

VACANCY ANNOUNCEMENT

Reference #	005/01/2025/IDA/SoilMatters/New Delhi
Project	Soil Matters
Position	ICT and Digitalisation Advisor
Band	4
Location	New Delhi
<p>To apply click on the link: https://www.giz-jobs.com/india/</p> <p>Documents to be submitted:</p> <ul style="list-style-type: none"> • CV and a statement of suitability for this position • A maximum of 2 pages note on one of the topics given below: <ul style="list-style-type: none"> ➤ What could be potential digital solutions (use of remote sensing and AI) for monitoring sustainable soils? <p>Or</p> <ul style="list-style-type: none"> ➤ What do you think are major challenges to develop and implement the digital monitoring solutions in agriculture sector? <p>Last Date of Application: 30th January 2025</p>	

A. About GIZ India

For details, click on: <https://www.giz.de/en/worldwide/368.html>

B. Project Background

A new global programme “Soil Matters” is to be commissioned in India and at least four African partner countries, starting in 2025. Soil Matters is part of BMZ’s special initiative “Transformation of agricultural and food systems” and aims to strengthen the dissemination of innovations for soil health and agroecology at national, regional and global level. The German Federal Ministry for Economic Cooperation and Development (BMZ) proposed to continue to support to the Government of India’s agenda of improving soil health and agroecology. The “Soil Matters” country measure in India will be implemented by GIZ from January 2025 until December 2027. It also aligns with ongoing initiatives of Government of India such as the National Mission on Natural Farming (NMNF), Pramparagat Krishi Vikas Yojna (PKVY), Galvanising Organic Bio-Agro Resources (GOBARdhan) etc. and with initiatives of various state governments.

To support this transformative approach three outputs are proposed under “Soil Matters”:

- Scalability of sustainable land management practices and business models for bioresources to enhance soil health through supporting scaling up of bioresources models, capacity development for implementation of models and promotion of bioresources in cooperation with Indian partners at national and state level.
- The improvement of framework conditions to incentivize, prioritize and promote measures on soil health through national level technical consultative group and establishing remote sensing-based soil monitoring and diagnostic system at national level.
- The South-South knowledge exchange in order to contribute to national and global processes and policies on soil health through knowledge and technical exchange, knowledge co-creation and Triangular cooperation.

The approaches proposed under “Soil Matters” offer a cross-cutting perspective on the societal transformation through transitioning from linear economy (e.g. high input - high output model of inorganic fertilizer use) towards circularity approaches for long-term sustainability in agriculture sector through agroecological focus. With many African nations now embracing industrial agriculture which Indian system has already experienced over the last five decades, this

transformative initiative seeks to strengthen sustainable and agroecological responses in India, as well as reach out to African countries through south-south exchange mechanisms for knowledge and capacity enhancement. The project is anchored with the Climate, Environment and NRM portfolio of GIZ.

C. Responsibilities

- In close collaboration with partners and project team, plan, coordinate and implement measures to promote the inclusive, ethical and sustainable digital solutions (use of remote Sensing and AI) monitoring and decision support for sustainable soil management in India.
- Strengthen and support capacity development of national stakeholders like Ministries, NABARD, private companies, universities and social enterprises and community institutions to implement and use the sustainable soil management decision-support and monitoring solutions.
- Setting up and steering innovative technical and policy approaches to support the creation
- of open RS and AI based solutions in line with the sustainable development.
- goals, and needs of partners regarding sustainable soil management.
- Coordinating with experts and organizing workshops with various stakeholders, e.g. on developing capacity development strategies, policy frameworks, scaling strategies and others.
- Contribute to Innovation and knowledge management within GIZ.
- Work and collaborate with public partners (Ministry of Agriculture and Farmers Welfare, NABARD, SLUSI and others) and private sector experts to design digital scalable solutions for soil management, while leveraging and integrating various existing data sets.
- Ensure compliance of digital solutions to GDPR and National norms in India.
- Manage related partnership and contracts.

D. Core Scope of Tasks

The ICT and Digitalization Advisor will be responsible for developing and implementing digital solutions (integrating remote sensing and AI) in partnership with diverse stakeholders and hence ensure quality of information and data for decision processes

1. Designing, developing and piloting the remote sensing and AI based solutions for decision support tool for sustainable soil management

- Support in developing algorithm and processes for using remote sensing data from various platforms.
- Integrate remote sensing data with other geospatial datasets.
- Collaborate with cross-functional teams to provide geospatial insights.
- Prepare technical reports and presentations for stakeholders.
- Stay updated with the latest advancements in remote sensing technologies.
- Conduct fieldwork to validate remote sensing data.
- Provide training and support to partners and users on remote sensing tools and techniques.
- Ensure data quality and accuracy in all remote sensing project/s.
- Develop and maintain a database of remote sensing data.
- Participate in project planning and management activities.
- Assist in the preparation of grant proposals and funding applications.
- Communicate complex technical information to non-technical audiences.

2. Partnership management

- Independently establish, coordinate manage partnerships with relevant institutions (national and international) for scaling of project learnings.
- Conduct regular follow-ups, strategic and operational meetings and monitoring of jointly agreed plan of action.

- Explore potential partners, interests and opportunities for project to effectively scale the project approaches and soil health in India.
- Along with project team, jointly update the main implementation partners like NABARD (regional office and headquarters), MAVIM, SRLMs, private sector and GIZ head office etc.

3. Networking and advocacy initiatives

- Coordinate with knowledge managers within the project team and project steering unit to ensure alignment and need for relevant evidence.
- Coordinate and organize national and international knowledge exchanges with partners
- Work with knowledge manager and communication support to develop scaling instruments for partners.
- Contribute to various communication products and needs of the project, support in establishing exchange formats.

4. Knowledge Management

- Ensures knowledge transfer to project/programme information.
- Develops ready-to-use strategies and technical concepts, including guidelines, manuals and procedures.
- Prepares reports and presentation documents.
- Prepares appropriate input for various project/programme reports including annual reports and contributes to the other reports required by the programme manager and GIZ Head Office.
- Assists with research activities and studies on political issues which benefit joint programmes.

Other duties/additional tasks, if any:

- Support organizing of GIZ internal and external in-person and virtual events, conferences, seminars, etc., including documentation support.
- Support in other coordination and project management tasks as and when required.
- Perform other duties and tasks at the request of the reporting manager.

E. Required Qualifications, Experience and Competencies

- Minimum requirement M.Tech / MSc / MA in international relations, remote sensing and GIS, climate studies, political science, digital transformation, computer science, geoinformatics, or other studies related to sustainable human development with a focus on digital topics, or other fields in an area related to the project objectives.
- 7 years of proven experience in remote sensing, AI and Machine Learning and related field.
- Proficiency in remote sensing software such as ENVI, ERDAS IMAGINE, or similar.
- Experience with GIS software such as ArcGIS or QGIS.
- Knowledge of programming languages such as Python, R, or MATLAB.
- Strong analytical skills and the ability to present technical themes to different audiences in an understandable manner.
- Very good knowledge in the use of information (MS Office) and communication software as well as experience in preparing factual reports and analyses.
- Ability to collaborate effectively with team members from diverse backgrounds.
- Gender and diversity sensitive.
- Communication and networking skills to work with diverse partners.
- Business working skills in English and Hindi.
- Competencies to support the project in mainstreaming the initiatives of the project with state governments and at national and global level are desirable.

F. Location: New Delhi

G. Duration of the contract: Until 30th June 2026

Application without GIZ application form will not be considered

- Only shortlisted candidates will be contacted.
- GIZ supports Work-Life Balance.
- GIZ promotes Gender Diversity – Applications from women professionals are encouraged.
- Please note that those individuals who have completed a consultancy assignment with GIZ in less than 6 months prior to the intended start date for this position will not be shortlisted due to organisational policy.

Disclaimer: As per GIZ's data confidentiality policy, candidate's application is stored in our database for six months and is deleted thereafter.