

Letter No: ARKS/PMU/24-25/16

Date: 18.11.2025

To,
The Authority Engineer,
Provincial Division
PWD, Pauri Uttarakhand

LOA No.- LOA NO: 417/15/BR/RFB-EPC/UGRIDP/2023

Reference: (Construction of 150M Span Intermediate Lane Motor Bridge & its approach over Nayar River for Badkholu village in District Pauri, Uttarakhand State)

Subject: Submission of Social & Environmental Plans.

Dear sir,

With reference to the above-mentioned work, we hereby submit the Environmental and Social Plans in compliance with the contractual requirements, for your kind review and approval. The details of the reports are as follows:

S. No.	File No.	Description
1	File no.1	Social Management Plan (C-SMP)
2	File no.2	Environmental Management Plan (C-EMP)
3	File no.3	Emergency Response Preparedness Plan (ERPP).
4	File no.4	Labour Management Plan (LMP)
5	File no.5	Occupational Health and Safety (OHS) Plan
6	File no.6	Sexual Harassment Prevention & Redressal Plan
7	File no.7	Stakeholder Management Plan
8	File no.8	Waste Management Plan (WMP)

This is submitted for your kind information and necessary action.

Best Regards

M/s ARKS Universal Pvt. Ltd.



Authorised Signatory

ARKS UNIVERSAL PVT.LTD.
(Authorised Signatory)

Encl: Senior Environment and Social expert, PIU (PWD) U-PREPARE Uttarakhand.

Occupational Health and Safety (OHS) Plan

Project Title: Construction of 150 m Span Intermediate Lane Motor Bridge & Its Approach Over Nayar River for Badkholu Village, District Pauri, Uttarakhand

Prepared By: Kamaralam Mansuri (Safety Expert).

1. Scope.

This OHS Plan outlines the occupational health and safety protocols to be implemented during the construction of a 150 m span intermediate lane motor bridge and its approaches, located in a hilly and river-adjacent area.

It covers excavation, substructure and superstructure works (including steel truss erection and deck slab concreting), approach road formation, and all riverbank activities.

The plan aims to prevent accidents, protect workers, and ensure full legal and regulatory compliance.

2. Key Safety Hazards – Bridge Construction.

Activity	Key Hazards
Manual Excavation	Falling rocks, tool injuries
Steel Truss Erection	Fall from height, dropped materials, lifting failure
Deck Slab Concreting	Formwork failure, slips, cement burns
Working at Height	Scaffold collapse, fall
Approach Road Construction	Slips, slope failure, dust inhalation
River Proximity Works	Drowning, slippery rocks, flash floods

3. Legal & Standard References.

- Indian Standards:

- IS 3764 – Safety Code for Excavation
- IS 3696 – Safety in Scaffolding and Working at Height
- IS 13367 – Safe Use of Cranes

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- Codes: IRC SP 55, MORTH
- Acts: Building and Other Construction Workers (BOCW) Act 1996; Factories Act 1948
- Other Guidelines: OSHA (where applicable)

4. Roles & Responsibilities.

Designation	Duties / Responsibilities
Project Engineer	Ensure compliance with design and safety protocols at all construction stages
Safety Expert	Conduct safety training, risk assessment, toolbox talks, and site audits
Site Supervisor	Enforce PPE use, safe work practices, and immediate hazard reporting
Equipment Operators	Operate machinery only after safety inspection and authorization
Labourers/Workers	Use PPE, follow safe methods, and report unsafe acts/conditions promptly

5. Hazard Identification & Control Measures

Activity	Hazard	Risk Rating	Control Measures
Manual Excavation	Tool injury, falling rocks	High	Proper benching, use of helmets & gloves, supervised digging
Truss Launching	Lifting failure, fall from height	Critical	Harnesses, rigging checklist, tag lines, crane inspection
Deck Concreting	Slip, fall, cement burns	High	Non-slip shoes, PPE, stable formwork staging
Scaffold Work	Collapse, fall	High	Certified scaffolding, anchorage, daily checks
Riverbank Activities	Slips, drowning	High	Life jackets, restricted access during high flow, barricading
Reinforcement Work	Cuts, trip hazard	Medium	Use gloves, proper bar bending zone, clear walking paths

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6. Control Protocols.

- **PPE Mandatory:**
Helmets, gloves, reflective vests, safety boots, harnesses (for height), life jackets (near river)
 - **Manual Tools Safety:**
Use correct tools, ensure regular inspection and safe storage
 - **Barricading:**
All active zones marked with reflective tape and safety signage
 - **Height Safety:**
Use of harness, lifelines, fall arresters, and scaffolding inspections
 - **Lifting Operations (Truss & Steel Components):**
Rigging plan approval, trained signaller, pre-lift checks, and load test certificates
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7. Emergency Response Plan.

- **Evacuation & Muster Point:**
Clearly marked escape routes; designated muster point uphill from river area
 - **Emergency Contacts:**
Displayed at main gate and site office – Ambulance, Local Hospital, Police, Fire Department
 - **Medical Readiness:**
First-aid kits at site, trained first-aider available, tie-up with nearest hospital
 - **Fire Safety:**
Fire extinguishers (ABC type), fire blankets near welding stations, no open flames near fuel
 - **Flash Flood Preparedness:**
Daily weather monitoring; no work allowed during heavy rainfall or rising river levels
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8. Incident Reporting & Investigation

- **Reporting Timeline:**
All near misses, first-aid cases, and LTIs (Lost Time Injuries) must be reported within 1 hour
- **Investigation:**
Every incident to be investigated within 24 hours by the HSE Officer

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- **Root Cause Analysis:**
Conducted using the 5-Why or Fishbone method for all major incidents
- **Reporting Protocol:**
Findings to be submitted to Project Manager, Client, and relevant authorities (if required)

9. Training and Induction

Training Type	Frequency	Conducted By
General Site Induction	Before deployment	HSE Officer
Toolbox Talks	Daily (pre-work)	Site Supervisor / HSE
Height Safety Training	Monthly	Certified Trainer
Emergency Response Drill	Quarterly	Safety Expert
Rigging & Manual Handling	Bi-Monthly	Safety Expert / Trainer

10. Monitoring & Audits

- Daily: Site inspections by HSE Officer
- Weekly: Compliance summary to Project Manager
- Monthly: Internal audit report
- Client Audits: As per project milestones or schedule

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