

**(3) Lao PDR EIA projects list**

<b>Type of Investment Projects and Activities</b>		<b>Group 1 Shall prepare IEE</b>	<b>Group 2 Shall prepare EIA</b>
<b>I. Investment Projects and Activities in Energy Sector</b>			
	<b>Power development</b>		
1.1	Electricity generation by Hydro power (Hydropower plants construction)	(a) 1 - 15 MW (installed capacity) or (b) reservoir volume capacity <2 million m <sup>3</sup> or (c) reservoir area < 1, 500ha	(a) ≥ 15 MW (installed capacity) or (b) reservoir volume capacity (full supply level) ≥ 2 million m <sup>3</sup> or (c) reservoir area ≥ 1,500 ha
1.2	Nuclear power plant project, nuclear waste management and disposal		All
1.3	Natural gas or bio gas power plant project	5-50MW	> 50 MW
1.4	Wind power generation	2-10 units	> 10 units
1.5	Coal, oil or biomass power plant project	≤ 10 MW	> 10 MW
	<b>Gas and petroleum power generation development</b>		
1.6	Petroleum and gas transmission pipeline		All
1.7	Extraction of oil or natural gas		All

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1.8	Oil refinery		All
1.9	Petroleum storage facilities	5,000 – 50,000 m <sup>3</sup>	>50,000 m <sup>3</sup>
	<b>High Voltage transmission line development</b>		
1.10	High voltage transmission line		
1.10.1	High voltage transmission line ≥230 kv	≤ 15 km	> 15 km
1.10.2	High voltage transmission line <230 kv	All	
1.11	High voltage power distribution station	<10 ha	≥ 10 ha
<b>II. Investment Projects and Activities in Agricultural and Forestry Sector</b>			
Tree plantation and crop growing			
2.1	Planting and cutting industrial trees plantation	20-200 ha	>200 ha
2.2	Industrial crops growing	20 – 400 ha	>400 ha
Livestock and fisheries			
2.3	Livestock raising such as: cattle, buffalo, horse and others	>500 heads	
2.4	Poultry raising	≥5000 chicks	

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2.5	Pig raising	$\geq 500$ heads	
2.6	Fish and aquatic species culture in industrial ponds	$\geq 10$ ha	
2.7	Fish and aquatic species culture in cages along the river	$\geq 300$ m <sup>2</sup>	
2.8	Crocodile raising	$\geq 100$ heads	
<b>III. Investment Projects and Activities in the Industrial Food Processing Sector</b>			
<b>Industrial Food Processing</b>			
3.1	Production, processing and storage of foods (Meats, fish, fruits, cooking oils, animals and animal feeds)	$\leq 1$ ton/day	$> 1$ ton/day
3.2	Milk processing factory	$\leq 40$ tons/day	$> 40$ tons /day
3.3	Tapioca and tapioca products processing factory	40 – 80 tons/day	$> 80$ tons /day
3.4	Sugar processing factory	$\leq 30$ tons/day	$> 30$ tons /day
3.5	Alcohol processing factory	$\leq 500,000$ little/day	$> 500,000$ little/day

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3.6	Drinking water processing factory	All	
3.7	Tobacco production factory	All	
<b>Textile, Pulp Paper, and wood products Industry</b>			
3.8	Textile , fabric and clothes making and dyeing factory	All	
3.9	Leather soaking and tanning factory	All	
3.10	Leather processing factory	≤ 1 million pieces/year	>1 million pieces/year
3.11	Rattan product processing and bamboo materials for weaving factory	All	
3.12	Plywood processing factory	≤100,000 m <sup>2</sup> /year	>100,000 m <sup>2</sup> /year
3.13	Paper processing factory	≤30 tons/day	>30 tons/day
3.14	Printing factory	All	
<b>Chemical Product Industry and Medical Equipment</b>			

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3.15	Petroleum and hydrocarbon factory		All
3.16	Chemical products production factory		All
3.17	Medical equipment and pharmaceutical product factory using chemical reaction and bio-chemicals		All
3.18	Cleaning products, polishing and making up equipment factory	≤10 tons/day	>10 tons/day
3.19	Rubber processing factory	50 – 200 tons/year	>200 tons/year
3.20	Plastic product production factory	<400 tons/year	>400 tons/year
Mineral product production industry with no heavy metal			
3.21	Glass and products from glass production factory	All	
3.22	Mineral product production factory with no other heavy metals	All	
3.23	Cement , lime and plaster processing factory	≤20 tons/hour	>20 tons/hour

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Metallurgic Industry (Extraction of metal from minerals )			
3.24	Steel and iron smelting factory	<5000 tons/year	>5000 tons/year
3.25	Initial metal and non-ferrous metal processing factory		All
3.26	Metal processing factory	≤50 tons/day	>50 tons/day
3.27	Non-ferrous metal processing factory	All	
3.28	Steel products, tanks and iron tubs	All	
3.29	Backup battery processing factory	All	
Other industries			
3.30	Home appliances, office equipments, and electrical tools processing factory	All	
3.31	Automotive battery and alkaline battery factory	≤70 tons/year	>70 tons/year
3.32	Spare parts, automobile parts and related machines factory	≤1,000 tons/year	>1,000 tons/year

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3.33	Bicycle and disabled wheelchair making factory	≤10,000 units/year	>10,000 units/year
3.34	Home appliances production factory	≤10,000 units/year	>10,000 units/year
3.35	Water supply processing factory	All	
<b>Waste management</b>			
3.36	Disposal of non-hazardous waste	≤5,000 tons/year	>5,000 tons/year
3.37	Disposal of hazardous waste		All
3.38	Hazardous waste minimization		All
3.39	Other waste treatment and management		All
3.40	Construction of factory for recycling		All
3.41	Construction of waste incinerator and treatment factory		All
3.42	Waste water treatment plant of the City	≤5,000 persons	>5,000 persons
3.43	Industrial waste water treatment plant		All
3.44	Construction of sewage drainage	All	

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IV. Investment projects and activities in the infrastructure and service sector			
4.1	Soil filling on lakes, rivers, channels causing impacts to the public		All
4.2	Construction of dormitory and relocation village	> 50 rooms	
4.3	Golf field construction		All
4.4	Construction of sport complex stadium		All
4.5	Construction of hotel and recreation area	≤80 rooms	>80 rooms
4.6	Construction of complex hotel	≤50 ha	>50 ha
4.7	Tourism and recreation areas development in critically social and environmental aspects		All
4.8	Special and specific economic zones construction and development		All
4.9	Construction of the hospital	≤80 beds	> 80 beds
4.10	Railway construction		All
4.11	Construction of new roads (National, provincial, district, rural and special roads).		All



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4.12	Rehabilitation of national, provincial, district, rural and special roads.	All	
4.13	Airport construction		All
4.14	Construction of the telecommunication network	All	
4.15	Navigation (Improvement of navigation channel along rivers)	≤200 tons	>200 tons
4.16	Port construction		
4.16.1	Port for public transport	≤500 tons (not include the weight of the vessel)	>500 tons (not include the weight of the vessel)
4.16.2	Port for transporting the general goods	≤500 tons (not include the weight of the vessel)	>500 tons (not include the weight of the vessel)
4.16.3	Port for transporting the hazardous goods		All
4.17	Construction of embankment	≤ 1 kilometer	> 1 kilometer
V. Investment projects and activities in the minerals sector			
Mineral extraction and processing			
5.1	Extraction of gravel, sand in rivers	1,000 – 5,000 m <sup>3</sup> /day	> 5,000 m <sup>3</sup> /day
5.2	Rock drilling and transportation	≤ 50 tons/day	> 50 tons/day

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5.3	Extraction of construction materials (soil, gravel, sand) on the ground	$\leq 100,000 \text{ m}^3/\text{year}$ or area $\leq 20 \text{ ha}$	$> 100,000 \text{ m}^3/\text{year}$ or area $> 20 \text{ ha}$
5.4	Extraction of solid minerals (without using chemicals)		All
5.5	Minerals extraction and processing using hazardous chemicals		All
5.6	Solid minerals processing	$\leq 50,000 \text{ tons/year}$	$> 50,000 \text{ tons/year}$
Water management and administration			
5.7	Extraction and using of groundwater for consumption in industry, agriculture and the city.	$500 - 5,000 \text{ m}^3/\text{day}$	$> 5,000 \text{ m}^3/\text{day}$
5.8	Construction of reservoir and dams	$1\text{-}200 \text{ million m}^3$ or height of dam $\leq 10\text{m}$	$> 200 \text{ million m}^3$ or height of dam $> 10\text{m}$

Ministry of Natural Resources and Environment, Ministerial Agreement on  
Endorsement and Promulgation of a List of Investment Projects and Activities Requiring for  
Conducting Initial Environmental Examination or Environmental Impact Assessment