrations), 23-25 October 2013, New Delhi
- 3 Decades of Usage of Geosynthetics in Coastal & River Protection in India; M Venkataraman : Source: 6th Asian Regional Conference on Geosynthetics, 8-11 November 2016, New Delhi, India

- Geosynthetics in Coastal & River Protection Works; M Venkataraman & R Murugesan, Source: Recent trends in River & Coastal Protection works – Work Shop at CWPRS, 11-12 June 2009, Pune, India
- Geogrid reinforced Soil Walls – Design & Performance under Earthquakes; G V Rao, M Venkataraman & PVS R Prasad, Source: International Seminar on Geosynthetics in India – Present & Future, 8-10 November 2006, New Delhi, India
- Use of Geofabrics forms for various applications; M Venkataraman, Source: Proceedings of Indo-Japan workshop on Coastal Protection & Mitigation measures – including the effects of Tsunami, IIT Madras, 16-17 July 2007, Chennai India
- The use of Polymer & Steel Wire Ropenets for ROckfall Protection with special reference to Konkan Railway; M Venkataraman, Source: International conference on Geosynthetics & Geo-environmental Engineering, ICGGE-2004, 8-10 December 2004
- Geosynthetics in Maritime & Hydraulic Structures; M Venkataraman & S Murugesan, Source: Indian National Conference on Advances in Hydraulic Engineering with Special emphasis on Model – Prototype conformity (INCAHE) 6-7 November 2008