



Bio data of Dr. K. Soman

Address: Dr. K. Soman, “Subha”, T. C. 32/458, Vazhayila, Peroorkada P O,
Thiruvananthapuram-695 005. E-mail kunjusom@yahoo.com
Mob: +91 9847083000.

Education record:

- Ph. D in Geology and Mineralogy (Economic Geology) from Peoples’ Friendship (Patrice Lumumba) University (PFU), Moscow, 1984.
- Training in ‘Geology, Prospecting and Exploration of Mineral Deposits’, PFU, Moscow, April-May 1979.
- M Sc. (Applied Geology-5yr. integrated Course- Qualified as Mining Engineer-Geologist with the award of M Sc. in Applied Geology, 1969-1974) from the Engineering Faculty of PFU, Moscow (through a USSR Govt.scholarship awarded through the Ministry of Education, Government of India in 1969).
- Pre Degree & Ist year of B Sc. (**Special**)-Chemistry, S N College, Kollam, Kerala 1966-1969.
- SSLC with award of National Merit Scholarship, CVKM HS, East Kallada, Kollam dist; Kerala, 1966.

Professional Record (in Government):

- Scientist, Centre for Earth Science Studies (CESS), Trivandrum **1979-2009**.
- Head, Resources Analysis Division, CESS, Trivandrum **1995-2009**.
- Geologist, Mineral Exploration Corporation Ltd (GoI u/t), Nagpur **1976-1979**.
- Asst. Geologist, Dept. of Mining & Geology, GoK **1975-1976** and
- Research Asst., Kerala State Planning Board 5 months in **1975**.

Nature of duties/professional/research activities:

During the period of Government service, worked in the field of geology, involving

- mineral exploration (for lime shell in Kannur district, quartz in Wayanad district and limestone in Walayar for the then proposed Malabar Cements Ltd.; bauxite exploration in parts of Andhra Pradesh and Odisha States)
- geological and geomorphological research in parts of Kerala
- preparation of natural resource inventory for south Kerala river basins, watershed (river basin) investigations, estimation of water resource potential of fresh water lakes (Sasthamkotta and Vellayani lakes), water quality/pollution studies
- landslide investigations
- studies on linkages between landuse/landscape alterations and estuarine/coastal productivity
- collaborative research projects on water quality /pollution themes and biogeochemistry of rivers and estuaries of Kerala with German research institution-Centre for Tropical Marine Ecology (ZMT), Bremen during 2003-2009.

Academic activities:

- Served as Member, Board of Studies in Kerala University (Geology PG) and Madras University (Geography)
- Expert Member in River Management Fund (Kerala) intermittently from 2008 to 2025.
- Member, south Asia Node (Colombo based) of LOICZ (Land-Ocean Interactions in the Coastal Zones of UNESCO programme) 2007- 2010
- Recognised Research Guide of the University of Kerala and CUSAT
- 4 scholars were awarded Ph D under my guidance.
- Guided 3 M Sc. students from ZMT, Bremen/Bremen University (Germany) on themes related to biogeochemistry of rivers/estuaries in Kerala.

International exposure:

- Attended 20 international conferences and presented papers related to themes on Kerala geology, mineral resources, pollution aspects etc.
- Short term geological assignments in Seychelles and Tajikistan for an Indian entrepreneur (after retirement)

Post-retirement engagements:

- **2009-2011** Project Director, **SRTT (Sir Ratan Tata Trust)** funded project for training High school teachers in Maths and English at Vakkom Moulavi Foundation Trust (VMFT), Trivandrum
- **2012- till date** Functional Area Expert in Geology and Hydrogeology for Environmental Impact Assessment (EIA) Projects on highways, high rise buildings, ports & harbor, parks projects with NABET (National Accreditation Board for Education & Training under Quality Council of India) accreditation (associated with KITCO, Cochin).
- **2014-2015** Guest Faculty in Geology, TKM Institute of Technology, Ezhukone, Kollam
- **2016-2019** Recognized Qualified Person (RQP) for preparation of Mining Plans for quarries by the Department of Mining & Geology, Government of Kerala
- **2021** Consultant for preparation of “Geological and geomorphological features in and around the proposed new **rail route tunnel (8.1 km)** for the Vizhinjam International Deep-water Multi purpose Sea Port (assigned by the Centre for Management Development, Thiruvnanthapuram), July-October 2021
- **2022** Prepared the report on “Geological and geomorphological features of the Anakkampoyil-Meppadi **road tunnel**”(8.7 km) linking Kozhikode and Wayanad districts for KITCO/Konkan Rly.
- **2022-2024** Consultant to KELTRON (Kerala State Electronics Development Corporation) for a project on “Implementation of a Decision Support System for the excavation and quantification of quarries using GIS and Drone LIDAR in the Department of Mining and Geology, Government of Kerala”

Publications:

Book

(1) **“Geology of Kerala”**, 1997, published by the Geological Society of India, Bangalore, 280p.

“Geology of Kerala”, 2002-second revised edition, 335p.

“Geology and Mineral Resources of Kerala”, 2023 Published by the Geological Society of India , Bengaluru, 324p.

(2) **Nammude Bhoomi-Khadanayum Paristithiyum** (Our Earth-Structure and Environment) published by the Kerala Language Institute, 2011 &2019, 116p. (in Malayalam).

(3) One of the editors of the book **“Ecohydrology of Kerala: River catchments and Coastal backwaters”** by Elsevier Publications, **2024**.

80 research papers on various aspects of geology/mineralogy/geomorphology, water resources, natural hazards, biogeochemistry, riverine/estuarine pollution etc related to Kerala in various national and international journals and seminar proceedings.

