

DRAFT TERMS OF REFERENCE:

STUDY ON MINING AFFECTED AREAS AND ITS IMPACT ON LIVELIHOOD

1. **Background:**The Meghalaya Basin Development Authority (MBDA) has applied for financing from the World Bank towards the cost of the Meghalaya Community Led Landscape Management Project (CLLMP). Project will be implemented by Meghalaya Basin Management Agency (MBMA). Major components of the proposed project are: ”

- To strengthen community led natural resource management in different landscapes in Meghalaya.
- To facilitate community-led planning by providing support, technical inputs and funding. The community will be engaged at the very early stage of the project planning.
- The Meghalaya Community Led Landscape Management Project (MCLLMP) will work with the communities broadly in the area of landscape forest and water and will help in identifying activities for degraded forest, soil and water conservation, rejuvenation of springs and water bodies, nature based tourism, agro-forestry and homestead forestry. The project will enhance skills and technical capacity of communities along with strengthening support to social system.

2. **The Scope of work:**

The MBMA is looking for engaging an agency to conduct a study on mining affected areas. Broad scope of work though not exhaustive is listed below:

- a. To conduct Assessment of community conservation practices and knowledge.
- b. To conduct Demand supply of wood, fuel wood and charcoal at village/watershed level.
- c. To study the effects of coal, limestone, sillimanite, stones and sand mining etc on land, water, forest resources and the community that are dependent for their livelihood on the resources particularly when the ecological and occupational considerations are not given due importance.
- d. To identify suitable sample sites for the study to cover different minerals like coal, lime, stone etc, different types of mining, regions/landscapes and tribal people.
- e. To make an assessment of areas affected by each type of mining.
- f. To study and analyse hazards of each mining type/category in terms of impacts on
 - Human health.
 - Natural resources with special emphasis on soil, water and biodiversity.

- Livelihood with particular reference to agriculture including horticulture/livestock/aquaculture/ fishery.
- g. Conduct stake holder consultation on preliminary findings of the study.
- h. Suggest measures to mitigate the adverse impact of mining activity on livelihoods.
- i. Prepare an action plan for restoration of the mining affected areas.
- j. To prepare the Rehabilitation Strategies in order to:
 - Check soil loss and silt load in streams, rivers and reservoirs.
 - Improve soil moisture regime,
 - Promote in situ water harvesting,
 - Improve recharge of springs and aquifers,
 - Promote afforestation/reforestation of denuded hills/areas,
 - Promote development of pasture lands and horticulture plantations,
 - Impart training and capacity building for the village community/farmers on sustainable farming practices,
 - Provide support for livelihood activities such as piggery, poultry, fisheries, etc.

3. **Key result expected**

Study Report on the impact of current and abandoned mining operations on communities that are dependent for their livelihoods on the natural ecosystems.

4. **Activities**

The following activities are expected to be performed by the selected consultant:-

- (a) Collection of data and discussion with the State Govt. officers and other stakeholders.
- (b) Series of both formal and informal consultation with Legal Experts, Administration, Policy Makers, Researchers, Green Volunteers, NGO representatives (Shillong) and the Autonomous District Councils – to gather inputs for the study.
- (c) Gathering of legal materials (statutory precedents and administrative).
- (d) Drawing lessons from experience in the field (at the grassroots)- from line agencies, local bodies, research and voluntary organizations, communities and at the policy-making levels – senior levels of administration, related agencies of state, law and policy makers.
- (e) Assessment of existing laws, regulations, orders, operating rules and forest rights etc.
- (f) Preparation of draft report
- (g) Preparation of final report

5. **Time Frame**

The assignment is to be completed within a period of 6 (six) months from the date of signing the contract.

6. Key Experts required for the Assignment.

Designation	Desired Qualification	Desired Experience
Team Leader	Masters of Mining & Geology/Mineral Resources/Soil & Water Conservation(S&WC) (State/Central)	15-20 Yrs
Senior Research Specialist	PhD in Environmental Studies	5-10 Yrs
Environment Expert	Master in Environmental Studies	5 - 8Yrs
Mining & Geology Expert	Master in Geology/Earth Science	5 - 8Yrs
Research Associate (Soil & Water Conservation)	Master in S&WC/Earth Science/Geology	2-5 Yrs

7. **Reporting**

The agency will work closely with MBDA Technical Team.

8. **Monitoring of Study**

The CEO of MBDA/MBMA will designate nodal person to follow up and monitor the study. The designated person will closely follow up with the selected agency and provide necessary guidance during the training of enumerators, questionnaire development, field testing, data collection, data analysis, consultation, preparation of reports. The progress of the assignment will be reviewed on fortnightly basis.