

Environmental Monitoring Plan for single terminal during Construction Phase

Environmental component	Parameters to be monitored	Location	Frequency	Responsible Agency	
				Implemented By	Supervised By
Ambient Air Quality	PM10, PM2.5, SOx, NOx, CO	Terminal Site & Along the stretch	1 sample/ location/ Quarter (i.e.,4 Samples/Year)	Contractor	Construction supervisor
Noise	Leq dB (A) (Day and Night) Average and Peak values	Terminal sites & Underwater noise monitoring	2 Samples/ location/season (i.e. 6 Samples/Year)	Contractor	Construction supervisor
Water Quality (Drinking water)	pH, temperature, DO, BOD, COD, Oil & Grease, Total Suspended Solid, turbidity, Total Hardness, Chlorine, Iron, As, Total Coliform	Labour camp / Base camp	3 sample/location/ quarterly	Contractor through a nationally recognized laboratory Contractor through a nationally recognized laboratory	Construction supervisor External Monitor Construction supervisor
Water Quality (Surface Water)	pH, temperature, DO, BOD, COD, Oil & Grease, Total Suspended Solid, turbidity, Total Hardness, Chlorine, Iron, As, Total Coliform	At terminal site	3 Samples/ Location/Year (i.e., Sample to be collected for three seasons (Pre-monsoon, monsoon & post monsoon or winter) at each location).	AIWTDS through a NABL Accredited laboratory	AIWTDS
Water Quality (Ground Water)	pH, temperature, DO, BOD, COD, Oil & Grease, Total Suspended	At terminal site	3 Samples/ Location/Year (i.e., Sample to be collected for three seasons (Pre-monsoon,		

	Solid, turbidity, Total Hardness, Chlorine, Iron, As, Total Coliform		monsoon & post monsoon or winter) at each location).		
Soil Quality	Pb, Cd, Cr, Cu, Zn, Mn, As, Se, Hg, PCBs, POPs, and hydrocarbons	At terminal site	3 Samples/ Location/Year (i.e., Sample to be collected for three seasons (Pre-monsoon, monsoon & post monsoon or winter) at each location).	Contractor	Construction supervisor
Ecology & Biodiversity	The practices mentioned in ecology management plan are to be followed.	At terminal site	Once in Six months.	Construction supervisor	AIWTDS
River Bed Sediments	PCBs, POPs, Hydrocarbons, Heavy Metals (Lead Arsenic, Cadmium Mercury)	At terminal site	4 Samples/ Location/Year (i.e., Sample to be collected for three seasons (Pre-monsoon, monsoon & post monsoon or winter) at each location).	Contractor	AIWTDS
Waste Mangement		At all locations	Daily	Contractor	AIWTDS
Grievances	Maintaing Registrar	At all locations	Daily	AIWTDS	