CURRICULUM VITAE

1) **Name of Staff:** Dr. Abhishek Lodh
2) **Employer:** Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden
3) **Nationality:** Indian
4) **Education:**

S. No.	School, college and/or university attended	Degree/certificate or other specialized education obtained
1.	Sri Venkateswara College, University of Delhi	Bachelor of Science (B.Sc.)
2.	IIT Roorkee	Master of Science (Physics)
3.	IIT Delhi	Ph.D. (Atmospheric Sciences)

5) **Professional Certification or Membership of Professional Associations:**
   - Life Member of India Meteorological Society (Noida Chapter)
   - NASSCOM certified Associate Analytics program in Big Data Analytics (R, Python, SQL, Tableau and Machine Learning) conforming to National Skill Qualification Framework Level – 7.
   - REDHAT Linux certified System Administrator (RHCSA) with A-Grade from REDHAT certified Network Nuts, New Delhi, India.

Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned

(a) Name of assignment or project: Development of climate vulnerability index over India
Year: 2021-22
Location: RMSI, Noida, India
Main project features:
- Extreme Hazard events assessment

Positions held: Technical Specialist
Activities performed:
- Geospatial modelling to achieve the exposure matrices
- Identify the frequency of extreme hazard events frequency over India during last 50 years
- Assessment of exposure, sensitivity and adaptive capacity at a climate scale

(b) Name of peer-reviewed paper:

- **Lodh A. and S. Haldar (2024)** "'Investigating the impact of tropical deforestation on Indian monsoon hydro-climate: a novel study using a regional climate model", **Natural Hazards, Springer**
- A. Routray, **Abhishek Lodh** (2023) "Influence of ASCAT Soil Moisture on Prediction of Track and Intensity of Landfall Tropical Cyclones", **International Journal of Remote Sensing, Taylor and Francis.**
- **Lodh A., (2022)** "Improving the prediction of monsoon depressions by assimilating ASCAT soil moisture in NCUM-R modeling system"", **Atmospheric Research, Elsevier.**
- **Lodh A., (2021)** "Simulating the impact of extended desertification on Indian hydro climate using ICTP-RegCM4.4.5.10 model", **Journal of Hydrology, Elsevier.**
- A. Routray, Devajyoti Dutta, **Abhishek Lodh**, John P. George **(2021)** "Impact of the Assimilation of DWR-derived Precipitation Rates through Latent Heat Nudging on Simulation of Rainfall Events over Indian Region using NCUM-R", **Journal of Hydrology, Elsevier**.
- **Lodh A., (2020)** "Reassessment of land–atmosphere interactions over India during summer monsoon using state-of-the-art regional climate models" **Theor. Appl. Climatol., Springer**
- A. Routray, **Abhishek Lodh**, Devajyoti Dutta, John P. George, **(2020)** "Study of an Extremely Severe Cyclonic Storm "Fani" over Bay of Bengal using regional NCUM modeling system: A case study", **Journal of Hydrology, Elsevier**.

Abhishek Lodh **Date: 25th January'24**