

# Terms of reference (ToR) for developing operational plan for Riverine Landscape Restoration in Sabarkantha under RECAP4NDC project

CONFIDENTIAL

|                                                                                                                                                                         |                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Terms of reference (ToR) for developing operational plan and pilot scale implementation of Riverine Landscape Restoration in Sabarkantha under RECAP4NDC project</b> | <b>Project number/<br/>cost centre:</b><br><br>G-011987-003 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|

|    |                                                                                                                                          |                                     |
|----|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 0. | List of abbreviations .....                                                                                                              | 2                                   |
| 1. | Context.....                                                                                                                             | 3                                   |
| 2. | Tasks to be performed by the contractor .....                                                                                            | 4                                   |
| 3. | Concept.....                                                                                                                             | 8                                   |
|    | Technical-methodological concept .....                                                                                                   | 8                                   |
|    | Project management of the contractor (1.6) .....                                                                                         | 9                                   |
|    | Eligibility criteria for the consulting agency .....                                                                                     | 9                                   |
| 4. | Personnel concept.....                                                                                                                   | 10                                  |
|    | Team leader (2.1 – Technical Assessment Grid) .....                                                                                      | <b>Error! Bookmark not defined.</b> |
|    | Key expert 1 – Landscape Restoration Expert (2.2 – Technical Assessment Grid).....                                                       | 10                                  |
|    | Key expert 2 – Hydrology Expert (2.3 – Technical Assessment Grid) <b>Error! Bookmark not defined.</b>                                    |                                     |
|    | Key expert 3 - Social science Expert (2.4 - Technical Assessment Grid)                                                                   |                                     |
|    | Pool of Experts 1 – Remotesensing GIS Expert (2.6-Technical Assessment Grid <b>Error! Bookmark not defined.</b> bookmark://_Toc196126386 |                                     |
| 5. | Costing requirements .....                                                                                                               | 152                                 |
|    | Assignment of personnel and travel expenses .....                                                                                        | 153                                 |
|    | Sustainability aspects for travel .....                                                                                                  | 153                                 |
| 6. | Inputs of GIZ or other actors.....                                                                                                       | 164                                 |
| 7. | Requirements on the format of the tender .....                                                                                           | 164                                 |

## 0. List of abbreviations

|           |                                                                                      |
|-----------|--------------------------------------------------------------------------------------|
| AVB       | General Terms and Conditions of Contract (AVB) for supplying services and work 2022. |
| BOQ       | Bill of Quantities                                                                   |
| CP        | Consortium Partner                                                                   |
| CSR       | Corporate Social Responsibility                                                      |
| DEM       | Digital Elevation Model                                                              |
| DTM       | Digital Terrain Model                                                                |
| ES        | Ecosystem Services                                                                   |
| FLR       | Forest Landscape Restoration                                                         |
| LiDAR     | Light Detection and Ranging                                                          |
| MoEFCC    | Ministry of Environment, Forest, and Climate Change                                  |
| NCR       | National Capital Region                                                              |
| NbS       | Nature based solution                                                                |
| SOP       | Standard Operating Procedure                                                         |
| ToRs      | Terms of reference                                                                   |
| TAG       | Technical Assessment Grid                                                            |
| TOF       | Tree Outside Forests                                                                 |
| RECAP4NDC | Restore, Conserve and Protect Forest and Tree Cover for NDC Implementation in India  |
| UT        | Union Territory                                                                      |

## 1. Context

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), GmbH - India is implementing a six-year project with the title “Restore, Conserve and Protect Forest and Tree Cover for NDC Implementation in India (RECAP4NDC)” under the Indo-German bilateral cooperation. The Ministry of Environment, Forest, and Climate Change (MoEFCC), Government of India is the Indian political partner. The project will be implemented by a 6-member consortium (GIZ - overall coordination), International Union for the Conservation of Nature (IUCN) India office, Forest Survey of India (FSI), The Energy and Resources Institute (TERI), Indian Council for Forestry Research and Education (ICFRE) and the International Centre for Integrated Mountain Development (ICIMOD). The project’s intended impact is to support India achieve its targets on restoring degraded forests and landscapes inside and outside forests as defined in the National Forest Policy and the NDC thereby improving livelihoods of forest dependent communities and farmers. The project is in line with the principles of the Bonn Challenge and adopt the Forest Landscape Restoration (FLR) approach. It aims to strengthen the resilience of landscapes and keep future management options open.

### Project outputs

The project outputs are as follows. Each Output is led by one consortium partner with active contributions from other partners.

**Output I** - FLR model implementation: Model approaches for forest landscape restoration including sustainable forest management, sustainable management of trees and vegetation outside forests and agroforestry, are implemented in selected states in cooperation with stakeholders from public service, agriculture, private sector, and advisory services.

**Output II** - Monitoring, evaluation and reporting: Integrated systems for Monitoring, Evaluation and Reporting (MER) of ecological and socio-economic benefits of FLR are used.

**Output III** - Financing FLR: Models and tools for financing FLR from private, public and international sources are applied.

**Output IV** - Policy and planning: Policies and guidelines for forest landscape restoration are anchored in existing policy and planning processes.

**Output V** - Capacities, knowledge and communication: Human capacities, knowledge and communication mechanisms for FLR have been transferred to and communicated among involved stakeholder groups.

Under the RECAP4NDC project four states viz. Delhi NCR, Gujarat, Maharashtra and Uttarakhand have been selected for cooperation.

### Intervention landscapes of Gujarat:

**Gujarat** comprises several habitats and agro-climatic zones, such as mountain ranges of Aravali, Vindhya, Satpuda and Sahyadri and comprises grasslands, mangroves, and mudflats. It exposes specific challenges such as coastal degradation and pressures by grazing activities in grasslands, requiring specific approaches for landscape restoration and sustainable management. Under the present project for application of FLR concepts, there are four model sites identified in Gujarat based on identified restoration needs. Out of four model sites in Gujarat, two model sites are identified in Bhavnagar, which include mangrove model site in coastal villages of Talaja round in Mahuva forest range and grassland model site in Jesar forest

range in Bhavnagar Division. Whereas two model sites are in Aravali landscape including one in Khedbrahma and Poshina forest ranges in Sabarkantha Division, and one in Ambaji north forest range in Banaskantha Division. These model site includes total degraded area of 40,302 hectares. The selected model sites represent high-priority areas for restoration, and their selection has been made with careful consideration of both ecological and socio-economic factors to ensure the success of FLR interventions.

### Project Terminologies

|                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Forest Restoration approach</b>     | <b>Landscape (FLR)</b> | A holistic and integrated approach that aims to restore degraded forest landscapes to their original state and regain ecological functionality. For instance, agroforestry and assisted natural regeneration (ANR) are among the common FLR approaches.                                                                                                                                             |
| <b>FLR measure</b>                     |                        | An FLR measure refers to specific actions taken to achieve the goal of forest landscape restoration. For instance, within the ANR FLR approach, removing disturbances (say through removal of invasive species, prevention of fire, etc.) are specific FLR measures.                                                                                                                                |
| <b>Detailed Project Report (DPR)</b>   |                        | It is a comprehensive outline of all the steps and resources that a project needs. It is essentially a blueprint of the project plan.                                                                                                                                                                                                                                                               |
| <b>Operational/Implementation plan</b> |                        | It is a detail-oriented plan that clearly defines the goals, objectives, activities to be undertaken, and how to achieve them.                                                                                                                                                                                                                                                                      |
| <b>Model site</b>                      |                        | These are potential landscapes where restoration work can be taken up. They are identified from the long list of landscapes through application of an evaluation matrix. The model sites would cover at least 150,000 ha in total (area comprising all model sites from all the project implementing states) with benefits flowing to much larger area. For each model site a DPR will be prepared. |
| <b>Pilot site</b>                      |                        | These are the sites where restoration work will be undertaken. They will be smaller sub-units identified from some of the selected model sites. For each pilot site an operational/implementation plan will be developed. Pilot site in this case would be of around 100 hectares.                                                                                                                  |

The following Terms of References (TOR) focus on development of operational plan and pilot scale implementation for Riverine Landscape Restoration in Sabarkantha as part of project's collaboration with the Department of Forest, Government of Gujarat. The Sabarkantha model site of the RECAP4NDC project in Gujarat comprises 12 km long patch of Sabarmati River and a portion of corresponding watershed. The development of this micro plan or operational plan for Sabarmati River will help in developing a model for riverine landscape restoration in Gujarat.

The assignment has following main objectives:

- a. To assess and analyse the drivers, extent, and intensity of degradation within the selected riverine landscape and prepare a detailed operational plan for riverine landscape restoration, including site-specific soil and moisture conservation (SMC) measures, biological interventions, and other restoration activities within the broader framework of Forest Landscape Restoration (FLR). To prepare technical designs, engineering solutions, implementation methodologies, cost estimates, and a detailed financial proposal for riverine landscape restoration.
- b. To implement pilot-scale, community-driven riverine restoration through convergence of existing Government schemes, including effective community engagement and participation in landscape restoration.
- c. To review existing riverine landscape restoration models and approaches of the Gujarat Forest Department, identify opportunities for improvement and value addition, and, in consultation with the stakeholders, recommend modifications or develop new/innovative models for riverine landscape restoration.

## **2. Tasks to be performed by the contractor**

The assignment will be carried out to facilitate output 1 of the project, which focuses on model approaches for Forest Landscape Restoration (FLR) implementation in the project areas. The assignment will, from time-to-time, require coordination with other consortium partners of the project.

The consultant is responsible for providing the following services:

### **Work Package (WP) 1: Development of Micro Plan / Operational Plan for Sabarmati Riverine Landscape Restoration**

The consultant is required to develop micro plan/operational plan for the approx. 12 km long patch of Sabarmati River in the Sabarkantha Model site of RECAP4NDC project in Gujarat. The micro plan should be developed in consultation with the local offices of the Forest Department, other line Departments, GIZ India team and the consortium members (as and when needed), followed by detailed discussions with the Gujarat Forest Department.

The WP consists of, but is not limited to, the following activities:

- Use of LiDAR shall be applied in deriving Digital Elevation Models (DEMs) and Digital Terrain Models (DTMs) for identification of degradation severity and prioritization of restoration areas. Delineation and mapping of the selected riverine landscape and restoration units using GIS and remote sensing tools.
- Preparation of micro plan for the selected patch of Sabarmati River including suggesting measures for riverbank erosion, sedimentation, grazing pressure, encroachment, pollution points, unsustainable resource extraction, and invasive species impact etc.

- Identify solutions and detailed strategies for addressing degradation hotspots, erosion-prone areas, invasive species infestation, habitat fragmentation, and other ecological challenges.
- Development of micro-SMC measures including its site-specific designs, estimates and implementation plan. Preparation of engineering drawings, specifications, quantities, and cost estimates.
- Convergence plan with existing government schemes of forest and other departmental programmes.
- Understand the dynamics of the watershed of the Aravali mountain range and streams of Sabarmati River in the model site.

### **Financial Planning and Investment Framework**

- Detailed cost estimation for all interventions.
- Preparation of budgetary requirements and investment plans.
- Identification of potential funding sources and convergence opportunities.
- Assessment of ecosystem services and ecological functions of the riverine landscape.

### **Stakeholder engagement and participatory approach**

- Engaging key stakeholders including local communities, Panchayati Raj Institutions, Forest Department, line departments, CSR, NGOs, and academic institutions.
- Conducting village-level consultations, focus group discussions, and stakeholder workshops for community mobilisation.
- Development of a participatory restoration framework ensuring community ownership and long-term sustainability.

### **Work Package (WP) 2: Implementation of pilot scale community based riverine landscape restoration.**

Based on the plan developed under the WP-1, the consultant is required to implement a pilot scale riverine restoration through convergence of various government schemes and through participatory methods including community engagement.

The WP consists of, but is not limited to, the following activities:

- Work jointly with the State Forest Department and other line Departments such as Water Resources, Panchayat, Tribal Development, Agriculture for implementation of the restoration activities.
- Tap convergence opportunities to finance the FLR activities for riverine landscape restoration in the selected patch.

### **Community livelihood integration with riverine landscape restoration**

- Implementation of community-based restoration activities.

- Integration of sustainable livelihood activities linked to restoration outcomes.
- Capacity-building of community institutions and local stakeholders.
- Preparation of awareness and behavioural change communication strategy.

#### **Restoration implementation and supporting activities**

- Technical support during implementation of selected restoration interventions.
- Capacity building of field staff and community institutions.
- Field supervision and quality assurance of restoration works.
- Documentation of lessons learned and recommendations for scaling up.

#### **Work Package (WP) 3: Development of standard models for Riverine Landscape Restoration Models for Gujarat Forest Department**

The consultant is expected to study existing forest restoration, plantation, SMC work models and develop new models for the riverine landscape restoration models for Gujarat.

The WP consists of, but is not limited to, the following activities:

- Review of national and international best practices in riverine restoration.
- Evaluation of existing restoration models within Gujarat and other states.
- Development of site-specific restoration models for different ecological conditions.
- Preparation and documentation of technical guidelines and standard operating procedures for implementation.
- Identify opportunities to apply Nature-based Solutions for riverine restoration.
- Develop and document NbS models addressing: Riverbank erosion, Flood mitigation, Groundwater recharge, Biodiversity conservation, Climate adaptation and resilience.
- Develop and document standard technical designs and specifications for each restoration model including SMC works.
- Define implementation protocols and operational procedures.
- Prepare species selection guidelines and planting prescriptions.
- Develop maintenance and post-restoration management requirements.
- Document compendium of riverine restoration best practices and technical restoration models for different degradation scenarios.

Certain milestones, as laid out in the table below, are to be achieved by certain dates during the contract term:

| <b>Milestone/Deliverable</b>                                                              | <b>Timeline</b>                 |
|-------------------------------------------------------------------------------------------|---------------------------------|
| Inception meeting                                                                         | 1 <sup>st</sup> week            |
| Baseline assessment report with LiDAR, DEM and DTM.                                       | 6 <sup>th</sup> week            |
| Degradation and Restoration Opportunity Assessment Report.                                | 10 <sup>th</sup> week           |
| GIS Database and Thematic Maps.                                                           | 12 <sup>th</sup> week           |
| Technical Designs and Cost Estimates for SMC and Biological Interventions.                | 16 <sup>th</sup> week           |
| Community Engagement and Livelihood Strategy.                                             | 20 <sup>th</sup> week           |
| Comprehensive Micro Plan / Operational Plan for Sabarmati Riverine Landscape Restoration. | 24 <sup>th</sup> week           |
| Pilot Implementation Support Report.                                                      | 32 <sup>nd</sup> week           |
| Suggesting different riverine landscape restoration models for Gujarat Forest Department  | 40 <sup>th</sup> week           |
| Providing implementation support                                                          | During the entire time duration |
| Producing compendiums                                                                     | 60 <sup>th</sup> Week           |

**Period of assignment: From December 2026 until February 2028**

Note:

- The final reports pertaining to the assignment need to be submitted in a formatted word version to GIZ. Capacity building material may be designed after mutual discussion and after due deliberations with the plans of ICFRE, the project's consortium partner.
- All reports need to include an executive summary, content page, list of acronyms used, figures, maps and tables. All figures, maps, tables and images need to be captioned.
- GIZ language and communication guidelines shall be followed in the report.
- The reports shall be technically reviewed by GIZ and other parties as desired by GIZ.
- The final editing, designing and publication of the report shall be undertaken by GIZ.
- The authors and the organisation involved will be duly credited in the publication.
- The copyrights of the publication will remain with GIZ.

### 3. Concept

In the tender, the tenderer is required to show *how* the objectives defined in Chapter 2 (Tasks to be performed) are to be achieved, if applicable under consideration of further method-related requirements (technical-methodological concept). In addition, the tenderer must describe the project management system for service provision.

Note: The numbers in parentheses correspond to the lines of the technical assessment grid.

### Technical-methodological concept

**Strategy (1.1):** The tenderer is required to consider the tasks to be performed with reference to the objectives of the services put out to tender (see Chapter 1 Context) (1.1.1). Following this, the tenderer presents and justifies the explicit strategy with which it intends to provide the services for which it is responsible (see Chapter 2 Tasks to be performed) (1.1.2).

The tenderer is required to present the actors relevant for the services for which it is responsible and describe the **cooperation (1.2)** with them.

The tenderer is required to present and explain its approach to **steering** the measures with the project partners (1.3.1) and its contribution to the **results-based monitoring system** (1.3.2).

The tenderer is required to describe the key **processes** for the services for which it is responsible and create an **operational plan** or schedule (1.4.1) that describes how the services according to Chapter 2 (Tasks to be performed by the contractor) are to be provided. In particular, the tenderer is required to describe the necessary work steps and, if applicable, take account of the milestones and **contributions** of other actors (partner contributions) in accordance with Chapter 2 (Tasks to be performed) (1.4.2).

The tenderer is required to describe its contribution to knowledge management for the partner (1.5.1) and GIZ and to promote scaling-up effects (1.5.2) under **learning and innovation**.

### Project management of the contractor (1.6)

The tenderer is required to explain its approach for coordination with the GIZ project. In particular, the project management requirements specified in Chapter 2 (Tasks to be performed by the contractor) must be explained in detail.

The tenderer is required to draw up a **personnel assignment plan** with explanatory notes that lists all the experts proposed in the tender; the plan includes information on assignment dates (duration and expert days) and locations of the individual members of the team complete with the allocation of work steps as set out in the schedule.

The tenderer is required to describe its backstopping concept. The following services are part of the standard backstopping package, which (like ancillary personnel costs) must be factored into the fee schedules of the staff listed in the tender in accordance with Section 3.3.1 of the GIZ AVB:

- Service-delivery control
- Managing adaptations to changing conditions
- Ensuring the flow of information between the tenderer and GIZ
- Assuming personnel responsibility for the contractor's experts
- Process-oriented steering for implementation of the commission
- Securing the administrative conclusion of the project

### Eligibility criteria for the consulting agency

Bidders must submit the documentary evidence (**as per Annex A of Bidding conditions**) for the criteria's specified below. Also please refer document "*Grid for eligibility of consulting firms*" for more details.

1. Be a registered as national organization or entity.
2. In case of bidding consortia: Declaration by consortium
3. Average annual turnover for the last three financial years should be at least EUR 100,000.
4. The agency should have minimum 10 employees as on previous three years.

### Technical Eligibility Assessment

5. The agency must provide at least 2 reference projects that involves forest landscape restoration projects, watershed development, river rejuvenation projects, restoration of degraded land, land erosion control or similar project designing and implementation experiences.
6. The technical assessment is only based on reference projects with minimum commission value of 30,000 EUR
7. The agency must have handled at least 3 projects on forest landscape restoration, planning of riverine restoration, watershed development, landslide risk reduction, river rejuvenation, degraded land restoration.

### Weighted Criteria

8. The agency must have at least 3 years of experience in designing forest landscape restoration, planning of riverine restoration, watershed development, landslide risk reduction, river rejuvenation, degraded land restoration, with demonstrated experience in project designing, implementation and community mobilisation.
9. The agency should have at least 5 years of experience in providing consulting services for state/national agencies and excellent track record of completion of tasks according to timelines.
10. The agency should have regional experience in India, with at least 3 reference projects

## 4. Personnel concept

The bidder is required to provide personnel who are suited to filling the positions described, on the basis of their CVs (see Chapter □), the range of tasks involved and the required qualifications.

The below specified qualifications represent the requirements to reach the maximum number of points.

### Team leader (2.1 – Technical Assessment Grid)

#### Tasks of the team leader

- Overall responsibility for the advisory packages of the contractor (quality and deadlines)
- Coordinating and ensuring communication with GIZ, partners, and others involved in the project.

- Personnel management, identifying the need for short-term assignments within the available budget, as well as planning and steering assignments and supporting local and international short-term experts.
- Regular reporting in accordance with deadlines
- Technical lead for designing the riverine landscape restoration plan and models.
- Technical backstopping support for assessment and planning teams

#### Qualifications of the team leader

- Education/training (2.1.1): Post-graduate in Forestry, Hydrology, civil engineering or any other related fields. Diplomas in the relevant fields backed by sufficient work experience will also be considered.
- Language (2.1.2): Good business language skills in English and Hindi
- General professional experience (2.1.3): 10 years of professional experience in the ecosystem restoration.
- Specific professional experience (2.1.4): 7 years professional experience in riverine landscape restoration.
- Leadership/management experience (2.1.5): 5 years of management/leadership experience as project team leader or manager in a company
- Regional experience (2.1.6): 4 years of experience in projects in India (region). International experience is an advantage.
- Development Cooperation (DC) experience (2.1.7): 2 years of experience in DC projects

### **Expert 1 – Landscape Restoration Expert (2.2 – Technical Assessment Grid)**

#### Tasks of expert 1

- Develop operational plan / micro plan with help of the other team members.
- Providing details of the NbS for the Riverine Landscape Restoration.
- Assess the extent, drivers, and intensity of degradation affecting the riverine landscape.
- Identify critical ecological zones, degraded stretches, erosion-prone areas, floodplains, riparian buffers, wetlands, and connectivity corridors requiring restoration.
- Analyze landscape-level ecological processes and interactions between terrestrial and aquatic ecosystems.
- Support in the finalisation of the restoration concepts and implementation strategies in consultation with the forest department.
- Coordination with the different stakeholders including the local forest department, other agencies, community etc.
- Determine intervention locations, treatment specifications, implementation schedules, and resource requirements.
- Design site-specific and scalable riverine restoration models suitable for different ecological and land-use contexts.
- Develop restoration prescriptions for various riverine ecosystem types and degradation scenarios.
- Prepare technical guidelines and best-practice recommendations for replication and scaling up.

#### Qualifications of expert 1

- Education/training (2.2.1): Post graduate degree in Forestry, Ecology, Environmental Science, Biology or any other relevant fields. Diplomas in the relevant fields backed by sufficient work experience will also be considered.

- Language (2.2.2): English, Gujarati and Hindi
- General professional experience (2.2.3): 7 years of professional experience in developing and delivering forestry or ecological restoration projects, etc.
- Specific professional experience (2.2.4): 5 years in implementation of riverine management, restoration of ecologically disturbed areas, invasive species management, soil erosion control measures, sea-level rise management or similar projects.
- Regional experience (2.2.6): 2 years of the total experience in projects in India

## **Expert 2 – Hydrology Expert (2.3 – Technical Assessment Grid)**

### Tasks of expert 2

- Lead the technical development of the riverine ecosystem rejuvenation and restoration approach through hydrological considerations.
- Collect, review, and analyse available hydrological, hydrogeological, meteorological, and watershed-related data for the project area.
- Assess river flow characteristics, seasonal flow variability, runoff patterns, groundwater conditions, and water availability.
- Delineate watershed, sub-watershed, and micro-watershed boundaries using GIS and hydrological tools.
- Analyze catchment characteristics such as slope, drainage patterns, runoff generation zones, infiltration potential, and erosion susceptibility.
- Identify critical source areas contributing to sediment load, flash floods, and water scarcity.
- Identify and prioritize locations for hydrological restoration interventions across the riverine landscape.
- Assess the suitability of different interventions for enhancing groundwater recharge, reducing runoff, controlling erosion, and improving water retention.
- Recommend appropriate Soil and Moisture Conservation (SMC) interventions based on terrain, hydrology, and erosion risk.
- Contribute to the preparation of detailed operational plans and treatment maps.
- Provide intervention-wise designs, quantities, specifications, and implementation guidelines.
- Support preparation of annual and phased implementation schedules.
- Ensure alignment of hydrological interventions with ecological restoration objectives.

### Qualifications of expert 2

- Education/training (2.3.1): Post graduate degree in Civil Engineering, Environmental Engineering, Geology or related field.
- Language (2.3.2): Good business language and interpersonal skills. Fluency in English Gujarati and Hindi.
- General professional experience (2.3.3): 7 years of professional experience in designing SMC works, Hydrological and watershed management, climate change impacts management, sustainability solutions, natural resource management.
- Specific professional experience (2.3.4): 5 years of work experience in river rejuvenation projects, landslide and soil management, natural resource management projects with private and/or government sector.

- Regional experience (2.3.6): 3 years of experience in projects at international/national/state levels

### **Expert 3 – Social Science Expert (2.4 – Technical Assessment Grid)**

#### Tasks of expert 3

- Lead a comprehensive socio-economic assessment of communities residing within and dependent on the riverine landscape.
- Coordinate for both primary and secondary data on demographics, livelihoods, land use, resource dependence, income sources, social infrastructure, and vulnerability profiles.
- Assess the dependence of local communities on riverine ecosystems, including agriculture, livestock rearing, fisheries, forest resources, and other ecosystem services.
- Identify and map key stakeholders, including local communities, community-based organizations, village institutions, government agencies, civil society organizations, private sector actors, and vulnerable groups.
- Analyze stakeholder interests, roles, responsibilities, influence, and potential contributions to restoration efforts.
- Assess institutional arrangements and governance mechanisms relevant to riverine landscape management.
- Design and facilitate participatory consultation processes at village, watershed, and landscape levels.
- Organize Focus Group Discussions (FGDs), Gram Sabha consultations, key informant interviews, and stakeholder workshops.
- Ensure meaningful participation of women, youth, tribal communities, agriculture and pastoralists, marginalized groups, and other vulnerable stakeholders.
- Assess existing livelihood systems and their interactions with riverine ecosystems.
- Analyze patterns of natural resource use, including water, grazing lands, forests, wetlands, and common property resources.
- Identify livelihood practices contributing to degradation and opportunities for sustainable resource management.
- Review existing governance structures and institutional mechanisms relevant to riverine landscape management.
- Recommend institutional arrangements for implementation, coordination, monitoring, and long-term management of restoration interventions.
- Propose mechanisms for inter-departmental and multi-stakeholder coordination.
- Facilitate the integration of community priorities into restoration planning.
- Conduct gender and social inclusion assessments to identify barriers to participation and equitable benefit sharing.
- Ensure that restoration planning addresses the needs and priorities of women, youth, landless households, tribal communities, and other marginalized groups.
- Develop implementation frameworks for community engagement, governance, institutional strengthening, and livelihood support.

#### Qualifications of expert 3

- Education/training (2.4.1): Post graduate degree in Social Sciences, Social work, Sustainability or related field.
- Language (2.4.2): Good business language and interpersonal skills. Fluency in English Gujarati and Hindi.

- General professional experience (2.4.3): 7 years of professional experience in designing community engagement plans, gender and social inclusion practices, climate change impacts management, sustainability solutions, natural resource management.
- Specific professional experience (2.4.4): 5 years of work experience in community mobilisation for natural resource management projects, participatory approach for technical cooperation projects, community centric sustainability projects with private and/or government sector.
- Regional experience (2.4.6): 3 years of experience in projects at international/national/state levels

### **Pool of Experts 1 – Remote sensing and GIS expert (2.6 – Technical Assessment Grid)**

The pool is expected to have the following experts to support the assignment through GIS and remote sensing analysis of the given river patch including the connected watershed.

#### Tasks of the Pool of Experts:

- Support overall GIS-based hydrological analysis and spatial prioritization of restoration interventions.
- Understand the use of LiDAR techniques and shall be able to generate and process high-resolution Digital Elevation Models (DEMs) and Digital Terrain Models (DTMs).
- Coordinate and guide GIS-based mapping and spatial prioritization of restoration interventions.
- Validate restoration treatment maps, restoration units, and intervention boundaries.
- Ensure spatial integration of ecological, hydrological, and socio-economic datasets for planning purposes.
- Develop hydrological maps with other experts through the help of remote sensing data.

#### Qualifications of expert

- Qualifications (2.6.1): Degree or Diploma in Remote Sensing, GIS or a related field.
- Language (2.6.2): English and Hindi.
- General professional experience (2.6.3): 4 years of experience in remote sensing and GIS analysis.
- Specific professional experience (2.6.4): 2 years of experience in remote sensing of natural resources, forestry or riverine ecosystem systems.

#### Soft skills of team members

In addition to their specialist qualifications, the following qualifications are required of team members:

- Team skills
- Initiative
- Communication skills
- Sociocultural competence
- Efficient, partner- and client-focused working methods
- Interdisciplinary thinking

## 5. Costing requirements

### Assignment of personnel and travel expenses

#### Sustainability aspects for travel

GIZ has undertaken an obligation to reduce greenhouse gas emissions (CO<sub>2</sub> emissions) caused by travel. When preparing your tender, please incorporate options for reducing emissions, such as selecting the lowest-emission booking class (economy) and using means of transport, airlines and flight routes with a higher CO<sub>2</sub> efficiency. For short distances, travel by train (second class) or e-mobility should be the preferred option.

CO<sub>2</sub> emissions caused by air travel must be offset. GIZ specifies a budget for this, through which the carbon offsets can be settled against evidence.

There are many different providers in the market for emissions certificates, and they have different climate impact ambitions. The [Development and Climate Alliance \(German only\)](#) has published a [list of standards \(German only\)](#). GIZ recommends using the standards specified there.

#### Specification of inputs

| Fee days                                         | Number of experts     | Number of days per expert | Total | Comments                        |
|--------------------------------------------------|-----------------------|---------------------------|-------|---------------------------------|
| Team Leader (2.1)                                | 1                     | 60                        | 60    |                                 |
| Landscape restoration expert (2.2)               | 1                     | 120                       | 120   |                                 |
| Hydrology expert (2.3)                           | 1                     | 40                        | 40    |                                 |
| Social science expert (2.4)                      | 1                     | 60                        | 60    |                                 |
| Pool of Experts 1 – Remote Sensing and GIS (2.6) | 1                     | 40                        | 40    |                                 |
| Travel expenses (5 experts)                      | Quantity (per travel) | Number per expert travels | Total | Comments                        |
| Accommodation                                    | 4                     | 25                        | 100   |                                 |
| Per Diem                                         | 4                     | 25                        | 100   |                                 |
| Transport                                        | Quantity              | Number per expert         | Total | Comments                        |
| Flights Domestic                                 | 5                     | 3                         | 15    | From base location to Ahmedabad |

|                                                              |               |    |              |                                                                                             |
|--------------------------------------------------------------|---------------|----|--------------|---------------------------------------------------------------------------------------------|
| <b>Travel expenses (train, car)</b><br>• Surface travel<br>• | 4             | 25 | 100          | Local taxi in and around Sabarkantha                                                        |
| <b>Other costs</b>                                           | <b>Number</b> |    | <b>Total</b> | <b>Comments</b>                                                                             |
| CO <sub>2</sub> compensation for air travel                  | 15            |    | 15           | A fixed budget of EUR <b>675</b> is earmarked for settling carbon offsets against evidence. |

## 6. Inputs of GIZ or other actors

GIZ and consortium partners are expected to make the following available:

- Introduce the agency to the government administration at the start of the project.
- Lead all official communication with other actors for this assignment.
- Suggest additional participants for any meetings, trainings, and workshops.
- Organize workshop for knowledge dissemination
- Propose technical amendment to the planning and design
- Technical input for finalising the activity plan, review strategies and periodic review and reporting of progress.
- Inputs on branding, design of all communication materials and knowledge products
- Access to datasets required from government sources
- Access to all the details related to the selected plot

## 7. Requirements on the format of the tender

The structure of the tender must correspond to the structure of the ToR. In particular, the detailed structure of the concept (Chapter 3) should be organised in accordance with the positively weighted criteria in the assessment grid (not with zero). The tender must be legible (font size 11 or larger) and clearly formulated. It must be drawn up in English (language).

The complete tender must not exceed 20 pages (excluding CVs). If one of the maximum page lengths is exceeded, the content appearing after the cut-off point will not be included in the assessment. External content (e.g. links to websites) will also not be considered.

The CVs of the personnel proposed in accordance with Chapter 4 of the ToRs must be submitted. The CVs shall not exceed 4 pages each. They must clearly show the position and job the proposed person held in the reference project and for how long. The CVs can also be submitted in English (language).

Please calculate your financial tender based exactly on the parameters specified in Chapter 5 Quantitative requirements. The contractor is not contractually entitled to use up the days, trips, workshops or budgets in full. The number of days, trips and workshops and the budgets will be contractually agreed as maximum limits. The specifications for pricing are defined in the price schedule.