



# Road Maintenance Project (RMP)

## Environmental and Social Performance Requirements Dhankhola-Lamahi Road Section (DLRS)

15 April 2024



## ESP Requirements

- Government of Nepal Environmental Regulations – an IEE is required with an Environmental, Social, Health and Safety Management Plan (ESHSMP).
- MCC Environmental Guidelines – Category B project. MCC views projects in a holistic way and closely monitors adherence to Environmental Guidelines to ensure that the project is managing environmental/social impacts appropriately.
- IFC Performance Standards on Environmental and Social Sustainability.



## DLRS IEE Key Highlights: Existing Environmental Conditions

- About 13 km hilly section and the remaining flat areas.
- Land slides/soil erosion problems in the hilly sections.
- Two rivers and several rivulets cross the road sections.
- The road passes through 3 districts (Argakhanchi, Kapilvastu, and Dang) of Lumbini province, 3 municipalities (Shivaraj, Sitganga, and Lamahi), and 2 rural municipalities (Rapti and Gadhawa).
- Several plant and animal species are found in forests along the road alignment. However, this road section does not fall under any protected or buffer zone areas.
- Dhankhola, Kalkate, Bhalubang, Masuriya, Sishaniya, and Lamahi are major settlements along the road alignment.



# DLRS IEE Key Highlights: Environmental Impacts

- Landslide and soil erosion.
- Air, water, and noise pollution.
- Impact on public utilities.
- Solid waste and wastewater discharges.
- Materials Extractions.
- Spoil generation.
- Falling of 195 trees.
- Possible disturbance to wildlife movement.
- Loss of banana trees (11 HH) and bamboo tree (1 HH).
- Social conflict due to influx of workers.
- Pressure on public utilities due to influx of workers.
- Accidents and health safety.



## DLRS IEE Key Highlights: Mitigation of Environmental Impacts

- Maintenance of culverts and bridges to ensure safe road crossings for tiger and other animals.
- Relocations of electricity poles and other utilities.
- Ensure that aggregates are procured from quarries that has approved permits, and that they have adequate capacity.
- Bioengineering and other measures for stabilizing slopes disturbed during road maintenance works in hilly areas.
- Transport of spoil to stable locations and additional retention/drainage/planting works at these sites where necessary.
- Implement pollution control measures.
- Implement measures for accident prevention.
- Implement workers safety measures.



## DLRS IEE Key Highlights: ESHSMP

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- Responsibilities for implementing the ESHSMP.
- Key social safeguards supporting the ESHSMP.
- Construction site management.
- Health and safety components of the ESHSMP.
- Social components of the ESHSMP.
- Environmental components of the ESHSMP.
- Waste management.
- Management of mitigation and monitoring.
- Monitoring, reporting and enforcement processes.
- Safety absolutes.
- Contractor's COVID-19 Risk Mitigation Plan Template.



# ESP Compliance Requirements for the Contractor

- Preparation of Contractor's Environment, Social, Health and Safety Management Plan (CESHSMP) based on ESHSMP prepared by MCA-Nepal, and get it approved by the Engineer and MCA-Nepal.
- The Contractor is responsible for complying with all the mitigation requirements proposed in the IEE which would be included in ESHSMP.
- The Contractor is responsible for complying with IFC Performance Standards and MCC Environmental Guidelines.
- Prior to the mobilization to the construction site, the contractor needs to prepare the following plans and get it approved by MCA-Nepal:
  - Stakeholders Engagement Plan.
  - Communication Plan.
  - Site Mobilization Plan.
  - Grievance Redress Mechanism.
  - Workforce Management Plan.
  - Training Plan.
  - Health and Safety Protocol.



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