Ref. No.: METCLPL/DDN/25102025/08

CERTIFICATE

Its honor to declare that Environment Management Plan Training is conducted by **Mr. Vipin Ramola, Environment Expert** of, **METCLPL Laboratory,** Dehradun on **25/10/2024** for **Construction of 84 M Span Single Lane Steel Truss Pedestrian Bridge over Alaknanda River in District Pauri, Uttarakhand.**

This Certificate is issued to **M/s Triveni Construction Company, Kailash Gate, Muni Ki Reti, Tehri Garhwal, Uttarakhand - 249137.** All labors & worker actively participated in EMP Training & does Complies all the environment & safety norms.

Vipin Chand
Dy. TM

Signature

Date: 31/10/2025

Enclosures:

1. EMP Training Report

Committed for Assuring the Better Performance in Environmental Problems.

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ENVIRONMENT MANAGEMENT PLAN TRANING

1.0 INTRODUCTION

The Environmental Management Plan (EMP) for the **Construction of 84 M Span Single Lane Steel Truss Pedestrian Bridge over Alaknanda River in District Pauri, Uttarakhand,** identifies the principles, approach, procedures and methods that will be used to control and minimize the environmental and social impacts of all construction and operational activities associated with the project. It is intended to complement the project Supplementary Environmental and Social Impact Assessment (SESIA)

- Construction Impact Management Plan – measures to minimize negative impacts of construction activities on local communities and the natural environment, to reduce the induced impacts of camp followers, to prevent pollution and ensure that hazardous

- Biodiversity and Protected Areas Management Plan – measures to ensure protection of local and regional biodiversity and minimize project impacts on three adjacent protected areas;

- Site Clearing Plan – measures to minimize biomass loss as a result of site clearing and to coordinate the timing of vegetation removal to allow salvage benefits to local communities;

- Environmental Monitoring Plan – measures to ensure project compliance, measure the success of proposed mitigation, continue baseline monitoring and review environmental and social performance;

- Community Relations and Safety Plan – measures to inform local communities about the progress of the project and ensure community safety;

- Regional Health Management Plan – PMB shall prepare a regional health plan to mitigate project impacts on the health of local populations;

- Physical Cultural Resources Management Plan – measures to prevent any inadvertent loss of physical and cultural resources during project construction and operation

;

- Additional Studies – additional studies are planned to provide more baseline information for the project; and
- Training and Capacity Building – training and capacity shall be provided in all aspects of the EMP.

STRUCTURE OF EMP

Environmental Management Plan (EMP) is the key to ensure a safe and clean environment. The desired results from environment mitigation measures proposed in the project may not be obtained without a management plan to assure its proper implementation & function. The EMP envisages the plans for the proper implementation of mitigation measures to reduce impacts arising out of the project activities. EMP has been prepared addressing the issues like.

- Pollution control/mitigation measures for abatement of undesirable Impacts caused during the construction stage.

1.1 ENVIRONMENTAL MANAGEMENT PLAN DURING CONSTRUCTION PHASE

1.2 AIR MANAGEMENT

- Dust generation will be reduced by using sharp teeth for excavation machinery.
- Dust suppression system (water spray) will be used at construction site and unpaved roads.
- A team of safal karamcharies will be made available to remove dirt/debris from the floor/ sites.
- During transportation, materials shall be covered by tarpaulin sheets.
- All the D.G sets will have appropriate stack height as per the CPCH guideline..
- Company operated vehicle will go through regular maintenance & pollution check-up.
- Screens will be put up all along the periphery to contain the dust within the premises.

1.3 WATER QUALITY MANAGEMENT

- The water requirement during construction phase will be full filled by water tankers, arranged by the contractor.
- Proper storage and internal supply facilities shall be developed before undertaking construction activities.
- During construction phase proper bonding will be made to prevent runoff.

1.4 NOISE MANAGEMENT

Objective(s)

- To minimize the impacts of noise on the amenity of the surrounding areas.
- Construction activities undertaken in accordance with *AS 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition* Sites
- Construction activities undertaken in accordance with *Environmental Protection*

Management Strategy

- Noise to be managed primarily through administrative and equipment controls during the construction phase.

Control(s)

- All equipment used during the construction phase to be regularly maintained to ensure efficient operation
- Pre-start checks and maintenance schedules to ensure equipment performance is as required
- Noise-dampening equipment to be used on equipment with excessive noise generating characteristics

1.5 SOIL MANAGEMENT

Site activities shall be carefully managed in order to avoid site erosion and sedimentation of
downstream waterways. In order to minimize negative erosion impacts in the project area, the

following activities shall be carried out by the Contractor

- The excavated earth material generate during construction will be disposed at designated place in tune with local norms.
- Top soil generated during construction will be reuse in plantation and green area development.
- Area shall be properly fenced and provided with proper drainage pattern.
- Construction work will not be carried out during heavy rainfall. It will be ensured that no soil is left unconsolidated after completion of work.
- Waste construction material will be recycled and excess will be disposed at design in tune with the local norms.
- Proper collection and disposal of waste will be done during construction such as metal cutting debris, plastic packing material, wooden logs etc.

1.6 WELFARE & SAFETY MEASURES FOR LABOURS

WELFARE:

- Potable drinking water.
- Provide proper toilets and bathrooms.
- Provide crèche facility for labour children.
- First Aid Facility will be provided during the construction phase.
- Liaison with hospitals for emergencies.
- Training on AIDS control measured like AIDS Spreads etc.

SAFETY:

- Measures for first aid, fire- fighting and premises evacuation
- Necessary contacts with appropriate emergency service (first aid, emergency medical care, rescue work and fire- fighting)
- Safety helmets, belts and slings, nets, PPE's(personal protective equipments)
- Properly braced scaffoldings.
- Properly laid electrical cables and connections.
- D.G sets with acoustic enclosures to reduce noise pollution.

1.7 ELECTRICAL HAZARDOUS PLAN

THE ELECTRICAL HAZARDSPLAN

- To keep the power lines at standard heights such that these are beyond the reach of the workers.
- All connections to be provided with proper earthing.
- Provide Electrical Earth Cricuit Breakers.
- All equipment to be used in the manner prescribed.
- Avoid improper use of extension/flexible wires.
- Provision of proper fuses to avoid short circuits.
- Use of insulated tools by the concerned persons.

IN CASE OF ACCIDENTS

- Provide medical aid at site.
- To keep liaison with nearest hospitals for emergency services.

1.8 WASTE MANAGEMENT

- Solid wastes which are likely to be generated in project will be construction waste & domestic waste.
- Minimal amount of excavated earth material will be generated which will be utilized within the project site.
- Biodegradable & Non- Biodegradable waste will be segregated at source in accordance with MSW (M&H) Rules, 2000.
- Garbage will be collected on daily basis by authorized personals.
- there will be provision to send the waste to a centralized collection facility.
- Recyclable waste like empty bottles, plastic bags etc will be handed over to serviced by the authorized Agency/ Contractor.
- No hazardous wastes will be produced/ generated from project activities except spent Oil generated from D.F sets it will be stored in HDPE drums and will be handed over to authorized processor/ recycles for the further treatment and disposal.

1.9 Declaration

- We confirm that this Plan has been monitored on a regular basis and revised and updated as necessary, in accordance with the Site Waste Management Plan

Name: Vipin Ramola

Signature: Ramola.

Date: 31/10/2025

METESTING & CALIBRATION LABORATORY PVT. LTD. ★ Vipin Chand Dy. TM

*****End of Report*****