

Appendix-7: Checklist of safety measures during construction

ANNEX 6: PRECAUTIONS FOR PROTECTION OF ENVIRONMENTAL RESOURCES

1. The Contractor shall ensure that construction activities do not result in any contamination of land or water by polluting substances.
2. Unless otherwise provided in the specifications, the Contractor shall ensure that no trees or shrubs or waterside vegetation are cut or harmed except those required to be cleared for execution of the works. The Contractor shall protect trees and vegetation from damage to the satisfaction of the Engineer.
3. The Contractor shall not use or permit the use of wood as a fuel for the execution of any part of the works and to the extent practicable, shall ensure that fuels other than wood are used for cooking and heating in all camps and living accommodations. Any wood so used must be harvested legally, and the Contractor shall provide the Engineer with copies of the relevant permits, if required.
4. The Contractor shall consult with local residents and local government before locating project offices, sheds, and construction plant. The work camps shall not be located near settlements, near drinking water supply intakes, protected areas, or wildlife habitats.
5. In the conduct of cleaning activities and operation of equipment, the Contractor will utilize such practicable methods and devices as are reasonably available to control, prevent and otherwise minimize air/noise pollution.

A. Noise and Air Pollution

1. All works will be carried out without unreasonable noise and air pollution. Subject and without prejudice to any other provision of the Contract and the law of the land and its obligation as applicable, the Contractor will take all precautions outlined in the EMP to avoid the air and noise pollution.
2. The Contractor shall monitor the environmental parameters periodically as specified in the monitoring plan and report to the Engineer.
3. The Contractor shall indemnify and keep indemnified the Employer from and against any liability for damages on account of noise or other disturbance created while carrying out the work, and from and against all claims, demands, proceedings, damages, costs, charges, and expenses, whatsoever, in regard or in relation to such liability.

B. Occupational Health and Safety During Construction

The Contractor shall, in accordance with the safety and health provisions specified in the EMP, provide workers with a safe and healthy working environment, in the work areas, through application of preventive and protective measures consistent with international good practice, as reflected in internationally recognized standards such as the World Bank Group's Environment, Health and Safety Guidelines. The borrower/client will take steps to prevent accidents, injury, and disease arising from, associated with, or occurring during the course of work by:

- a) providing preventive and protective measures, including modification, substitution, or elimination of hazardous conditions or substances;
- b) providing appropriate equipment to minimize risks and requiring and enforcing its use;
- c) training workers and providing them with appropriate incentives to use and comply with health and safety procedures and protective equipment;

- d) documenting and reporting occupational accidents, diseases, and incidents; and
- e) having emergency prevention, preparedness, and response arrangements in place.

C. Post-Construction Clearance

1. On completion of work, wherever applicable, the Contractor shall clear away and remove from the sites all constructional plant, surplus materials, rubbish, scaffoldings, and temporary works of every kind and leave the whole of the sites and works in a clean condition. The handing over of the sites shall be done only after an inspection of the site and a written clearance by the Environmental specialist of the PMDSC.
2. Construction camp sites post construction shall be cleared as specified in the EMP and handed over to the Owner. It will be ensured by the contractor that the site handed over is in line with the conditions of temporary acquisition signed by both parties.