Environmental Codes of Practice for Construction

IPTD2 Substation upgrades, extensions and developments

How to use the COP

The following specifications must be included in both the bidding documents and construction contracts under the Indonesia Second Power Transmission Development Project (IPTD2). The specifications will become contractual obligations for Contractors and can be enforced by PLN.

1 Environmental Duties of Contractor
   a. Compliance with all relevant legislative requirements in Indonesia;
   b. Implement the EMP for the duration of the construction period;
   c. Undertake monitoring of the effectiveness of the implementation of the EMP and keep records;
   d. Report the monitoring records to PLN Project office;
   e. Employ and train suitably qualified staff to take responsibility for the EMP;
   f. Comply with the Chance Find Procedures for Physical Cultural Resources; and
   g. Stop construction activities upon receiving instructions from the PLN Project Office, and propose and carry out corrective actions and implement alternative construction method, if required, in order to minimize the environmental impacts.

2 Prohibitions
   a. Cutting of trees for any reason outside the approved construction area;
   b. Disturbance to anything with architectural or historical value;
   c. Indiscriminate disposal of rubbish or construction wastes or rubble;
   d. Spillage of potential pollutants, such as petroleum products; and
   e. Burning of wastes and/or cleared vegetation.

3 Dust
   a. Use water as often as required to dampen dusty areas during windy conditions.

4 Noise
   a. Construction activities shall be scheduled in daytime only (8am to 6pm).
   b. Any work that must be carried out after hours shall be notified to the community at least one week in advance.

5 Waste Management
   a. Establish and enforce daily site clean-up procedures, including maintenance of adequate storage, recycling and disposal facilities for litter, solid waste, soil and construction debris.
   b. All solid waste that cannot be recycled shall be transported by an approved waste handler, disposed of offsite at an approved / licensed disposal site.
   c. Waste oil and other hazardous wastes (including contaminated soil and oil spills) shall be stored under cover and separated from other wastes. They shall be removed by a licensed transporter to a licensed disposal facility.
d. Once the job is completed, all construction-generated debris should be removed from the site.

6 PCB
   a. Confirm that new equipment does not contain PCB.
   b. Confirm, prior to disposal, that old equipment does not contain PCB.

7 Oil spills and contamination
   a. Maintain vehicles and equipment to prevent leaks and spills.
   b. Keep spill kits on site and have staff trained to use them.
   c. The transfer of transformer oil shall be undertaken as per PLN Standard Operating Procedures and Indonesian regulations.

8 Worker Health and Safety
   d. The contractor will comply with all Indonesian regulations and PLN Standard Operating Procedures for worker exposure to EMF.
   e. All staff will be provided with suitable personal protective equipment (i.e., hard hats and high visibility clothing).

9 Clearing of New Sites
   a. Land clearance should only begin once all LARAP procedures have been completed;
   b. Before clearing of vegetation, ensure that all litter and non-organic material is removed from the area to be cleared;
   c. Stockpile and protect topsoil for reuse in site rehabilitation;
   d. The application of chemicals for vegetation clearing shall be avoided.

10 Erosion and Sediment Management
   a. Disturb as little ground area as possible and stabilize that area as quickly as possible.
   b. Direct stormwater around the work site using temporary drains.
   c. Installsediment control structures where needed to slow or redirect runoff and trap sediment until vegetation is established. Sediment control structures include sediment catchment basins, straw bales, brush fences, and fabric silt fences; and
   d. In areas where construction activities have been completed and where no further disturbance would take place, re-vegetation should commence as soon as possible.

11 Re-Vegetation and Site Restoration
   a. The construction site and surrounds shall be landscaped and any necessary remedial works shall be undertaken without delay, to the satisfaction of PLN.