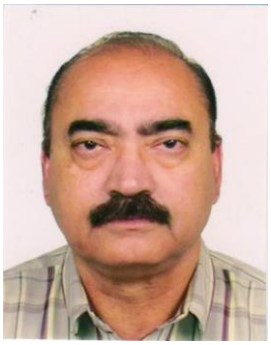

CURRICULUMVITAE

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2. **Present Position & Address:**

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3. **Father's Name:** Syed Sibte Mahmood (Late)

4. **Date and place of birth:** 15th July, 1953; Amroha, U.P., India

5. **Nationality:** Indian

6. **Academic Qualifications:**

M. Sc. Chemistry (Lucknow University, Lucknow, India; 1972-1974)
Ph. D. Geology (Osmania University, Hyderabad, India; 1989)

7. **Foreign Assignments:**

- Post Doctoral Fellow (1990-1991), Centre des Faibles Radioactivites (CNRS-CEA), Gif-sur-Yvette, France
- Visiting Professor, National Taiwan University,Taiwan, April 2006 to October 2006

8. Awards & Honours:

Recipient of **'National Geoscience Award for the year 2009'** in '**Geo-Environmental Studies'** from the Ministry of Mines and Geology, Govt. of India

Recipient of **'K.K. Menon Award for the year 2013'** for contributions in 'Sedimentary Geology' from the 'Geological Society of India'

Elected fellow of the **A.P. Academy of Sciences (APAS)**

Elected fellow of the **Telangana Academy of Sciences (TPAS)**

Member editorial board **Palaeo-3** (Elsevier Publications)

Member MoES Committee on Climate Change & Paleoclimate (2015-2017)

Regional coordinator of Past Global Changes (PAGES) working group on SISAL (Speleothem Stable Isotope Synthesis & Analysis)

Chairman and member of various selection and assessment committees of the Council of Scientific & Industrial Research between 2000 and 2015.

Coordinator of an UNESCO sponsored project (IGCP 481) between 2009 and 2012 on the evolution of Asian river systems

9. Research and teaching experience:

Forty-three years of research experience in Paleoclimate, Paleoceanography, Isotope Geology and Geochemistry.

Two years of teaching experience at JMI (a central university), New Delhi, India.

Established state-of-the-art laboratory facilities at CSIR-NGRI, Hyderabad including Stable Isotope Mass Spectrometers (Model - MAT 253 and Delta Plus with Kiel-IV carbonate device) and Atomic Absorption Spectrophotometers. Also worked on Thermal Ionization Mass Spectrometer (TIMS) and ICP-MS to determine radiogenic isotopes and trace elements in marine and terrestrial sediments, rocks, foraminifera etc. at CSIR-NGRI, Hyderabad, India.

Supervised six Ph.D. students.

10. Research publications: Eighty (80)

Published 80 research articles in various international and national peer reviewed journals including *Geophysical Research Letters (GRL), Earth System Science Data (ESSD), Palaeo-3, Journal of Geophysical Research (JGR), Quaternary International, Marine Geology, Quaternary, BOREAS, Geo-Marine Letters, Current Science, Journal of Geological Society of India, Arabian Journal of Geosciences, Geosciences Journal,*

Indian Journal of Applied Geochemistry, Precambrian Research, Journal of Earth Science & Climate Change, Indian Journal of Geo-marine Sciences etc..

Also presented more than 150 research papers at various national and international conferences and seminars.

LIST OF PUBLICATIONS:

1. Raza, W., **Ahmad, S.M.*,** Lone, M.A., Sarma, D.S., Babu, E.V.S.S.K. and Shen, C-C. (2020) Stalagmite based high resolution $\delta^{18}O$ record of Indian summer monsoon activity in Lesser Himalaya during the late Holocene. ***Journal of Earth Science and Climate Change, ISSN 2157-7617, v. 11, (1).***

2. Comas-Bru, *l.*., Rehfeld, K., Roesch, C., Mozhdeli, S.A., Harrison, S.P., Kamphat, A., **Ahmad, S.M.** and other members of SISAL project (2020) A comprehensive speleothem database with multiple age depth models. ***ESSD, doi.org/10.5194/2020-39.***

3. Kaotekwar, A.B., **Ahmad, S.M.**, Satyanarayanan, M. and Krishna, A.K. (2019) Geochemical investigations in bulk and clay size fractions from lower Krishna river sediments, southern India: Implications of elemental fractionation during weathering, transportation and deposition. ***Geosciences Journa***l, ***doi:10.1007/s12303-019-0002-2.***

4. Jalal, P., Pandey, J.B., **Ahmad, S.M.**, Dutt, S., Shukla, U.K. and Maddodi, B. (2019) Effect of Deccan lava flows on the sedimentological evolution of Gurmatkal intertrappeans Karnataka, southern India. ***Geological Journa***l, ***pp. 1-10, doi:10.1002/gj.3711.***

5. Comas-Bru, *l.*., Harrison, S.P., Werner, M., Rehfeld, K., Scroxton, N., Veiga-Pires, C. and **Ahmad, S.M.** and members of SISAL project (2019) Evaluating model outputs using integrated global speleothem records of climate change since the last glacial. ***Clim-past, 15, 1557-1579, 2019, doi.org/10.5194/cp-15-1557-2019.***

6. Raza, W., **Ahmad, S.M.,** Lone, M.A., Sarma, D.S., Babu, E.V.S.S.K. and Shen, C-C. (2020) Stalagmite based high resolution $\delta^{18}O$ record of Indian summer monsoon activity in Lesser Himalaya during the late Holocene. ***Journal of Earth Science and Climate Change (accepted).***

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8. Kaushal, N., Breitenbach, S.F.M., Lechleiter, F.A., Sinha, A., Tiwari, V.C., **Ahmad, S.M.,** Berkelhammer, M., Band, S, Yadava, M., Ramesh, R. and Henderson, G. (2018) The Indian Summer Monsoon from a Speleothem delta^{18}O Perspective – A Review. ***Quaternary 1,29; doi:10.3390/quat1030029.***

9. Kamphat, A., Comas-Bru, L., Mozhdehi, S.A., Deininger, M., Harrison, S.P., Baker, A., Boyd, M., Kaushal, N., **Ahmad, S.M.,** Arienzo, M., Brahim, Y.A., Bajo, P., Braun, K., Burstyn, Y., Chawchai, S., Duan, W., Hatvani, I.G., Hu, J., Kern, Z., Labuhn, I., Lachniet, M., Lechleiter, F.A., Lorrey, A., Perez-Mejias, C., Pickering, R., Scroxton, N. and other SISAL working group members (2018) The SISAL data base a global resource to document oxygen and carbon

isotope records from speleothems. ***Earth System Science Data (ESSD) doi.org/10.17864/1947-139***.

10. Raza, T., **Ahmad, S.M.,** Steinke, **S.,** Raza, W., Lone, M.A., Beja, S.K. and Suseela, G. (2017) Glacial to Holocene changes in sea surface temperature and seawater $\delta^{18}O$ in the northern Indian Ocean. ***Palaeogeography Palaeoclimatology Palaeoecology, v. 485, pp.697-705, doi 10.1016/j.palaeo. 2017.07.026.***

11. Raza, W., **Ahmad, S.M.,** Lone, M.A., Shen, C-C., Sarma, D.S., and Kumar, A. (2017) Indian summer monsoon variability in southern India during the last deglaciation: Evidence from a high resolution stalagmite $\delta^{18}O$ record. ***Palaeogeography Palaeoclimatology Palaeoecology, v. 485, pp.476-485, doi 10.1016/j.palaeo.2017.07.003.***

12. Banerjee, B., **Ahmad, S.M.,** Raza, W. and Raza, T. (2017) Paleoceanographic changes in the Northeast Indian Ocean during middle Miocene inferred from carbon and oxygen isotopes of foraminiferal fossil shells. ***Palaeogeography Palaeoclimatology Palaeoecology, v.66, pp. 166-163, doi 10.1016/j.palaeo.2016.11.021.***

13. Jumaila,, C.P.U., Pattan, J.N., **Ahmad, S.M.,** Parthiban, G., Khedekar, V.D.,Padmakumari, V.M. and Milindraj, P. (2017) Morphology and chemical composition of ash layer of about 8 Ma old from ODP-758 site, Bay of Bengal. ***Indian Journal of Geo-Marine Sciences, v. 46 (05), pp. 871-876.***

14. Joshi, L., Kotlia, B.S., **Ahmad, S.M**., Wu, C.-C., Jaishri, S., Raza, W., Singh, A.K., Shen, C.-C., Long, T and Sharma, A.K. (2017) Reconstruction of Indian monsoon precipitation variability between 4.0 to 1.6 ka BP using speleothem $\delta^{18}O$ records from the Central Lesser Himalaya, India. ***Arabian Journal of Geosciences, doi:10.1007/s12517-017-3141-7.***

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17. Kotlia, B.S., Singh, A.K., Raza, W., **Ahmad, S.M.**, Joshi, L.M., Sirohi, M. Sharma, A.K. and Sagar, N. (2016) Stalagmite inferred high resolution climatic changes through Pleistocene-Holocene transition in northwest Indian Himalaya. ***Journal of Earth Science & Climate Change, doi.org/10.4172/2157-7617.1000338.***

18. Sagar, N., Steffen H., Pfeiffer, M. , **Ahmad, S.M.**, Dullo, W-C, Garbe-Schönberg, D. (2016) High-resolution Sr/Ca ratios in a Porites lutea coral from Lakshadweep Archipelago, southeast Arabian Sea: An example from a region experiencing steady rise in the reef temperature. ***Journal of Geophysical Research (JGR) - Oceans, doi:10.1002/2015JCO10821***.

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28. Raza, T. and **Ahmad, S.M.** (2013) Surface and deep water variations in the northeast Indian Ocean during the 34-6 ka BP: evidence from carbon and oxygen isotopes of fossil foraminifera. ***Quaternary International, v. 298, 37-44, doi:10.1016/j.quaint.2012.05.005***.

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31. **Ahmad, S.M.,** Zheng, H., Raza, W., Zhou, B., Lone, M.A., Raza, T. and Suseela, G. (2012) Glacial to Holocene changes in the surface and deep waters of the northeast Indian Ocean. ***Marine Geology, v. 329-331, pp. 16-23, doi:10.1016/j.margeo. 2012.10.002***.

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34. Achyuthan, H., Shankar, N., Braida, M. and **Ahmad, S.M.** (2012) Geochemistry of Calcretes (Calcic Palaeosols and Hardpan), Coimbatore, Southern India: Formation and Paleoenvironment. ***Quaternary International, doi:10.1016/j.quaint. 2012.01.037.***

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39. **Ahmad, S.M.,** Anil Babu, **G.,** Padmakumari, V.M. and Waseem Raza (2008) Surface and deep water changes in the northeast Indian Ocean during the last 60 ka inferred from carbon and oxygen isotopes of planktonic and benthic foraminifera. ***Palaeogeography Palaeoclimatology Palaeoecology, v. 262, pp. 182-188, doi: 10.1016/j.palaeo.2008.03.007.***

40. Purnachandra Rao, V., Kessarkar, P.M., Patil, S.K. and **Ahmad, S.M.** (2008) Rock magnetic and geochemical record in a sediment core from the eastern Arabian Sea: Diagenetic and environmental implications during the late Quaternary. ***Palaeogeography Palaeoclimatology Palaeoecology v. 270, pp. 46-52, doi:10.1016/j.palaeo.2008.08.011.***

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1. **Title:** Geochemical studies for hydrocarbon exploration of surface sediments in the northern part of Pranahitha – Godavari basin, Andhra Pradesh, India
   Name of student: B. Anu Radha
   University and year of Award: Andhra University, 2015

2. **Title:** Reconstruction of Indian summer monsoon variability since the last deglaciation using oxygen isotopes from Indian stalagmites
   Name of student: Mahjoor Ahmed Lone
   University and year of award: Osmania University, 2015

3. **Title:** Reconstruction of past sea surface temperature around Lakshadweep islands using oxygen isotopes from scleractinian corals
   Name of student: S. Sounder Rajan
   University and year of Award: Osmania University, 2013

4. **Title:** Glacial to Holocene variations in surface and deep water masses of the North Indian Ocean using isotopic and trace elemental proxies from marine sediments
   Name of student: Tabish Raza (SRF-CSIR)
   University and year of Award: Osmania University, 2016

5. **Title:** Paleoceanographic changes in the southern Bay of Bengal from Middle to Late Miocene period using isotopic and trace elemental proxies from Ocean Drilling Program (ODP) Site 758
   Name of student: Barnita Banerjee
   University and year of Award: Ph.D. awarded by Academy of CSIR in May 2018

6. Isotopic and geochemical studies of marine sediments from Ocean Drilling Program site 758 in the northeastern Indian Ocean: implications for climatic and tectonic processes in Himalayan and Tibetan region during Miocene 758
   Name of student: V.M. Padmakumari
   University and year of Award: Ph.D. awarded by J.N.T.U. Hyderabad in Dec. 2008

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