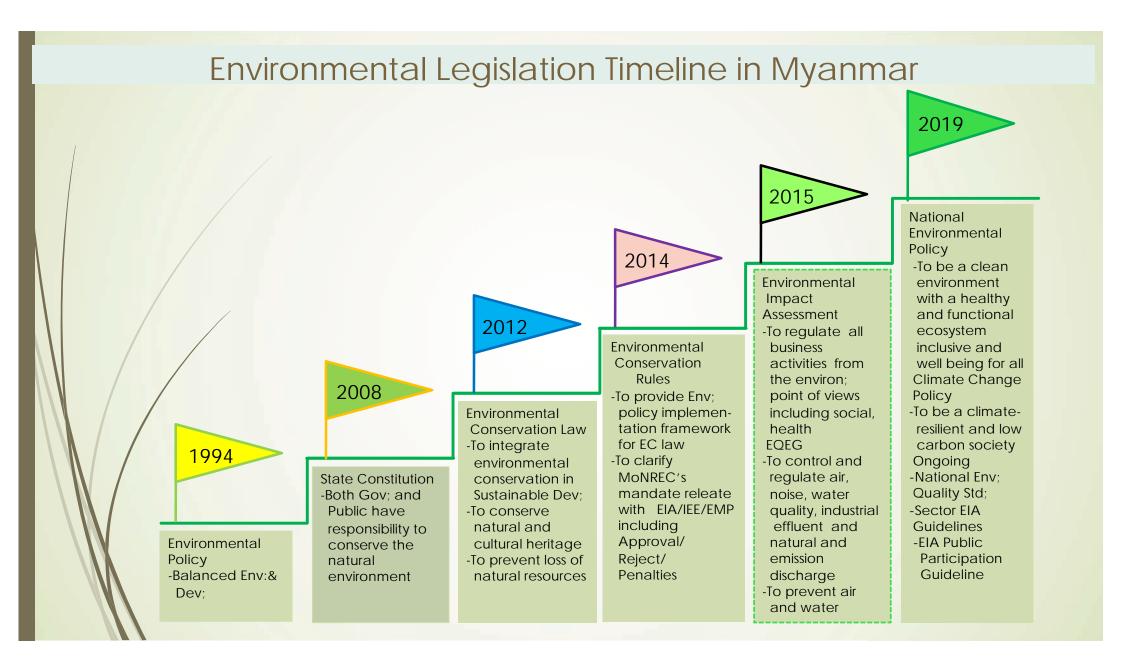
ASEAN & BIMSTEC Workshop on Deep Seabed Resources and The Blue Economy Strengthening National Capacities for Coastal and Seabed Mineral Development Coastal and Seabed Management in ElA Hla Hla Htwe 10.9.2 **Deputy Director** Hotel **Environmental Conservatio**

Contents

Environmental Legislation Timeline in Myanmar

- Myanmar EIA System
- Management of Coastal and Seabed
- Conclusion and Suggestion



• Proposed projects may be legally required to undergo an EIA or IEE depending on the project type and size, and as specified in the EIA Procedure.

• At its discretion, Ministry can also require existing projects to undergo EIA or IEE or EMP.

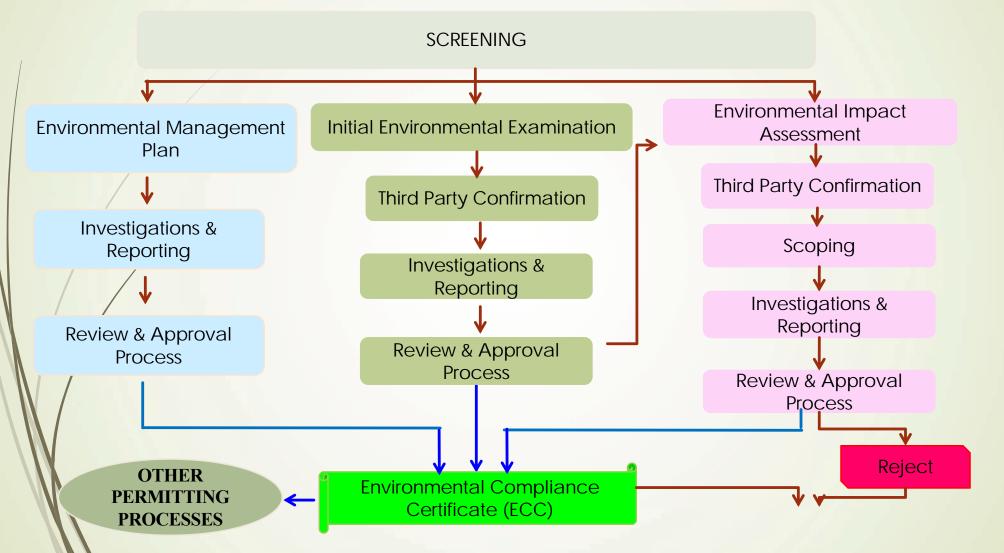
• EIA reports must include an assessment of the environmental risks and the identification of appropriate mitigation and monitoring measures.

• EIA reports must also have an environmental management plan to specify how these measures will be actioned.

• Following a review of the EIA report, if comply with EIA procedure, Ministry will approve the project by issuing an Environmental Compliance Certificate.

• Approved projects must then submit EIA monitoring reports to Ministry every 6 months.

• Ministry has the mandate to apply financial penalties or halt projects for projects that repeatedly fail EIA compliance.



Assessment Categories for Sea Business

	No.	Type of Economic Activity	IEE	EIA
	1	Offshore Oil and Gas Seismic Surveys	All Sizes	
	2	Offshore Oil and Gas Exploration Drillings		All Sizes
	3	Offshore Oil and Gas Production drilling and production activities; offshore pipeline operations, offshore transportation, compressor stations and storage facilities; ancillary and support operations; and decommissioning		All Sizes
	4	Marine and Coastal Fish Raising and Aquaculture	Total water surface ≥ 1 ha but < 100 ha	Total water surface ≥ 100 ha
	5	Oyster Raising and Pearl Production	≥ 50 ha but < 200 ha	≥ 200 ha
	6	Extraction of Rock, Gravel or Sand from a River or Marine Waters	≥ 1,000 m3/a but < 50,000 m3/a	≥ 50,000 m3/a

EIA Review Process

Initial review by ECD

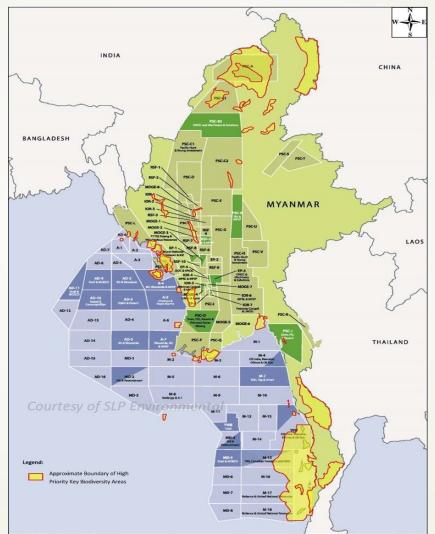
• Submission of report on initial review to RT (RT consists of 39 members from relevant ministries and academic institutions)

- Meeting (RT, Proponent, EIA consultancy firms)
- Site visit (if required)
- Provide comments on EIA report to the Proponent
- Revise EIA reports based on the comments and submit them to ECD
- Meeting (RT, Proponents, EIA Consultancy firms)
- If satisfied, Submit to National Environmental Conservation Committee and issue ECC & if unsatisfied repeats step 5,6,7

Guidance for Offshore Business Activities

- Key Biodiversity Areas (KBAs) or sensitive areas (require an EIA)
- Baseline surveys/data focus on ecologically important habitats
- Offshore Oil and Gas Development> IFC EHS guidelines for offshore oil and gas development (IFC 2007 and 2015)
- Risk of disturbance >JNCC (2017)
- Biodiversity Conservation > IFC Performance Standard 6

Key Biodiversity Area for Oil and Gas Business



Sensitive Areas near Block MD-7



Physical Components Geography and Oceanography; Climate and Meteorology; Geology; Seawater Quality; and Sediment

> Biological Components Marine Fishes; Plankton; Benthos; Seabirds; Marine Mammals; Sea Turtles; Sensitive Ecosystems; and Protected Areas

Impacts of Oil and Gas Activities

	Seismic	Exploration	Production
Air Pollution	\checkmark	\checkmark	\checkmark
Noise and Vibration	\checkmark		\checkmark
Water Resources	\checkmark	\checkmark	\checkmark
Waste Water	\checkmark	\checkmark	
Solid Waste	\checkmark	\checkmark	\checkmark
Hazardous Waste		\checkmark	\checkmark
Biodiversity	\checkmark	\checkmark	\checkmark
Marine Mammals and other noise sensitive species	\checkmark	\checkmark	\checkmark
Fisheries		\checkmark	
Greenhouse Gas Emission		\checkmark	
Accident	\checkmark	\checkmark	\checkmark
Health			\checkmark
Traffic			\checkmark

Impacts and Mitigation Measures for Oil and Gas Activities

Rig Mobilization		Impacts		bility
and Installation	-Discharge of Oil containing water, waste water, sewage - Rig placement	Impact to sea water quality	 Operate project vessels with MARPOL 73/78 Wastewater treatment Lay anchors directly to seabed without dredging 	Project Proponent
Well Drilling	-Discharge of mud and cutting - Discharge of Oil containing wastewater	Impacts to sea water and sediment quality, seabed characteristic , marine ecology	 Optimize drilling design Water Based Mud Synthetic Based Mud OCC discharge with standard MARPOL73/78 Prior Treatment and discharge more than 12 nautical from nearest shore 	Project Proponent

Environment Management Plans for Offshore Oil and Gas Business

- Emergency Response Plan (ERP)
- ✤ Waste Management Plan
- ✤ Oil Spill Response Plan (OSRP)
- ✤ Ballast Water Management Plan
- Drill Cuttings and Fluid Management

Monitoring

Project proponent shall monitor the factors as below -

- ROV Images of Seabed
- Water Quality
- Marine Fauna
- Plankton
- Benthic Communities
- Sediment sampling
- Water Disposal
- Drill Cuttings
- Chemical

Relevant Legislation

Project proponent shall follow the laws/Rules/conventions as below -

- The Protection of Wildlife, And Wild Plant and Conservation of Natural Areas Rules (2002)
- Meinmahla Kyun Wilsanctuarydlife (Noti; no.91/1993)
- Thameehla Island (Noti; no. 289/1970)
- Longlone Bok Island (Noti; no.243/1927)
- Lampi island (2004)
- Ross Island (2004)
- The Myanmar Marine Fishries Law (9/90)
- > Myanmar Territorial Sea and Maritime Zones Law (14/2017)
- The ASEAN Marine Water Quality Criteria, 2002
- International Convention on the Protection of Pollution from Ship London (MARPOL) 1973, 1978
- United Nations Convention on Law of the Sea
- Mov on conservation on Wetlands of International Important especially as Waterfowl Habitat (1987)
- IUCN Red List of Threatened Species

Conclusion and Suggestion

- Capital Investment is high
- Technology
- Environmental Impacts
 - Awareness to Authorities and Investors
 - Strengthening the institutional framework

