

**TERMS OF REFERENCE
(REVISED)**

**Environment, Health and Safety Expert for Project Implementation Unit, PWD, Aizawl,
Mizoram**

1. Introduction

The Government of Mizoram (GOM) has completed improvements of 440 Kms of State Highways and MDRs under Mizoram State Road Project - I (MSRP-I) financed by World Bank. Considering the success and impact of MSRP I, Government of Mizoram is now carrying out Mizoram State Road II – Regional Transport Connectivity Project (MSRII-RTCP) to improve additional sections of State Highways and MDRs and to support road sector modernization. The road improvement works are being implemented in three works packages, covering the following road stretches: Champhai-Zokhawthar(C-Z) road (Champhai District), Chhumkhum-Chawngte(C-C) road (Lunglei District), and Tlabung-Kawrpuchhuah(T-K) road (Lunglei District). The road sector modernization plan is meanwhile being implemented by a Road Sector Modernization Group consisting of PWD officers at various levels and using consultants and training and academic institutions. The project also includes studies for future trade corridor development and upgrading referred to as “Group II” roads, including both technical design and safeguards studies, as well as associated strategic forest, biodiversity, and cumulative impact assessment studies.

The Public Works Department (PWD) Mizoram is the implementing agency for the project. A dedicated project implementation unit (PIU) has been established in Chief Engineer (Road) Office of Mizoram PWD, headed by a Project Director and supported by other staff is responsible to implement the project with support from various units of PWD. Environmental, health and safety management aspects of all project activities are overseen by an Environmental Unit within the PIU, headed by an Executive Engineer-Environment, and supported by various Assistant Engineers (AEs) and Junior Engineers (JEs).

Nonetheless, implementation capacity of the PIU on environmental, health and safety (EHS) aspects needs expert’s support due to limited experience within the PWD on these issues, and the state’s challenging environmental context for road development. PWD therefore proposes to engage an Environment Health and Safety Expert, hereafter called the Consultant, to assist it on environment, health and safety aspects and provide capacity building support to the PIU for effective implementation, monitoring and reporting of the project. The consultant is essentially to provide high quality management and implementation support in environment health and safety aspects to PWD by working as an integral part of the PIU.

2. Objective

The main objective of the service is to provide high quality management, monitoring, and implementation support to PWD on Environment, Health and Safety aspects for effective implementation of the project. The Consultant will be required to work side by side with the PIU team. This will include capacity building and skill enhancement of PIU staff.

3. Scopes and activities of the consulting service

The scope of services are in general, but not limited to, the following:

- a) Assist PWD to review and monitor implementation of the road improvement works including management of all environmental, health and safety (EHS) issues.
- b) Review implementation of EMPs at the three road works sites (C-Z, C-C and T-K roads) including compliance to Bank safeguard policies, including reviewing monthly monitoring reports from the Construction Supervision Consultant (CSC) and contractors, and following up to ensure issues raised are promptly addressed, and/or contractual measures invoked. Support PIU in constructively troubleshoot and resolve problems related to non-compliances with EMPs as well as any emerging issues on EHS management aspects;
- c) Support PIU to keep a track of the environmental clearances and permits required by the contractors from different government agencies, including but not limited to those required to cut trees, to work in forest area, to quarry material, to commence explosions for rock quarries, to establish worker camps, bore wells, etc., and advise the PIU accordingly;
- d) Support to PIU in reviewing Contractors' Site-Specific Environmental Management Action Plans (EMAPs), including follow-up with contractors and CSC in enhancing and further detailing out the plans where required;
- e) Support to PIU in following up on any grievances received related to EHS issues;
- f) Undertake checking through field visits on sample basis how the grievances of the citizens and communities if any, were addressed with respect to environmental, health and safety impacts and concerns of communities (in coordination with social colleagues of PIU);
- g) Assist the PIU in ensuring that the environmental safeguarding measures incorporated in the Contract documents, environmental management plans are being implemented by the Construction Supervision Consultant and the Contractors;
- h) Accompany PIU staff to the meetings on environment, health and safety related matters at District and State level authorities as well as prepare supporting documents for such meetings;
- i) Support PIU in preparing Quarterly Environmental Progress Reports for the World Bank; Support PIU to develop and implement a plan for afforestation, forest and biodiversity conservation and monitoring along project roads, as and where required;
- j) Support PWD's Environmental and Social Sub-Working Group of the Road Sector Modernization Program from the environmental perspective, in formulating environmental policies, standards and procedures for PWD and in proposing and carrying out capacity building programs and activities;
- k) Provide ongoing capacity building support to the project on EHS issues and management, including designing and delivering formal trainings/workshops as well as more informal mentoring and guidance to PIU staff, CSC and contractors. Provide support to designing and implementing community awareness activities on EHS risks, mitigation and management measures as required. Any other reasonable assistance that may be required

by PWD during the course of the implementation of the project that could be accommodated by the Consultant.

- l) For Group-2 roads, review the draft deliverables for all EIA and environmental related work and provide detailed technical comments and feedback to guide the consultants, in order to ensure:
- That environmental impact assessments have been prepared as required by World Bank and GOM requirements;
 - That adequate and appropriate mitigation, management and monitoring measures have been included in the environmental management plans, bidding and contract documents for individual project roads;
 - That all appropriate measures have been included in the project design and contract documents for minimizing and mitigating environmental, health and safety impacts and risks; Formulate additional mitigation and management measures and propose updates to the EMPs where required;
 - Ensure that cumulative and induced impacts are effectively studied, and strategic level action plans developed, for the future trade corridor in accordance with World Bank and national requirements;

4. Qualification Requirement

- a) Education: M.Sc in Environmental Science or equivalent preceded by Bachelor in Science or Environmental Science and preference will be given to BE in Civil Engineering.
- b) General Experience: At least 10 years(15 or more preferred) Environmental, Health and Safety (EHS) management aspects of road construction projects, including in hilly areas.
- c) Specific Experience:
- Environmental Impact Assessment or Initial Environmental Examination for road construction projects
 - Drafting of Environmental Management Plans for a construction project, preferably in road sector
 - Implementation or supervision/monitoring of implementation of Environmental Management Plan, including on health and safety aspects, for construction projects, preferably in road sector
 - Design and implementation of bio-engineering works for a project
 - Prior experience on Occupational Health and Safety as well as Community Health and Safety management and monitoring
 - Capacity building/training experience on EHS issues
- d) Preference:
- Familiar with local language
 - Experience of working in multilaterally funded projects
 - Proficient in using common word processors, spreadsheets and android apps

5. Duration and Commencement of Services

The expert is to provide services of total estimated 12 months over an 18 months period, with a minimum input of 2 to 3 weeks every month for the first 6 months, which also include project site visits. For months beyond first 6 months i.e.; 7-18 months period of the contract, a minimum of 2 weeks time input is envisioned. Besides the regular activities the project require support services based on the field progress and activities. The contract is expected to commence in September 2018 and last till March 2020. Potential need for further contract extension will be evaluated at the end of the 18 months period.

6. Reporting Requirements

The Consultant shall be under the immediate supervision of and will report to the Project Director, PIU. The reporting requirements shall be as follows:

- a) A weekly work plan on each Monday;
- b) A field visit report following field visits to any of the project roads;
- c) Monthly highlight report on the ongoing and completed activities as well as the way forward, including priority activities and proposed work schedule for the next three months, in both hard and soft copy;
- d) A quarterly highlight report on the ongoing and completed activities report as well as the way forward in the form of PowerPoint presentation at PWD for the quarter covered;
- e) A Final Report in hard and soft copy capturing the lessons learnt and the way forward;
- f) Any other reports as and when requested by the Employer.

7. Selection Process

Selection of the Consultant will be carried out in accordance with the selection procedure of Individual Consultants Selection in the World Bank's 'Guidelines: Selection and Employment of Consultants under IBRD Loans and IDA Credits and Grants by World Bank Borrowers' January 2011.

8. Facilities to be provided by the Employer

The Employer will provide the following:

- a) Access to the information and other assistance as required to effectively undertake this assignment;
- b) Working space within the PWD premises in Aizawl.

9. Responsibility of the Consultant

The Consultant is expected to provide his inputs in Mizoram. No home based inputs are envisaged. The Consultant shall manage stationery, office equipment, travels to and from Mizoram, lodging and boarding in Aizawl to render the services himself or herself.

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11. Contract and Payments

The Contract shall be time based with the inputs in Mizoram. 2 round trip travel expenses to Aizawl from the Consultant home (base), hotel accommodation, transportation, and Per-Diems shall be reimbursed as per actual as specified in the contract.