

DR. SAHEBRAO SONKAMBLE

Scientist-E (Hydro-Geo-Environment)

Electrical & Heliborne Geophysics Group, Groundwater Division

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Google Scholar: <http://scholar.google.co.in/citations?user=bNow9KsAAAAJ&hl=en>

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Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=50263132000>



FIELD OF SPECIALIZATION:

- **Groundwater / Hydrogeological studies** [exploration for potential sites for borewell point, assessment, management, Pollution, Recharge, Groundwater modelling, Decision support tool (DST)]
- **Geo-technical studies for EIA of sanitary & secure landfill, TSDF sites and other pollution sites**
- **Industrial Pollution:** Groundwater contamination, pollution migration, mitigation and modelling studies
- **Seawater intrusion:** Coastal aquifer management and well development
- **Groundwater recharge:** Managed aquifer recharge (MAR), Rain water harvesting, Rain Gardens, Recharge ponds, and other rainwater harvesting techniques and groundwater budgeting
- **Aqueous geochemistry:** Hydrochemical evolution and processes
- **Wetland hydrology and soil aquifer treatment (SAT)** for enhanced wastewater treatment
- **Hydrochemistry and tracer studies** [Major ions & heavy metals chemistry, Tritium tracer for estimating recharge, Neutron probe moisture measurement]
- **Soil studies** (vadose zone, permeability, grain size, porosity, moisture, infiltration tests, contaminations)

EDUCATION:

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| 2012 | Ph.D. | Geology (Spl. Hydrogeology), Osmania University, Hyderabad, India |
| 2004 | M.Sc. | Environmental Technology, SRTM University, Nanded, India |
| 2001 | B.Sc. | Chemistry, Industrial Microbiology & Zoology, Osmania University, Hyderabad India |

PROFESSIONAL EXPERIENCE:

- | | |
|---------------------|--|
| 01/2023 - till date | Scientist-E , CSIR-National Geophysical Research Institute, Hyderabad, India |
| 01/2018 – 12/2022 | Scientist-D , CSIR-National Geophysical Research Institute, Hyderabad, India |
| 01/2014 - 12/2017 | Scientist-C , CSIR-National Geophysical Research Institute, Hyderabad, India |
| 02/2012 - 12/2013 | Addnl Area Party Chief (AQUIM-AQMAH) , CSIR-NGRI, Hyderabad, India |
| 07/2009 - 02/2012 | Project Assistant-III , National Geophysical Research Institute, Hyderabad, India |
| 01/2007 - 07/2009 | Project Assistant-II , National Geophysical Research Institute, Hyderabad, India |

R&D FACILITIES AVAILABLE

Hydrogeology Lab:

- 1) **Neutron moisture probe:** Measurement of moisture volume through slim hole
- 2) **Digital water level recorders (DWLR):** Measuring the continuous water level data
- 3) **Manual Water level sounder:** Measure the depth to water level my manual
- 4) **Pumping tests:** Aquifer test to determine Transmissivity and Storability

Hydrochemical lab:

- 1) **UV Visible Spectrophotometer:** Determine chemical parameters including heavy metals
- 2) **Flame Photometer:** Determine sodium, potassium, lithium
- 3) **pH & EC mater, DO Meter:** Determine pH, TDS and dissolved oxygen of water

- 4) **Wet chemistry lab:** Volumetric analysis facility for major ions, heavy metals

Tracer Hydrology lab:

- 1) **Tritium tracer injection and recovery system** for estimating groundwater recharge
- 2) **Liquid scintillation counter:** Measure the tritium activity in CPM

Soil studies lab:

- 1) **Soil auger** for collection of depth wise soil core samples
- 2) **Permeameter** for measurement of intact 10 cm soil permeability by using falling head and constant head method,
- 3) **EM Sieve Shaker** for soil grain size
- 4) **Vacuum distillation counter** for soil moisture extraction,
- 5) **Moisture balance** for measurement of moisture percent through adjustable balance,
- 6) **Double Ring Infiltrometer** for soil infiltration test

AWARDS AND HONOURS:

1. **UGC-NET** in Environmental Sciences during June 2005
2. **Merit Certificate in Leadership Training Diploma** by HIMS Hyderabad during September 2005
3. **Associate Fellow** of Telangana Academy of Science (2015) honored on 23-6-2016 CSIR-NGRI, Hyderabad
4. **AHI-Young Scientist Award** by Association of Hydrologist of India at ISM Dhanbad on Nov 10th, 2016.
5. **National Geoscience Award 2017** (Team) a prestigious award for Earth Science professionals by Ministry of Mines, Govt. of India. The award is conferred by **Hon'ble President of India Sri. Ram Nath Kovind** on May 16th, 2018 at Vigyan Bhavan, New Delhi. It is given under the category of Mineral Discovery & Exploration for Aquifer Mapping in different geological terrains in India using Ground and Airborne Geophysics.

PUBLICATIONS IN PEER REVIEWED SCI JOURNALS

2010

1. Sankaran S✉, Rangarajan R, Krishna Kumar K, **Saheb Rao S**, et al. (2010) Geophysical and Tracer studies to detect subsurface chromium contamination and suitable site for waste disposal in Ranipet, Vellore district, Tamil Nadu, India. *Environmental Earth Sciences* Vol. 60(4), pp 757-764, <https://doi.org/10.1007/s12665-009-0213-3> (IF 3.3)

2012

2. **Sonkamble S✉**, Sahya A, Mondal NC, Harikumar P (2012). Appraisal and evolution of hydrochemical processes from proximity basalt and granite areas of Deccan Volcanic Province (DVP) in India. *Journal of Hydrology*, Elsevier B.V. Publisher, Amsterdam, The Netherlands, Vol. 438-439, pp. 181-193, <https://doi.org/10.1016/j.jhydrol.2012.03.022> (IF 7.3)
3. Sankaran S, **Sonkamble S**, Krishnakumar K, Mondal NC✉ (2012) Integrated approach for demarcating sub-surface pollution and saline water intrusion zones in SIPCOT area: A case study from Cuddalore in Southern India. *Environmental Monitoring and Assessment*, Vol. 184(8), pp. 5121-5138, <https://doi.org/10.1007/s10661-011-2327-9> (IF 3.6)

2013

4. **Sonkamble S✉**, Sethurama S, Krishnakumar K, Purushottam Dhunde, Amarendra B, Satish Kumar V (2013) Role of geophysical and hydrogeological techniques in EIA studies to identify TSDF site for industrial waste management. *J Geol Soc India*, Springer Publications, Vol 81(4) pp. 472-480, <https://doi.org/10.1007/s12594-013-0063-1> (IF 1.5)

2014

5. **Sonkamble S✉**, Chandra S, Ahmed S, Rangarajan R (2014). Source speciation resolving hydrochemical complexity of coastal aquifers. *Marine Pollution Bulletin*, 78 (1-2), 118-129 doi.org/10.1016/j.marpolbul.2013.10.052, (IF 4.9)

6. **Sonkamble S**[✉], Agre H, Madhnure P, Chandra S, Ahmed S (2014). Hydrochemistry deducing basaltic trap thickness for groundwater resource mapping along the Deccan Volcanic Province (DVP) margin in India. *Environmental Earth Sciences* 71 (5), pp. 2319-2332. <http://doi.10.1007/s12665-013-2633-3> (IF 3.3)
7. **Sonkamble S**[✉], Satish Kumar V, Amarendra V, Dhunde PM, Sethurama S (2014) Delineation of Fresh Aquifers in Tannery Belt for Sustainable Development – a Case Study from Southern India. *J Geol Soc India*, Springer Publications, Vol 83 (3) pp. 279-289 <http://doi.10.1007/s12594-014-0040-3> (IF 1.5)
8. **Sonkamble S**[✉], Chandra S, Nagaiah E, Dar FA, Somvanshi VK, Ahmed S (2013) Geophysical signatures resolving hydrogeological complexities over hard rock terrain – a study from Southern India. *Arab J of Geosci* Vol. 7(6) pp 2249-2256, <http://doi.10.1007/s12517-013-0931-4> (IF 1.827, year 2020)
9. **Sonkamble S**[✉] (2014) Electrical resistivity and hydrochemical indicators distinguishing chemical characteristics of subsurface pollution at Cuddalore coast, India. *J Geol Soc India*, Vol 83 (5) pp. 535-548, DOI 10.1007/s12594-014-0081-7 (IF 1.5)
10. **Sonkamble S**[✉] (2014). Vulnerability assessment of coastal aquifer system for irrigation suitability – a classical approach from Southern India. *J Geol Soc India*, Vol 84 (1) pp. 209-220 (IF 1.5), <http://doi.10.1007/s12594-014-0125-z>
11. **Sonkamble S**[✉], Satishkumar V, Amerender B, Sethurama S (2013). Combined application of GPR, MERI and VES exploring groundwater potential zones in dry land environs: a study from Hyderabad, Southern India. *Arab J of Geosci*, Vol. 7(8) pp.3109-3117, <http://doi.10.1007/s12517-013-0998-y> (IF 1.827 year 2020)

2015

12. Starkl M[✉], Brunner N, Amerasinghe P, Mahesh J, Kumar D, Asolekar SR, **Sonkamble S**, et al. (2015) Stakeholder Views, Financing and Policy Implications for Reuse of Wastewater for Irrigation: A Case from Hyderabad, India. *Water*, 7(1), pp. 300-328 <https://doi.org/10.3390/w7010300> (IF 3.5)

2016

13. **Sonkamble S**[✉], Chandra S, Somvanshi VK, Ahmed S (2016) Hydro-geophysical techniques for safe exploitation of the freshwater resources in coastal area. *Environmental Earth Sciences*, 75 (4):279 <http://doi.10.1007/s12665-015-5210-0> (IF 3.3)

2017

14. Nagaiah E[✉], **Sonkamble S**, Mondal NC and Ahmed S (2017) Natural zeolites enhance groundwater quality: evidences from Deccan basalts in India. *Environmental Earth Sciences*, 76:536, pp. 1-17, <http://doi.10.1007/s12665-017-6873-5>, (IF 3.3)
15. Joy C[✉], LohithKumar K, Nagaiah E, **Sonkamble S**, et. al (2017) Vertical Electrical Sounding to delineate the potential Aquifer zones for drinking water in Niamey city, Niger, Africa. *J Earth System Sciences*, Vol 126 (6), No. 91, pp. 1-13, <http://doi.10.1007/s12040-017-0860-9>, (IF 2.1)

2018

16. **Sonkamble S**[✉], Wajihuddin Md, Jampani M, Sarah S, Somvanshi VK, et al. (2018) Natural treatment system (NTS) models for wastewater management: A study from Hyderabad, India. *Water Science and Technology*, 77(2) pp. 479-492. <http://doi.10.2166/wst.2017.565> (IF 2.8)
17. **Jampani M**[✉], Huelsmann S, Liedl R, Amerasinghe P, **Sonkamble S** Ahmed S (2018) Spatio-temporal Distribution and Chemical Characterization of Groundwater Quality of a Wastewater Irrigated System. *Science of the Total Environment*, 636, pp. 1089-1098. <https://doi.org/10.1016/j.scitotenv.2018.04.347>. (Cite Score 18.8)

2019

18. **Sonkamble S**[✉], Sahya A, Mahesh J, Ahmed S, Amerasinghe P (2019) Hydro-geophysical Characterization and Performance Evaluation of Natural Wetlands in a Semi-arid Wastewater Irrigated Landscape. *Water Research* 148, 176-187 doi.org/10.1016/j.watres.2018.10.040 (IF 12.8)
19. **Sonkamble S**[✉], Rangarajan R, Rajkumar R, Warsi T, Sambasivarao T, Ahmed S (2019) Appraising hydrograph dynamics of alluvial aquifers from Indo-Gangetic Plains. *J Geol Soc India*, 94 (5), pp 464-470, <https://doi.org/10.1007/s12594-019-1342-2>, (IF 1.5)

2020

20. Jampani M[✉], Liedl R, Hülsmann S, **Sonkamble S**, Amerasinghe P (2020) Hydrogeochemical and Mixing Processes Controlling Groundwater Chemistry in a Wastewater Irrigated Agriculture System of India. *Chemosphere*, Vol 749, 124749, <https://doi.org/10.1016/j.chemosphere.2019.124741> (Cite Score 21.1)

2021

21. Maurya VP[✉], Chandra S, **Sonkamble S**, Lohith Kumar K, Nagaiah E, Selles A (2021) Electrically Inferred Subsurface Fractures in the Crystalline Hard Rocks of a Experimental Hydrogeological Park, Southern India. *Geophysics*, 86 (3), pp 1-10 (IF 3.2) <https://doi.org/10.1190/geo2020-0327.1>
22. **Sonkamble S***, Chandra S (2021) GPR for earth and environmental applications: Case studies from India. *Journal Applied Geophysics*, 193, 104422 <https://doi.org/10.1016/j.jappgeo.2021.104422> (IF 2.6)

2022

23. Nagaiah E, **Sonkamble S**[✉], Chandra S (2022) Gradient resistivity profiling (GRP) for pin-pointing the bedrock fracture for groundwater exploration in granitic hard rocks of Southern India. *Journal of Applied Geophysics*, 199, 104610, <https://doi.org/10.1016/j.jappgeo.2022.104610> (IF 2.6)
24. **Sonkamble S**[✉], Chandra S, Pujari PR, (2022). Application of airborne and ground geophysics to unravel the hydrogeological complexity of the Deccan basalts in central India. *Hydrogeology Journal*, 30, 2096-2116 <https://doi.org/10.1007/s10040-022-02503-7> (IF 2.8)
25. Mizan SA, **Sonkamble S**[✉], Sharada A, Wajihuddin Md, Roy S, Dhar M (2022) Decision support system for sustainable groundwater management in crystalline hard rocks: implications for sugarcane agriculture, Southern India. *Environ Mon Assess*, 194(12), 918 <https://doi.org/10.1007/s10661-022-10641-4> (IF 3.6)

2023

26. Sahya A, **Sonkamble S**[✉], Jampani M, Rao AN, Amerasinghe (2023) Field site soil aquifer treatment shows enhanced wastewater quality: Evidence from vadose zone hydro-geophysical observations. *J Environmental Management*, 345, 118749 <https://doi.org/10.1016/j.jenvman.2023.118749> (IF 9.2)

2025

27. **Sonkamble S**[✉], Nagaiah. E, Appalanaidu E, Choudhury J, Tiwari VM (2025) Tracing Deep-Seated Saturated Fractures in Depleted Shallow Aquifer Systems in a Granitic Terrain: An Integrated Hydro-Geophysical Approach. *Natural Resources Research* 34 (3), pp 1603-1622 DOI: 10.1007/s11053-025-10456-3 (IF 6.0)
28. Maurya VP, Mishra A, Chandra S, Rani P, Akhil P, Choudhury J, Kumar L, Rao NS, **Sonkamble S**, et al (2025) Unravelling heterogeneities in the coastal basaltic aquifer in Saurashtra, India by Airborne Electromagnetics. *Near Surface Geophysics* 23 (4) 389-402 DOI: 10.1002/nsq.70017 (IF 1.4)
29. Rani P, Mishra A, Maurya VP, Chandra S, Choudhury J, Kumar L, Rao NS, Singh KP, **Sonkamble S** et al. (2025) Airborne electromagnetic imaging of canal-induced recharge on groundwater quality improvement in saline affected alluvial region of NW India. *Near Surface Geophysics* 23 (4) 378-388 DOI: 10.1002/nsq.70016 (IF 1.4)

2026

30. Appalanaidu E, **Sonkamble S**[✉], Surinaidu L, Nagaiah E, Chandra S (2026) Geospatial and hydrogeophysical appraisal of a shallow aquifer in crystalline hard rocks: Insights for sustainable irrigation practices in the Nagavali watershed, India. *Hydrogeology Journal* 34, 77-101 doi:10.1007/s10040-025-02990-4 (IF 2.8)
31. Kethavath KL, **Sonkamble S**[✉], Rao M (2026) Aquifer settings and interflow dynamics across continental flood basalt: A synthesis of hydro-geophysical evidence. *Journal of Hydrology* 680 (Part B), 136516, DOI: 10.1016/j.jhydrol.2026.136516 (IF 7.3)

Communicated/Under Review

PUBLICATIONS IN BOOKS / BOOK CHAPTERS /NEWS LETTERS

1. Amerasinghe P, Jampani M, **Sonkamble S**, Md. Wajihuddin, Boisson A, Ahmed S (2015) Characterization and Performance Assessment of Natural Treatment Systems in a Wastewater Irrigated Micro-watershed:

Musi River Case Study. '*Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context*, Thomas Wintgens et al., Saph Pani Hand Book Chapter 11, pp. 177-189.

https://books.google.co.in/books?hl=en&lr=&id=CK3QDAAAQBAJ&oi=fnd&pg=PA177&dq=info:KatamnsX1ewJ:scholar.google.com&ots=pW9nlg7muW&sig=TeXYYb8eKW5a9JQBmlmczorX5R4&redir_esc=y#v=onepage&q&f=false

- Amerasinghe P, Sonkamble S, Jampani M, Md. Wajihuddin, Elango L, Starkl M, Sarah S, Md. Fahimuddin, Ahmed S (2015) Developing integrated management plans for Natural Treatment Systems in urbanised areas –Case studies from Hyderabad and Chennai. '*Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context*, Thomas Wintgens et al., Saph Pani Hand Book, Chapter 15, pp. 253-266.

https://books.google.co.in/books?hl=en&lr=&id=CK3QDAAAQBAJ&oi=fnd&pg=PA251&dq=info:jQ6gfWcdN9IJ:scholar.google.com&ots=pW9nlg7lz0&sig=DHO6S02fbCqQ4WejcsnMWRN7Zww&redir_esc=y#v=onepage&q&f=false

DELIVERABLES

- Dinesh Kumar, S.R. Asolekar, P. Amerasinghe, S. Ahmed, A. Boisson, M. Jampani, S. Sonkamble, M. Alazard (2014) Report on strategies for enhancement of constructed wetlands and other natural treatment systems. Work Package 3, D3.3 under Saph Pani Project. <http://www.saphpani.eu/downloads.html>
- S. Ahmed, **S. Sonkamble**, L. Elango, P. Amerasinghe, S. Asolekar, et al. (2014). Development of integrated management plans for natural treatment systems in Urbanized areas (Case of Hyderabad and Chennai). Work Package 6, Deliverable 6.4 under Saph Pani Project. <http://www.saphpani.eu/downloads.html>
- Conceptual model of flow and transport for a hard rock aquifer-Musi River microwatershed case study. Saph Pani Deliverable 3.2.[Project report of the Enhancement of Natural Water Systems and Treatment Methods for Safe and Sustainable Water Supply in India (Saph Pani)]. 56p. <https://cgspace.cgiar.org/handle/10568/71198>

NEWS LETTERS

- Enhancement of natural water systems and treatment methods for safe and sustainable water supply in India. Biannual Newsletter 6, 28th of October 2014. http://www.saphpani.eu/fileadmin/uploads/Administrator/Newsletters_and_Leaflets/Saph_Pani_Biannual_Newsletter_6.pdf

PUBLICATIONS IN PEER REVIEWED NON-SCI JOURNALS

- Padhi S, Rangrajan R[✉], Rajeswar K, **Sonkamble S**, Venkatesam V (2017) Assessment of Hydro-geochemical Evolution Mechanism and Suitability of Groundwater for Domestic and Irrigation Use in and Around Ludhiana city, Punjab, India. *J. Ind. Geophys. Union* 21 (4), 260-270
- Dimri VP[✉], Padhy S, Mondal NC, Reddy GK, Ramacharyulu G, Singh VS, **Sonkamble S**, Shanker C (2021). The observed thermal anomaly as an earthquake Precursor: A case study from the 1993 Latur earthquake prone area in Western India. *J. Ind. Geophys. Union*, 25(4), 1-11

SCIENTISTS WITH WHOM COLLABORATED (OUTSIDE NGRI):

- Dr. Alexandre Boisson, Bureau de Recherches Géologiques et Minières (BRGM), France
- Dr. Priyanie Amerasinghe, International Water Management Institute (IWMI), Colombo, Srilanka
- Prof. Shyam Asolekar, Centre for Environmental Science and Engineering, Indian Institute of Technology (IIT) Bombay, INDIA

PH.D SUPERVISIONSHIP IN UNIVERSITIES:

- Recognized Ph.D Guide in Geology Dept., Osmania University, Hyderabad, India.
- Recognized Ph.D Guide in Environmental Science Dept., Osmania Univ, Hyderabad India
- Recognized Ph.D Guide in Environmental Science Dept., Andhra Univ, Visakhapatnam, India.
- AcSIR Faculty in Physical Sciences and Ph.D Guide at CSIR-NGRI Hyderabad, India.

PH.D GUIDED/UNDER PROGRESS:

1. **Dr. K. Lohith Kumar**, Ph.D Title 'Hydro-geophysical characterization of basalt-granite transboundary aquifers at eastern margin of Deccan Volcanic Province Adilabad, Telangana state". Ph.D awarded in Geophysics on Sep 19, 2020 by Osmania University, Hyderabad, India
2. **Mr. E. Appalanaidu** (DST-INSPIRE Fellow) has enrolled for Ph.D under AcSIR Ph.D programme of Aug-2022 session on July 6th, 2022 at CSIR-NGRI. He is working on "Hydro-geophysics appraising dynamic groundwater resources for sustainable irrigation practices in crystalline hard rocks"
3. **Mr. Sagar Sanjay Phadnis** (CSIR UGC-JRF) has enrolled for Ph.D under AcSIR Ph.D program of Aug-2023 session at CSIR-NGRI on Aug 1st, 2023. He is working on "Assessing Hydrochemical and Hydrogeological dynamics during MAR in Hardrock terrain" (**Dropped, as he joined in GSDA, Maharashtra**)
4. **Ms. Sainjali Parbosa** (CSIR JRF) has enrolled (No. 10PP26A28008) for Ph.D under AcSIR Ph.D program Aug-2026 session at CSIR-NGRI on Aug 3rd, 2026 with Ph.D topic entitled "Establishing critical saprolite thickness and hydraulic residence time thresholds for contaminant attenuation in hard rocks of India"

GUIDED MASTER'S THESIS/ WINTER-SUMMER TRAINEE:

1. **Mr. G. Balakrishna**, MSc (Geophysics Roll No. 100717512010) at Centre of Exploration Geophysics, Osmania University, Hyderabad has completed Summer Training Program session 2018-19 (Aug-Sep). Training carried out on 'Geophysical characterization of hard rock aquifer using high resolution electrical resistivity tomography (ERT)' at CSIR-NGRI
2. **Ms. Rupanai Bhavana**, B.Tech. II (Civil) Hall Ticket No.100517732043, University College of Engineering, Osmania University Hyderabad has completed Winter Training Program for the Session Dec-Jan 2018-19 on the topic 'Demarcation Of Potential Aquifer Zones In Hard Rock Terrain Using RS And GIS: A Case Study From Hard Rock Terrain' during Dec 6th, to Feb 24th, 2019 at CSIR-NGRI
3. **Mr. G. Venkata Sai Kumar Reddy**, MSc II Year (Geophysics Hall Ticket No.100717512002) at Centre of Exploration Geophysics, Osmania University, Hyderabad has completed Winter Training Program for the Session Dec-Jan 2018-19 on the topic Determining Groundwater Contamination Using High Resolution Electrical Resistivity Tomography (ERT) during Dec 6th, 2018 to Feb 24th, 2019 at CSIR-NGRI
4. **Ms. Haritha.M.A**, M.Sc II Year (Earth Sciences), bearing the Register No.OST-2017-25-05 in Department of Earth Sciences, Kerala University of Fisheries and Ocean Studies (KUFOS) has successfully carried out her Master's Dissertation Programme (2018-19) on the topic "Hydro-chemical characterization of coastal aquifers: A study from Nagapattinam coast' during Jan 1st, 2019 to March 28th, 2019 at CSIR-NGRI Hyderabad.
5. **Kedar Chandrakant Velapurkar**, M.Sc II Year (Geology) bearing the PRN No. MSCI/GEOLOGY/2022/143/10 in School of Earth Sciences, Swami Ramanand Teerth Marathwada University, Nanded has successfully carried out his Winter Internship program (2023-24) on the topic "**Groundwater recharge studies using tritium as a tracer in granitic hard rocks**" during Dec 4th, 2023 to Jan 19th, 2024 at CSIR-NGRI Hyderabad.
6. **Mr. Kalavakollu Gopinadh**, M.Sc II year (Geology) in Department of Geology, Sri Venkateswara University Tirupati, Andhra Pradesh, has successfully carried out his Winter Internship program (2024-25) on the topic " **Determining permeability of different soils of vadose zone in hard rocks**" during Dec 20th, 2024 to Jan 31th, 2025 at CSIR-NGRI Hyderabad.
7. **Mr. Sanjay Sahoo, M.Sc II year (Geology)** Department of Geology, Institute of Science, Banaras Hindu University, Varanasi, has successfully carried out his Winter Internship program on 'Hydrogeological characterization of granitic top soil for recharge studies in CSIR-NGRI campus, Hyderabad, India' during 01-07-2025 to 12-08-2025 at CSIR-NGRI, Hyderabad
8. **Mr. Ruturaj Milind Buktare, M.Sc II year (Geophysics)** from SRTMU Nanded has successfully carried out his Winter Internship program on 'Electrical resistivity tomography for hydrogeological characterization in granitic terrain' during 05-12-2025 to 31-01-2026 at CSIR-NGRI Hyderabad.
9. **Ms. Maitreyee Shakys, M.Sc II year (Geology)** from Department of Earth Science , Banasthali Vidyapith, Rajasthan has successfully carried out her Masters Dissertation Program on 'Determining soil permeability in wastewater irrigated area" during 02-12-2025 to 13-06-2026 at CSIR-NGRI Hyderabad.

SERVICE:

1. Team Leader for **Niger (Africa)** Geophysical Exploration survey for groundwater project

2. **Addl Area Party Chief**, Nagpur pilot study of **AQUIM project** (World Bank Funded)
3. Active participant in executing **Saph Pani Project** (European Union Funded)
4. Active participation in awareness campaign on World Water Day, March 22nd, 2016 at Hyderabad, India
5. Recognized as '**Radiological Safety Officer**' by Radiological Physics and Advisory Division, BARC, Mumbai and Indian Association for Radiological Protection. No. RA-49/2018/300

REVIEWER FOR SCI JOURNALS:

Elsevier Publications	Springer Publications	nature	Wiley Publications
Water Research	Water Resources Management	Scientific Reports	Hydrogeo Sci Journal
Journal of Hazardous Materials	Environmental Earth Sciences		Near Surface Geophysics
Journal of Hydrology	Environmental Monitoring and Assessment		
Science of the Total Environment	Applied Water Science		
Environmental Science and Policy	J Earth System Sciences		
Journal of Applied Geophysics	J Geol Soc India		
Physics and chemistry of the Earth	Natural Resources Research		
Marine Pollution Bulletin	Hydrogeology Journal		

ABROAD DEPUTATIONS:

1. **Niger (Africa):** Visited Niger country of West Africa for reconnaissance survey to identify potential groundwater sources using geophysical methods under Niger Project during March 9-16, 2016.
2. **Niger (Africa):** Visited Niger to carry out electrical resistivity survey locating potential groundwater points in rural areas of Niger country and covered 136 villages during April 19, 2016 to July 16, 2016
3. **Germany:** Visited Cologne in Germany to attend and present the research paper at Water Security and Climate Change Conference 2017 held during Sep 18-21, 2017 (period of visit is during Sep 16-23, 2017)

MEMBERSHIP IN ORGANIZATIONAL / NATIONAL / INTERNATIONAL COMMITTEES.

1. Member of 'International Association of Hydrogeologists'. Member ID: 138663

EXTERNAL EXAMINER/ MEMBER ASSESSMENT COMMITTEES

1. Member of the Assessment Committee for up-gradation of UGC JRF to SRF in Environmental Science Department, University College of Science, Osmania University, Hyderabad, India
2. External Expert for engagement of project staff at CSIR-NEERI, Nagpur, India
3. Member of Board of Examiners for PhD Viva Voce, Depts. Environmental Science and Botany, Osmania University Hyderabad
4. Chairman & External Expert for Specification Committee for the procurement of Multi-electrode Resistivity Imaging System at NCESS Trivandrum

WORKSHOPS/TRAINING PROGRAMMES CONDUCTED:

1. International Training Workshop on **Surface Geophysics for Groundwater-Resources Exploration and Aquifer Characterization** conducted by CSIR-NGRI in association with USGS during Dec 2-12, 2014 at CSIR-NGRI Hyderabad

2. **GIS Applications for Aquifer Management** organized by CSIR-NGRI for GSDA professionals during March 1-5, 2016 at CSIR-NGRI Hyderabad
3. **7th Asian G-WADI Meeting cum Workshop** organized by CSIR-NGRI during Nov 26-29, 2017 at CSIR-NGRI Hyderabad
4. Stakeholder Meeting cum Workshop in connection with WWF India project conducted by CSIR-NGRI on Dec 20th, 2017 at Raheja Towers, Level 10 & 11, 26-27, Mahatma Gandhi Road, Bangalore
5. Training workshop on **“Capacity Building of Stakeholders adapting DST for sustainable groundwater management in sugarcane growing areas”**. The stakeholders were from EID Parry Sugar Mills of Sankili, Srikakulam dist. And Haliyal, Uttar Kannada dist. (KA), during March 27-28, 2018
6. Training workshop on **“Capacity Building of Stakeholders adapting DST for sustainable groundwater management in sugarcane growing areas”** on June 22nd, 2018. The stakeholders were from Olam Sugar Mills of Kolhapur (MH) and Barwani (MP), during Sep 17-22, 2018.
7. **Skill India:** Training Course on **“Geophysics for Groundwater Exploration and Management”** at CSIR-National Geophysical Research Institute, Hyderabad-500007 during Sep 17-22, 2018.
8. **Orientation program on “Adapting and management of the Decision Support Tool for sustainable groundwater management in sugar cane areas of Nagavalli Watershed”** to EID Parry Sugar Mill staff, Sankili, Srikakulam dist (AP) on October 5th, 2018
9. **Orientation program on “Adapting and management of the Decision Support Tool for sustainable groundwater management in sugar cane areas of Tattihalla Watershed”** to EID Parry Sugar Mill staff, Haliyal, Uttar Kannada dist (KA) on October 8th, 2018
10. **Skill India:** Training Course on **“Groundwater Exploration Techniques”** at CSIR-National Geophysical Research Institute, Hyderabad-500007 during July 29- Aug 10, 2019.
11. **Skill India:** Training Course on **“Geophysics for Groundwater Exploration Techniques”** at CSIR-National Geophysical Research Institute, Hyderabad-500007 during Jan 28 to Feb 10, 2021 organized by CSIR-NGRI Hyderabad. Videography and detailed explanation of VES data collection, analysis and interpretation with case studies.
12. **Skill India:** Training Course on **“Hydro-Geophysical Techniques for Groundwater Exploration”** at CSIR-National Geophysical Research Institute, Hyderabad-500007 during July 31- Aug 12, 2023 organized by CSIR-NGRI Hyderabad. Faculty member for two sessions on ‘Environmental Geophysics and Applications of GPR in Earth and Environmental aspect’ on Aug 8th, 2023.
13. **Society Connect:** The event was conducted under the “One Week One Lab” program of CSIR. The society connect event was conducted in Experimental Hydrogeological Park, Choutuppal on Sep 7th, 2023 at which was witnessed by about 200 farmers from UP, Haryana, Karnataka, Maharashtra, AP and Telangana states, and also about 25 school students.
14. **Unveiling Ceremony:** Conducted the program to Release of Reports on ‘Aquifer mapping with focus on paleochannels in parts of Ganga Yamuna Doab in Kurukshetra-Kanpur stretch’ at CSIR-IITR Lucknow on Sep 25th, 2023. It is witnessed by Minister of Jal Shakti, GoUP; Exe Director NMCG; Director-UPGWD; Director CSIR-IITR; Dr. VM Tiwari, Ex Director CSIR-NGRI
15. **Skill India:** Training Course on Geophysics for Hydrogeophysical techniques for groundwater exploration at CSIR-National Geophysical Research Institute, Hyderabad-500007 during Feb, 12-23, 2024 organized by CSIR-NGRI Hyderabad. Faculty member for two sessions on ‘Geo-Environmental Studies followed by Lab visits and explanations on Feb 20th, 2023.
16. **Skill India:** Training on Basics and Hands-on training Using “Non-invasive Electrical geophysical Exploration for groundwater Research (Bhu-NEER 2025)” conducted during Mar 21-28, at CSIR NGRI, Hyderabad. Played a role as Course Co-Coordinator and Faculty for Theory and Guide for field visit to EHP, Choutuppal
17. **Skill India:** Training on Basics and Hands-on training Using “Non-invasive Electrical and Electromagnetic geophysical Exploration for groundwater Research (Bhu-NEER 2026)” conducted during Feb 2-9, 2026, at CSIR NGRI, Hyderabad. Played a role as Course Co-Coordinator and Faculty for Theory and Guide for field visit to EHP, Choutuppal

TRAINING PROGRAMMES ATTENDED:

1. **Sonkamble S** (2015) Attended '**29th Induction Training Programme**' organized by CSIR-HRDC, Ghaziabad during Dec 15-24, 2015 at CSIR-HRDC Ghaziabad.
2. **Sonkamble S** (2017) Attended '**Training Programme on Management of Scientific Research for value Creation for Scientists**' organized by CSIR-HRDC, Ghaziabad during March 1-3, 2017 at CSIR-HRDC Ghaziabad.
3. **Sonkamble S** (2017) Attended the training program on '**Creativity and Innovations for Rural Societies**' organized by CSIR-HRDC during Dec 3-7, 2017 at CSIR-HRDC Ghaziabad
4. **Sonkamble S** (2018) Participated in 'Advanced Training on AEM (SkyTEM) data processing' organized by NGRI in collaboration with Aarhus University at CSIR-NGRI Hyderabad during Jan 4-5, 2018
5. **Sonkamble S** (2018) Participated and successfully completed the Training course on '**Safety Aspects in the Research Application of Ionizing Radiation RA-49**' conducted by Radiological Physics and Advisory Division, BARC, Mumbai in association with Indian Association for Radiological Protection, during Jan 22-30, 2018 during January 22-30, 2018. RSO No. RA-49/2018/300
6. **Sonkamble (2018)** Attended the Stakeholders meeting in connection with closing of WWF project and deciding the launching of App – Cane Doctor/EID Farmers Connect at EID Parry (I) Ltd. Office, Bellary Road, Hebbal, Bangalore on May 31st, 2018.
7. **Sonkamble S** (2023) Attended a training program on "Integrated surface water and groundwater modelling" with hands on MIKE SHE and FEFLOW software. The training was conducted by DHI (India) and CSIR-NGRI Hyderabad during May 2-4, 2023 at CSIR-NGRI Hyderabad.

CONFERENCE/WORKSHOPS/SEMINARS (INTERNATIONAL)

1. Sankaran S, **Saheb Rao S**, Krishnakumar K (2008). Importance of Geology and Geomorphology in Environmental Impact Assessment Studies at **International Workshop-2008 on Spatial Technology in Geosciences** during 5th-6th Feb, 2008 organized by AP Geographical Society at National Geophysical Research Institute, Hyderabad.
2. Sankaran S, Yadaiah P, Smita V, Krishnakumar K, **Saheb Rao S** (2009). Geophysical Investigations for Suitability of a TSDF Site. "**Joint International Convention of 8th IAHS Scientific Assembly and 37th IAH Congress**" September 6-12, 2009, Hyderabad, India.
3. Anand Kumar K, Sankaran S, and **Saheb Rao S** (2009). Modified Low cost Compact Biogas production plant- A proto Type in NGRI" presented at "**International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium (ICAMB-2009)**" held during 14–16th December 2009 at the School of Mechanical and Building Sciences, VIT University, Vellore, Tamilnadu, India, T6D004/6070, pp 141.
4. Sankaran S, **Saheb Rao S**, Krishnakumar K, Purushottam Dhunde, Porchelvam V, and Bala Murali Krishna C (2009). Hydro-geological Investigations in VIT University, Vellore Campus Spresented at "**International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium (ICAMB-2009)**" held during 14 – 16 December 2009 at the School of Mechanical and Building Sciences, VIT University, Vellore, Tamilnadu, India. T8B009/9019, pp 191.
5. Sankaran S, **Saheb Rao S**, Purushottam Dhunde (2010). 'Delineation of freshwater zone for sustainable development in Tannery belt of Ambur watershed, Vellore dist. Tamilnadu (INDIA). "**Indo-Italian Workshop on Sustainable Development of Ground Water Resources**" on October 20th, 2010, held at National Environmental Engineering Research Institute (NEERI), Nagpur, Maharashtra. S. No.6, pp 47-64.
6. Sankaran S, Mondal N.C, **Saheb Rao S**, Dhunde. P, Amarendar. B, and Harikumar. P (2011). 'Interaction between soil infiltration and groundwater in dryland environ: a case study from Hayatnagar research farm of CRIDA, Hyderabad' "**International Groundwater Conference, (IGWC 2011) on The Impact of Climate Change on Groundwater Resources with special reference to Hard rock Terrain**", held at Madurai, Tamil Nadu, India (September 27-30, 2011), TS-3-18, pp 57-58.
7. Somayaji Siva Rama Krishnan, S. Sankaran and **Sahebrao Sonkamble** (2011). Challenges in managing E-waste in India. "**2nd International Conference on Advances in Mechanical, Manufacturing and Building**

- Sciences (ICAMB – 2012)”** during 9-11 December, 2011, Technical Session T8B Energy and Environment Engineering, ICAMB ID 8027, Sr. No. 2.
8. **Sahebrao Sonkamble**, Ashalata Sahya and N.C. Mondal (2012). Hydrochemistry from proximity basalt and granite areas of Deccan Volcanic Province (DVP) margin, India. **“5th International Groundwater Conference-2012”** jointly organized by Association of Geologist and Hydrogeologists (GEOFORUM) Maharashtra, India and Maulana Azad College of Arts, Science and Commerce, Aurangabad, Maharashtra, India during December 18-21, 2012. TS-4-18, page 192
 9. **Sahebrao Sonkamble**, Sethurama S, Purushottam Dhunde, Satish V, and Amarendar B (2012). Groundwater exploration in dry land environ: A geophysical approach. **“5th International Groundwater Conference-2012”** jointly organized by Association of Geologist and Hydrogeologists (GEOFORUM) Maharashtra, India and Maulana Azad College of Arts, Science and Commerce, Aurangabad, Maharashtra, India during December 18-21, 2012. Technical Session-1-048, page 86.
 10. H Mahesh Jampani, **Sahebrao Sonkamble**, Priyanie Amerasinghe, Shakeel Ahmed (2014) Musi River Wetland: Performance Assessment and Proposal for Engineering Intervention for Performance Improvement. International Conference on “Natural Treatment Systems for Safe and Sustainable Water Supply in India: Results from the “Saph Pani Project”. Jointly organized by University of Applied Sciences and Arts, Northwestern Switzerland and National Institute of Hydrology, Roorkee, India at India Habitat Centre, Lodhi Road, New Delhi during September 18th – 19th, 2014.
 11. **Sahebrao Sonkamble** (2014) Development of integrated management plans for integrating natural treatment systems in urbanised areas. Saph Pani Project, Final Review Meeting at India Habitat Centre, Lodhi Road, New Delhi during September 20th, 2014.
 12. Subash Chandra, P. K Maurya, **S. Sonkamble**, E. Nagaiah, Esben Auken, Shakeel Ahmed and S. K. Verma (2014) Heliborne Geophysical Mapping of Deep Aquifers in Granitic Gneisses and Schistose rocks of South India and Deccan Basalt in Central India. **36th Annual Convention, Seminar and Exhibition on “Exploration Geophysics”** special theme ‘Advanced Geophysical Techniques in Exploration of Deep Seated Resources. Organized by Association of Exploration Geophysicists at CSIR-NGRI, during October 16th – 18th, 2014, TS V(B), Abst-48
 13. Pratyusha A, **Sahebrao Sonkamble**, Shakeel Ahmed (2014) Wetlands as natural treatment systems for wastewater. Paper presented at **“4th International Conference on Hydrology and Watershed Management”** with a focal theme on Ecosystems Resilience – Rural and Urban Water Requirements, held at Jawarlal Nehru Technological University, Hyderabad 500085, Telangana State, India, during 29th October – 1st November, 2014. TS 4, pp. 35
 14. **Sonkamble S**, Wajihuddin Md, Ahmed S (2015) Natural wetlands show enhanced wastewater treatment. Presented before ‘Indo-French Scientific Council’ held at CSIR-NGRI Hyderabad during Nov 19th- 20th, 2015
 15. Chandra S, Auken E, **Sonkamble S**, Ahmed S, Clausen OR, Verma SK (2016) Aquifer and their tectonic connectivity in flood basalts using AEM. AGU Fall meeting, Paper No. NS21C-05, T.S No. NS21C Dec 12-16, 2016
 16. Chandra, S. **Sonkamble S**, Auken E, Ahmed S, Verma SK (2017) Mapping of 3D Hydrogeological Framework of the Deccan Basalt Groundwater Systems Using AEM. At Second European Airborne Electromagnetics Conference, at Malmo, Sweden, during Sep 3-7, 2017. Session: Real World Problems II, DOI: 10.3997/2214-4609.201702164
 17. **Sonkamble S**, Wajihuddin. Md, Ahmed S, et al. (2017) Natural wetlands as energy efficient wastewater treatment systems: A pilot study from Hyderabad, India. Presented at Water Security and Climate Change Conference 2017 held in Cologne, Germany during Sep 18-21, 2017. T.S. 9, ID 229, pp. 91
 18. **S Sonkamble** (2017) Natural wetlands as enhanced wastewater treatment systems – a pilot study from Hyderabad. Poster presented at ‘5th India Water Week-2017’ held at Vigyan Bhavan and Indira Gandhi Centre for the Arts (Stall No. 1, CSIR), New Delhi, during Oct 10-14, 2017.
 19. **S. Sonkamble** & Saph Pani team (2017) Managed Aquifer Recharge (MAR) and Soil Aquifer Treatment (SAT) Major findings from pilot studies, Hyderabad. Presented at 7th Asian G-WADI Meeting cum Workshop held during Nov 26-30, 2017 at CSIR-NGRI, Hyderabad

20. Sahya A, Narsing Rao A, **Sonkamble S**, Mahesh J, Ahmed S (2019) Deep-seated wetland shows enhanced wastewater treatment: Evidences from hydro-geophysical characterization. Accepted to be presented at 5th International Conference on Hydrology and Watershed Management with a Focal Theme on “Urban Water Management for Sustainable Development” Jawaharlal Nehru Technological University Hyderabad Feb 12-15, 2019 at JNTU Hyderabad.
21. **Sonkamble S**, Balakrishna G, Nagaiah E, Chandra S (2019) Characterizing hard rock aquifers employing high resolution electrical resistivity tomography (ERT) and Ground Penetrating Radar (GPR). International Seminar on Advances in geosciences for Exploration of Minerals, Oil & Gas during March 14th-15th, 2019 at Centre of Exploration Geophysics, Osmania University, Hyderabad, India. Tech. Session-III, S.No. 9, 47-48
22. Bhavana R, **Sonkamble S** (2019) Demarcation of Potential Aquifer Zones in Hard Rock Terrain Using RS and GIS: A Case Study from Hard Rock Terrain. International Seminar on Advances in geosciences for Exploration of Minerals, Oil & Gas during March 14th-15th, 2019 at Centre of Exploration Geophysics, Osmania Univ., Hyderabad, India. Tech. Session-IV, S.No. 15, pp. 58-59
23. Sahya A, Narsing Rao A, **Sonkamble S** (2019) Hydro-Geophysical Characterization of Wastewater Fed Natural Wetland in Musi River Basin, Hyderabad, India. International Seminar on Advances in geosciences for Exploration of Minerals, Oil & Gas during March 14th-15th, 2019 at Centre of Exploration Geophysics, Osmania Univ., Hyderabad, India. Tech. Session-III, S.No. 5, pp. 44-45
24. Nagaiah E, **Sonkamble S**, Chandra S (2019) Integrated Geophysical Scans Exploring Potential Aquifer Sites Precisely in Hard Rocks of Dharwar Craton. International Seminar on Advances in geosciences for Exploration of Minerals, Oil & Gas during March 14th-15th, 2019 at Centre of Exploration Geophysics, Osmania Univ., Hyderabad, India. Tech. Session-III, S.No. 6, pp. 45-46
25. Lohithkumar K, **Sonkamble S**, Madhusudan Rao B (2019) High Resolution Electrical Resistivity Applications Exploring Basalt-Granite Transboundary Aquifer Systems at Deccan Volcanic Provinces (DVP). International Seminar on Advances in geosciences for Exploration of Minerals, Oil & Gas during March 14th-15th, 2019 at Centre of Exploration Geophysics, Osmania University, Hyderabad, India. Tech. Session-I, S.No. 6, pp. 5-6
26. **Sonkamble S**, Chandra S, Bhondwe AB, Pujari PR, Ahmed S (2019) Groundwater occurrences in Deccan basalts: Its precise mapping through integrated geophysics. Presented at 1st Indian Near Surface Geophysics Conference & Exhibition during Nov 28-29, 2019 at New Delhi. Tech Session No. 3
27. **Sonkamble S**, Chandra S (2019) Applications of ground penetrating radar (GPR) for earth and environmental purposes. Poster presented at 1st Indian Near Surface Geophysics Conference & Exhibition during Nov 28-29, 2019 at New Delhi. Poster Session No. 3
28. Mishra A, Chandra S, Choudhury J, Akhil P, Lohith Kumar K, **Sonkamble S**, Joy A (2023) Role of Airborne Magnetism in Delineating Weak Zones Vulnerable for Tunneling in Hilly Region: Joint Interpretation of Airborne Magnetic and EM Data. Paper presented at 2nd EAGE/Aqua Foundation Indian Near Surface Geophysics Conference & Exhibition, New Delhi on Nov 7th, 2023. Issue 1, pages 1-4. European Association of Geoscientists & Engineers

CONFERENCE/WORKSHOPS/SEMINARS (NATIONAL)

1. **Saheb Rao S** (2007) Comparative study of groundwater quality of basaltic and granitic aquifers from Dharmabad and Basar areas” during 23-24th Feb, 2007 at **National Scientific Conference on “Groundwater Management –Need of the Time”** organized by National Geophysical Research Institute, Hyderabad-500007, paper published in ‘Vasundera’ magazine of NGRI, pp 79.
2. Sankaran S, Krishnakumar K, **Saheb Rao S** (2008) Geophysical Investigation to Detect Subsurface Contamination in and around Tamilnadu Chromates and Chemicals, Ranipet, Tamilnadu at **Five Day Training Programme on Groundwater Contamination and Mass Transport Modelling of Hazardous Waste Dump Sites**. 8-12 September, 2008, pp 39-50.

3. Anandkumar K.S, Sankaran S, **Saheb Rao S** (2010) Design, Development, Pilot Testing and Documentation of Zero Flush Urinal Prototypes in NGRI. “**All India Seminar on ‘Cost Effective Waste Water Management’ Institution of Engineer (India), Kolkata**”, June 5-6, 2010.
4. **Saheb Rao S** (2010) attended “**National Workshop on ‘Advances in Exploration Geophysics for Young Researchers’**” during October 25-27, 2010 hosted by National Geophysical Research Institute (CSIR), Hyderabad.
5. Sankaran S, **Saheb Rao S**, Rangarajan R (2011) ‘Geophysical Techniques in EIA studies to Identify TSDF site for Industrial Waste Management at different Geo Environs. “**Rural Technology Mela**” during 2-5th February, 2011 organized by National Institute of Rural Technology (NIRD), Hyderabad (India).
6. **Sahebrao Sonkamble** (2012). One day National Workshop on ‘Common Effluent Treatment Plants in India, Theme: Issues, Challenges, Opportunities & Ways forward. Organized by Confederation of Indian Industry on 23rd November, 2012 at CII-Godrej GBC, Hyderabad (India).
7. **Sahebrao Sonkamble**, Pandith Madhnure and Shakeel Ahmed (2013) Assessment of coastal aquifer system for irrigation suitability – a study from Cuddalore, Southern India. ‘Workshop on Management of Coastal Aquifers’ during March 25th 2013 at Vishakhapatnam (India), TS-II, pp 22.
8. **Sahebrao Sonkamble** (2013). One Day Joint Workshop on ‘Water Quality, Utilization and Food Security under Musi River’ organized by Water and Land Management Training and Research Institute (WALAMTARI) and International Water Management Institute (IWMI) during August 14th, 2013 at Institute of Engineers, Hyderabad (India)
9. **Sahebrao Sonkamble** (2014). Regional workshop on “Aquifer mapping and management” during March 13-14, 2014 at APCOB Training Institute, Rajendranagar, Hyderabad, organized by CGWB (MoW) Southern Region Hyderabad.
10. Pratyusha A, **Sahebrao Sonkamble**, Shakeel Ahmed (2014). Assessing the efficiency and sustainability of wetlands for wastewater treatment – a study from Musi River, Hyderabad. Workshop on “Challenges and Perspectives in Conservation of Water in Urban Areas” on March 20th, 2014 at Institute of Public Enterprises, OU Campus, Hyderabad, organized by CGWB (MoW) Southern Region, Hyderabad. TS-I, pp. 13
11. **Sahebrao Sonkamble** (2014). Source speciation and hydrochemical zonation at coastal ‘Toxic Hotspot’ in Southern India. Poster presentation at 50th Research Council Meeting of CSIR-NGRI at Hyderabad during May 9th-10th, 2014.
12. Pratyusha A, **Sahebrao Sonkamble** (2014) Assessing the efficiency and sustainability of wetlands for wastewater treatment – A study from Musi River, Hyderabad. Poster presentation at 50th Research Council Meeting of CSIR-NGRI at Hyderabad during May 9th-10th, 2014.
13. **Sonkamble S** (2016) Methodology for Decision Support Tool for Sustainable Groundwater Management in Basaltic Aquifer. Presented at Training course on GIS applications for aquifer management at CSIR-NGRI Hyderabad during March 1-5, 2016
14. **Sonkamble S** (2016) Groundwater occurrence in Deccan Basalt: Its precise mapping through integrated geophysics. Presented at Training course on GIS applications for aquifer management at CSIR-NGRI Hyderabad during March 1-5, 2016
15. Sonkamble S, Ahmed S, Verma SK (2015) Results and outcome of the study and final reports of AQUIM. Presented at 5th National Level Coordination Committee, held at CGWB Jamnagar House, New Delhi on Oct 13th, 2015.
16. **Sonkamble S** (2015) Concept of GPR; Various methods of data acquisition, processing and interpretation. Presented at Training-cum-familiarization Workshop on Surface Geophysics for Groundwater organized by CSIR-NGRI at Hyderabad during Dec 14th- 19th, 2015
17. Ahmed S, Chandra S, Joy.C, Dar FA, Kumar L, Mondal NC, Muralidharan D, Nagaiah E, Ramadevi K, Rao KC, Rangarajan R, Sarah S, Somvanshi VK, **Sonkamble S**, et al. (2015) Bhujal manthan through advanced heliborne transient electromagnetic geophysical investigations. Presented at ‘Bhujal Manthan’ a national dialogue on Clean and Sustainable Groundwater organized by CGWB (MoWR, Govt. of India) at Kurukshetra University, Kurukshetra (Haryana), on August 21st, 2015

18. **Sonkamble S**, Wajihuddin Md, Somvanshi VK, Ahmed S (2015) Deciphering lineaments induced aquifer salinity from marine sources: a study from southern India. Presented at 'National Seminar on Climate Change and Coastal zone Management' organized by SDM College of Engg & Tech., Dharwad and Geological Society of India at SDM College Dharwad during Nov 27-28, 2015, pp.50.
19. **Sonkamble S**, Wajihuddin Md, Ahmed S (2016) Hydro-geophysical characterization of natural wetlands: Implications for enhanced wastewater treatment. Presented at 1st Triennial Congress of FIGA, 53rd Annual Convention of IGU & 34th Annual Convention of AHI on 'Geosciences for Sustainability' during Nov 8-10, 2016 organized by FIGA, IGU & ISM at Indian School of Mining Dhanabad, Jharkhand. Tech Session WRWP-4, pp. 64.
20. Prasad MD, Chandrasekhar V, Satishkumar V, Partho P, Vinod Ch, Warsi T, Surinaidu L, Nandan MJ, Somvanshi VK, Mondal NC, **Sonkamble S**, et al. (2016) Emergency mitigation of drinking water scarce by identification of deeper aquifers through geophysical surveys and followed with drilling in water scarcity villages of Latur district, Maharashtra. Presented at 1st Triennial Congress of FIGA, 53rd Annual Convention of IGU & 34th Annual Convention of AHI on 'Geosciences for Sustainability' during Nov 8-10, 2016 organized by FIGA, IGU & ISM at Indian School of Mining Dhanabad, Jharkhand. Tech Session-V, WRWP-2, pp. 56.
21. **Sonkamble S**, Choudhary J, Ahmed S, Verma SK (2016) 3D Mapping of Tectonic Pathways And Aquifer System In Flood Basalts Using AEM. Presented at 1st Triennial Congress of FIGA, 53rd Annual Convention of IGU & 34th Annual Convention of AHI on 'Geosciences for Sustainability' during Nov 8-10, 2016 organized by FIGA, IGU & ISM at Indian School of Mining Dhanabad, Jharkhand. Tech. Session-VII, SEG-4, pp. 17.
22. **Sonkamble S**, Mondal NC, Ahmed S (2016) Natural Treatment System (NTS) Models for Wastewater Treatment : Potential Interventions Under Smart Cities and Villages. Paper presented at National Workshop on "Role of Groundwater in Smart Cities and Villages" jointly organized by Manav Rachna International University (MRIU) & Indian National Committee of International Association of Hydrogeologists at MRIU, Faridabad (Haryana) on Dec 17th, 2016. TS-III, pp. 47.
23. **Sonkamble S**, Sahya A, Narsing Rao A, Mahesh J, Ahmed S (2018) Wastewater as a significant resource of hydrological cycle in the changing climate. Accepted for presentation at IGU 55th Annual Convention on Changing Water Cycle & Water Resources December 5-7, 2018 at Rabindranath Tagore University Bhopal Organized Jointly by IGU & RNTU at Bhopal during Dec 5-7, 2018. Reg. No. CWC00176, Abstract ID 897.
24. **Sonkamble S**, Nagaiah E, Chandra S (2023) Hydro-geophysical characterization of aquifer systems and MAR around Ossudu lake, Pondicherry. Paper presented at IGU Diamond Jubilee (60th) Annual Convention on Advances in Geosciences with special reference to coastal hazards jointly organized by IGU and Dept of Marine Geology and Geophysics, Cochin University of Science and Technology, Kochi (Kerala) during Nov 22-24, 2023. Paper presented on Nov 24th, 2023 session coastal processes and hazard S.No. 63.
25. Appalanaidu E, **Sonkamble S** (2023) Hydro-geochemical evolution characterizing the crystalline hard rocks aquifers of Nagavali River basin, southern India. Poster presented at IGU Diamond Jubilee (60th) Annual Convention on Advances in Geosciences with special reference to coastal hazards jointly organized by IGU and Dept of Marine Geology and Geophysics, Cochin University of Science and Technology, Kochi (Kerala) during Nov 22-24, 2023. Poster presented on Nov 23th, 2023 session Solid Earth Geosciences S.No. P93.
26. Appalanaidu E, **Sonkamble S** (2023) Dynamic aquifer system and their characterization through joint morphometric analysis and electrical resistivity scans, in Nagavali River basin, Southern India. Fifth Indian Groundwater Conference 2023 organized by Dept. of Civil Engineering, IIT Hyderabad during Dec 5-6, 2023. Technical Session (TS) - 1b, Hydro-geologic Characterization, ID No. 072.
27. Ajaykumar, V., **Sonkamble, S.**, & Chandra, S. (2025). Coupled hydrological modeling with SWAT-MODFLOW using heliborne data in the Ankasandra watershed, Karnataka, India. XIIth Scientific Assembly of the International Association of Hydrological Sciences (IAHS-2025), IIT Roorkee, India, Oct 5-10, 2025
28. Appalanaidu E., **Sonkamble, S.**, (2025) Evaluation of replenishable aquifers in crystalline hard rocks using a multi-disciplinary approach. FIGA 4th Triennial Congress on Geosciences for

Blue Economy - Potential of Indian Ocean along with 62nd annual convention of IGU and 42nd annual convention of AHI at Indian National Centre for Ocean Information Services (INCOIS) Hyderabad during November 6-8, 2025. Technical session-1: "Coastal processes" with Abstract ID: ABS-0130.

CHIEF GUEST / KEY NOTE SPEAKER / RESOURCE PERSON/ INVITED LECTURE

1. **Sahebrao Sonkamble** (2014) Geo-environmental approach for sustainable groundwater resources. **Chief Guest Address** on the occasion of "World Water Day" March 22nd, 2014 at Hyderabad Institute of Technology and Management (HITAM), Hyderabad.
2. **Sahebrao Sonkamble** (2018) **Key Note Speaker** at Nature based wastewater treatment systems. Invited lecture by Eco-Club of Vignana Bharathi Institute of Technology, Ghatkesar on March 9th, 2018.
3. **Sahebrao Sonkamble** (2019) **Guest of Honour** at Johnson Grammar School (SSC) Habsiguda on the occasion of Science Fair on Dec 29th, 2019. Addressed to High school students on 1) Understanding the Earth (Nature) and its phenomenon, 2) Importance of Groundwater, 3) Scientific motivation to the students. Also had been a Judge to select the best Science experiment by the students. I chose Modern Irrigation System to Agriculture farming, the best for 1st prize.
4. **Sonkamble S** (2019) Hydro-Geophysics Characterizing "The Groundwater Chemistry And Social Demands". **Chief Guest Address** at DST-SERB & DAE-BRNS Sponsored National Workshop on Advancement in Water Quality Monitoring and Sustainable Management for Human Health Care organized by Department of Civil Enggg. Sri Shakthi Institute of Engineering and Technology, Coimbatore – 641 062, Tamil Nadu on Jan 3rd, 2019 during Jan 3rd - 5th, 2019.
5. **Sonkamble S** (2019) Natural treatment system (NTS) models for wastewater Management: a study from Hyderabad, India. **Invited Lecture** at Training Programme on "Assessment of Contaminated Soil and Groundwater" Under CSIR-Integrated Skill Initiative Programme on Feb 19th, 2019 during February 13-26, 2019 conducted by & at CSIR-NGRI, Hyderabad, India
6. **Sonkamble S** (2019) Developing decision support tool (DST) for sustainable groundwater management. **Chief Guest Address** at Water stewardship and Water Management during February 28- March 15-16, 2019 at KVK, Jammikunta, Karimnagar dist., Telangana
7. **Sonkamble S** (2019) Pre PhD Course Work (Geophysics) lecture on **Elective/Specialization 2(A) Groundwater Geophysics, Unit-I** Types of groundwater problems encountered in exploration – Mutual relation between hydrogeological, structural and groundwater exploration, and Study of some important case histories in geophysical exploration for ground water in hard rock areas, alluvial, sedimentary terrains and coastal areas. Applications in groundwater management and solving environmental problems.
8. **Sonkamble S (2020)** Chief Guest at Rabindra High School Mudhole, Nirmal dist., (TS) on the occasion of Science Fair Experiments on Nation Science Day (Feb. 28, 2020) celebrations.
9. **Sonkamble S (2020)** Eminent Speaker for the one Week online Faculty Development Program (FDP) on 'Geosciences in Engineering' (GiE 20') jointly organized by Department of Civil Engineering, Government College of Engineering Karad and Walchand College of Engineering Sangli during June 9-13, 2020 through Cisco WebEx Platform. Title of Talk "Electrical Resistivity Methods for environmental studies" on June 9th, 2020
10. **Sonkamble S (2021)** Invited Talk on Guest Session on "Geo- technical applications resolving environmental issues" by Symbiosis Skills and Professional University, Pune on Jan 30th, 2021 through Google Meet platform
11. **Sonkamble S (2021)** Chief Guest for the 6th Annual Fest of Science Club "Virtual Science Expo 2021" organized by Digambarrao Bindu ACS College Bhokar Dist Nanded, Maharashtra during Feb 27-28, 2021. The Talk on "Earth Scanning for Environmental Solutions"
12. **Sonkamble S (2021)** External Expert for Panel discussion on "Water for a Sustainable Future" on the account of World Water Day on 22nd March 2021 organized by Symbiosis Skills and Professional University, Pune.
13. **Sonkamble S (2025)** Invited talk as an Eminent Expert on "Scientific temperament and Innovative thinking as a student" at The PM SHRI TGMS and JS Kuntala, Nirmal district, Telangana on April 17th, 2025

14. **Sonkamble S (2025)** Invited talk on “Natural Treatment Systems (NTS) and Soil Aquifer Treatment (SAT) as Effective Remedial Measures for Groundwater Pollution” at National Symposium on Porous Media Research, organized by the Department of Civil Engineering, Indian Institute of Technology Hyderabad (IITH), in association with the India Interpore Chapter on Aug 2nd, 2025
15. **Sonkamble S (2025)** Invited talk on Role of hydrogeology and geophysical investigations for groundwater resource management and prevention of pollution” at for the “Advanced Training Programme for Class-1 Officers of the Uttar Pradesh Pollution Control Board (UPPCB) on 5th December, 2025 at Administrative Staff College of India (ASCI), Hyderabad. The training program was organized by Environmental Surveillance Laboratory (ESL), Centre for Environment, UG & ID (CEUG&ID), Administrative Staff College of India (ASCI), Khairtabad, Hyderabad
16. **Sonkamble S (2026)** Invited Expert lecture on ‘Scientific temperament and motivation’ at the PM Shree Model School & Jr. College (Govt of Telangana), Kuntala, Nirmal dist during Annual gathering on Feb 20, 2026
17. **Sonkamble S (2026)** Invited Expert lecture on ‘Scientific temperament and motivation’ at the Rabindra High School, Mudhole, Nirmal dist, Telangana on Feb 21, 2026
18. **Sonkamble S (2026)** Invited Expert lecture on ‘Scientific temperament and motivation’ at the Kasturba Gandhi Girls School & Jr. College (Govt of Telangana), Narsapur, Nirmal dist on Feb 20, 2026

LANGUAGES KNOWN:

English, Hindi, Telugu and Marathi (All can read, write and speak), Tamil (can speak)

PROJECTS (R&D) HANDLED & TECHNICAL REPORTS:

COMPLETED PROJECTS				
S. No	Project no. & Tech Report No.	Title of the Project	Role	Funding Agency
1	SSP-469-28 (SS), NGRI-2008 Environ-628	Environmental Impact Assessment of the proposed TSDF site, SIPCOT, Perundurai.	Member	IWMA
2	SSP-479-28 (SS), NGRI-2009-GW- 689	Microlevel Groundwater Quality and Groundwater movement in, SIPCOT, Cuddalore.	Member	CSIA
3	SSP-488-28 (SS), NGRI-2008-GW - 651	Environmental Impact Assessment in and around Tamilnadu Chromates and Chemicals Ltd.and its downstream up to Palar River, Ranipet	Member	TNPCB
4	NWP-0046-28(SS), NGRI-2010-GW-725	Environmental Impact Assessment (EIA) in and around Tannery belt of Ambur and its downstream up to Palar River	Member	CSIR
5	Tech Rep No. NGRI-2009-GW-688	Ground Penetrating Radar (GPR) investigation at Head Works (TWAD), Mutharasanallur, Trichy 11-12, March, 2009	Member	TWAD
6	NWP0046-28 (SS), NGRI-2009-GW-697	Hydro geological, geophysical and hydro chemical evaluation around Samalkot area, East Godavari, Andhra Pradesh, India	Member	CSIR
7	NWP-0046-28 (DVR) NGRI-2012-GW-775	Ground Penetrating Radar study at coastal area of Ongole, Andhra Pradesh	Member	CSIR
8	NWP-0046-28 (SS)	Environmental Impact Assessment of Sirkazhi-Mannanpandal coastal area, Nagapattinam district, Tamilnadu,	Member	CSIR
9	MLP-6302-28 (SS)	Environmental Geophysics – Development of Methodology for protection & conservation of soil and groundwater in Dry land Environ	Member	NGRI & CRIDA
10	GAP-560-28 (SS)	Development of a Groundwater information System for Assessment and Management of Groundwater Resources in Palaghat, Wayanad and Alleppey Districts, Kerala	Member	EMAK
11	GAP-646-28 (SA) (SAPH PANI)	Enhancement of natural water systems and treatment methods for safe and sustainable water supply in India	Member (key role)	European Union
12	SSP-659-28 (SA), NGRI-2015-GW-900	Aquifer characterization using advance geophysical techniques in representative geological terrains of India. Synoptic Report on Pilot Aquifer mapping (AQUIM). Findings, Efficacy & Protocols	Member	World Bank

COMPLETED PROJECTS				
S. No	Project no. & Tech Report No.	Title of the Project	Role	Funding Agency
13	SSP-659-28 (SA), NGRI-2015-GW-893	Aquifer characterization using advance geophysical techniques in representative geological terrains of India-AQMAH, Nagpur, Maharashtra	Addl Area Party Chief	World Bank
14	GAP-731-28 (SA) / SSP-775-28(SA)	Development of Decision Support Tool (DST) for Sustainable Water Management in the Sugarcane Growing Regions in India	Co-PI	World Wide Fund- India
15	SSP-753-28(SA)	Geophysical electrical sounding interpretation and providing points of drilling for groundwater in Niger (Africa)	Co-PI	Super Geo Drillers
16	-	Hydro-Geophysical characterization and assessment of groundwater resources around the Osudu Lake, Pondicherry	PI	BRGM, France
17	GAP-839-28(SC) / NGRI-GW-2023-GW-1017	Aquifer mapping with focus on paleochannels in parts of Ganga Yamuna doab in Kaushambi-Kanpur stretch	Member	NMCG
18	SSP-810-28 (SC)	High resolution airborne geophysical mapping for the proposed railway line between Thalassery and Mysuru	Co-PI	KRCL
19	SSP-846-28(VMT/SC)	High resolution aquifer mapping and management in North-West arid areas of India. Following are the different study blocks	Member	MoWR, GoI
	Tech. Rep. No. NGRI-2022-GW-1015-A	High resolution aquifer mapping and management in North-West arid areas of India- Pokhran survey block.		
	Tech. Rep. No. NGRI-2022-GW-1015-B	High resolution aquifer mapping and management in North-West arid areas of India- Bilara survey block.		
	Tech. Rep. No. NGRI-2022-GW-1015-C	High resolution aquifer mapping and management in North-West arid areas of India- Pali Jalore survey block.		
	Tech. Rep. No. NGRI-2022-GW-1015-D	High resolution aquifer mapping and management in North-West arid areas of India- Rajkot survey block.		
	Tech. Rep. No. NGRI-2022-GW-1015-E	High resolution aquifer mapping and management in North-West arid areas of India- Srimadhopur survey block.		
	Tech. Rep. No. NGRI-2022-GW-1015-F	High resolution aquifer mapping and management in North-West arid areas of India- Kurukshetra survey block.		
20	Tech. Rep. No. NGRI-2022-GW-1015-G.	High resolution aquifer mapping and management In North-west arid areas of India- Churu Survey block.	Member	MoWR, GoI
	Tech. Rep. No. NGRI-2022-GW-1015-H	High resolution aquifer mapping and management in North-West arid areas of India- SriGanganagar survey block.		
	NGRI Tech. Rep. No. NGRI-2022-GW-1015-I	New Paleorivers Revealed by Heliborne Geophysical Surveys in Arid Regions of NW India: Phase-I.		
21	NGRI-2025-26-GW-1067	CSIR-NGRI Rain Gardens: An Urban Stormwater Harvesting Pilot R&D Facility for Managed Aquifer Recharge (MAR)	Member	CSIR-NGRI

PROJECTS (R&D) ONGOING:

ONGOING PROJECTS				
S. No	Project no. & Tech Report No.	Title of the Project/ Activity	Role	Funding Agency
1	FBR Project	Comprehending aquifer heterogeneities and hydrodynamics for sustainable groundwater management	Co-PI	CSIR (FBR Project)
3	MoU signed	High-resolution airborne geophysical surveys for geotechnical investigation for the Ajanta Rail Tunnel	Co-PI	Central Rail
4	MoU to be signed	High-resolution geophysical surveys for geotechnical investigation for the Manmad-Indore Rail Tunnel	Member	Central Rail
5	MoU signed	Smart Village program by CSIR	Member	CSIR
6	MoU signed	Managed Aquifer Recharge development for sustainable groundwater management in Ganga-Yamuna Alluvial plains of India	Member	NMCG



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