

(3) Thailand EIA projects list

Type of projects or activities	Sizes
<p>1. Mining defined by the Mineral Act</p> <p>1.1 Mining projects as follow:</p> <p>1.1.1 Coal Mining</p> <p>1.1.2 Potash Mining</p> <p>1.1.3 Rock Salt Mining</p> <p>1.1.4 Limestone Mining for cement industry</p> <p>1.1.5 All Metal Mining</p> <p>1.2 Underground Mining Projects</p> <p>1.3 All Mining Projects located in the following areas</p> <p>1.3.1 Class 1 Watershed area according to cabinet resolution</p> <p>1.3.2 Sea</p> <p>1.3.3 Conservation Forests added by cabinet resolution</p> <p>1.3.4 RAMSAR Sites</p> <p>1.3.5 Areas located next to Ancient Remains, Archaeological Resources, Historical Sources or Parks regulated by Ancient Monuments, Antiques and National Museum Act or World Heritage Sites inscribed in World Heritage List according to World Heritage Convention within 2 kilometer distance</p> <p>1.4 Mining Projects with explosive materials</p> <p>1.5 Other mining projects than those specified in 1.1 to 1.4 except the following mining projects:</p> <p>1) Glass sand or silica sand mining</p> <p>2) Cement clay mining</p> <p>3) Stained clay mining</p> <p>4) Marl Mining</p> <p>5) Ball clay mining</p> <p>6) Diatomite mining</p>	<p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p> <p>All sizes</p>
<p>2. Petroleum Industry</p> <p>2.1 Petroleum Exploration by means of geophysical drill</p> <p>2.2 Petroleum Production Industry</p>	<p>All sizes</p> <p>All sizes</p>
<p>3. Petroleum and fuel pipeline transportation system, except:</p> <p>3.1 Onshore natural gas pipeline transportation system of which a maximum operating pressure is less than or equal to twenty bars and a pipeline diameter is less than or equal to sixteen inches for the entire project, in any area, except for the areas where the Cabinet resolution or the specific laws specify otherwise;</p> <p>3.2 Onshore natural gas pipeline transportation system of which a maximum operating pressure is more than twenty bars or a pipeline diameter is more than sixteen inches, which is entirely located in an industrial estate under the laws on Industrial Estate Authority of Thailand.</p>	<p>All sizes</p>
<p>4. Industrial Estate as defined by the Industrial Estate Authority of</p>	<p>All sizes</p>

Thailand Act or Projects with identical feature or Land Allocation project for Industrial development	
5. Petrochemical Industry using chemical process in production	Productivity is 100 tons/day or more
6. Petroleum Refining Industry	All sizes
7. Natural Gas Separation Industry or Natural Gas Reforming Industry	All sizes
8. Chlor-alkali industry and industry using chlorine (Cl ₂) or hydrogen chloride (HCl) as follows; 8.1 Chlor-alkali industry using sodium chloride (NaCl) as a raw material for the production of chlorine (Cl ₂), sodium hydroxide (NaOH), sodium hypochlorite (NaOCl), hydrochloric acid (HCl), sodium carbonate (Na ₂ CO ₃) and bleaching powder; 8.2 Industry using chlorine or hydrogen chloride as a raw material for the production of sodium hypochlorite (NaOCl), hydrochloric acid (HCl), sodium carbonate (Na ₂ CO ₃) and bleaching powder.	Productivity each or total products are 100 tons/day or more
9. Cement industry	All sizes
10. Pulp Industry	Productivity is 50 tons/day or more
11. Pesticide Industry or industry producing active ingredient by chemical process	All sizes
12. Chemical Fertilizer Industry using chemical process	All sizes
13. Sugar industry 13.1 Producing raw sugar, white sugar, and refine sugar 13.2 Producing Glucose, Dextrose, Fructose or other products alike	All sizes Productivity is 20 tons/day or more
14. Iron or Steel industry	Productivity is 100 tons/day or more
15. Mineral Smelting Industry, Mineral Dressing Industry or Metal Melting Industry except Iron or Steel	Productivity is 50 tons/day or more
16. Liquor and Alcohol Industries including beer and wine 16.1 Liquor and Alcohol Industries 16.2 Wine Industry 16.3 Beer Industry	Productivity is 40,000 liter/month or more (calculated at 28 degrees) Productivity is 600,000 liter/month or more Productivity is 600,000 liter/month or more
17. Central Waste Treatment Plant defined by the Factory Act	All sizes
18. All types of thermal power plants, except waste-to-energy plants Waste-to-energy plants that are exempted shall not be located in the following areas: 1) Class 1 or Class 2 Watershed Area designated by the Cabinet resolution; 2) Environmentally protected area under the Notification of Ministry of Natural Resources and Environment; 3) Conservation forest area under the Cabinet resolution;	Productivity of electricity is 10 MW or more

4) Ramsar Site designated by the Cabinet resolution; 5) Area where air pollution level exceeds 80 percent of the National Ambient Air Quality Standard.	
19. Expressway as defined by the Expressway and rapid Transit Authority of Thailand Act or other projects alike	All sizes
20. Highway or road which defined by the Highway Act, passing through the following areas: 20.1 Wildlife sanctuaries and Wildlife non-hunting area defined by Wildlife Conservation and Protection Act 20.2 National Park which defined by National Park Act 20.3 Watershed area classified as class 2 by the cabinet resolution 20.4 Mangrove forests designated as National Forest Reserve 20.5 Coastal area within 50 meters of the highest sea level by nature 20.6 Areas located next to RAMSAR sites or World Heritage Sites inscribed in World Heritage List according to World Heritage Convention within 2 kilometer distance 20.7 Areas located next to Ancient Remains, Archaeological Resources, Historical Sources or Parks regulated by Ancient Monument, Antiques and National Museum Act within 1 kilometer distance except city/town road under Town Planning Act.	All sizes All sizes All sizes All sizes All sizes All sizes All sizes
21. Rail-Type Mass Transit System	All sizes
22. Port	With capacity of vessels for 500 gross tons or more. Or with the total length of the front part is 100 meters or more. Or with the total port area is 1,000 square meter or more.
23. Recreational Port	With capacity of 50 vessels or more
24. Land Reclamation	All sizes
25. Construction or Expansion of Structures close to or in the sea 25.1 Seawall next to coastline 25.2 Groin, Training Jetty, Training Wall 25.3 Offshore Breakwater	The total length is 200 meters or more All sizes All sizes
26. Aviation Transportation System 26.1 Construction or Expansion of commercial airport or temporary take-off of landing strips for commercial purposes 26.2 Water Airport	The runway length is 1,100 meters or more All sizes

<p>27. Building which defined by the Building Central Act that has location or building utilization as follow:</p> <p>27.1 Building that located near rivers, seacoast, lakes or beaches or in the vicinity or inside National Parks or Historical Parks which may potentially cause unpleasant impact to environmental quality</p> <p>27.2 Building used for wholesale or retail business</p> <p>27.3 Building used as private office</p>	<p>With 23 meter height or more. Or the total floor area or individual area in the same building is equal to 10,000 square meters or more</p> <p>With 23 meter height or more. Or the total floor area or individual area in the same building is equal to 10,000 square meters or more.</p> <p>With 23 meter height or more. Or the total floor area or individual area in the same building is equal to 10,000 square meters or more</p>
28. Land Allocation for residential or commercial purposes which defined by the Land Allocation Act	500 plots of land or more. Or total allocated area is more than 100 Rai (16 hectares)
<p>29. Hospitals or Nursing Homes that defined by the Medical Services Act located in the following areas</p> <p>29.1 Areas are near rivers, seacoast, lake or beaches within 50 meters distance</p> <p>29.2 Other areas from 29.1</p>	<p>Total 30 inpatients bed or more</p> <p>Total 60 inpatients bed or more</p>
30. Hotel or Resort which defined by the Hotel Act	Total 80 rooms or more or total utilization area is 4,000 square meters or more
31. Residential Building which defined by the Building Control Act	With 80 rooms or more. Or total utilization area is 4,000 square meters or more
32. Irrigation	Irrigated area of 80,000 Rai (12,800 hectares) or more
33. All projects located in the areas classified as Class 1 watershed area by the cabinet resolution	All size
<p>34. Trans Watershed Diversion</p> <p>34.1 Trans major watershed diversion as temporality operated except for disaster or impact to public security</p> <p>34.2 International trans watershed diversion as temporality operated except for disaster or impact to public security</p>	<p>All sizes</p> <p>All sizes</p>
35. Sluiceway in the Major River	All sizes

Based on the Assessing Environmental Impact Assessment (EIA) in Thailand: Implementation Challenges and Opportunities for Sustainable Development Planning, Asian Environmental Compliance and Enforcement Network (AECEN) Working Paper by Supat Wangwongwatana et. al in 2015 and updated survey information conducted by Wangwongwatana in 2018 as part of work commissioned by the Ministry of the Environment, Japan in 2017.