

**Expression of Interest  
On  
India-Spain Joint Call For R&D&I Projects 2024  
Under  
INDIA – SPAIN PROGRAMME OF COOPERATION ON INDUSTRIAL RESEARCH AND DEVELOPMENT**

1. Company Name: [India Meteorological Department \(IMD\), Ministry of earth sciences \(MoES\)](#)
2. Company Profile: [Weather Forecasting](#)
3. Country (India/Spain): [India](#)
4. Sector and sub sectors: [Early warning system, Thunderstorm detection , Natural hazards detection, Environmental monitoring, Urban meteorological/Geo-spatial services](#)
5. Year Established: [15 January 1875](#)
6. Contact Information: [9868471588/7898839497](#)
7. First Name: [Pratiksha](#)
8. Last Name: [Dubey](#)
9. Email Id: [pratikshadubey2207@gmail.com](mailto:pratikshadubey2207@gmail.com)
10. Phone Number: [7898839497](#)
11. Website: <https://mausam.imd.gov.in/>
12. Proposed Area of Application: [Development of AI - ML models for smart cities](#)
13. Proposed Project Summary: [India, as a developing country, is on the verge of witnessing the emergence of numerous developed cities beyond its current metropolitan hubs - Delhi, Mumbai, Ahmedabad, and Hyderabad. As urbanization accelerates, India is at a crucial juncture in planning smart cities beyond its metropolitan hubs. Climate change, pollution, and socioeconomic disparities pose significant challenges to urban sustainability. This project aims to develop AI - ML models for real-time monitoring, predictive analytic, and decision support to enhance urban resilience against environmental challenges. To address this challenge, we propose the development of an AI - ML model that analyzes the relationship between LULC AI-Driven Sustainable Urban Development, incorporating its role in land-use optimization, green infrastructure integration, and predictive modeling for sustainable expansion. The project will be implemented in multiple phases to ensure a comprehensive understanding of the relationship between land use and land cover \(LULC\) changes and socioeconomic factors affecting urban sustainability. To leverage AI - ML driven smart city solutions that enhance urban sustainability, mitigate climate risks, and optimize resource utilization for weather-ready, climate-resilient smart cities in India.](#)
14. Main characteristics and specific technological expertise of potential partner you are looking for:  
[Automation for early warning hazardous system. Utilization of AI/ML techniques and climate change related issues.](#)

15. Are you interested to pitch your company & project at our upcoming India – Spain meets?

[Yes, we can look into.](#)

Match Making Event 1: Online/Off-line Mode

Match Making Event 2: Online/Off-line Mode

The information collected in the interest form will only be used for the match-making activities to India-Spain Joint Call For R&D&I Projects 2024(DST-TDB – CDTI CALL FOR PROPOSALS UNDER THE INDIA – SPAIN PROGRAMME OF COOPERATION ON INDUSTRIAL RESEARCH AND DEVELOPMENT)

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