

**Maritime Environmental Protection in Pakistan: A Critical
Appraisal of Domestic Laws and International Best Practices**



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DEDICATION

“To the joy of creation, a resilient force during times of uncertainty, propelling me onward
when perseverance faltered.”

ABSTRACT

Maritime pollution is a significant concern to Pakistan's maritime zones, adversely impacting both the marine habitat and human well-being. The pollution in Pakistan's oceans originates from dumping of untreated waste, oily waste, garbage, oil spills, dumping of plastics, lost or abandoned ship equipment etc resulting in destruction of marine ecosystems. Pakistan struggles with environmental degradation due to widespread pollution practices. This thesis analyses the contemporary domestic legislature associated with maritime pollution in Pakistan along with examining challenges and puts forward recommendations for countering its adverse effects. It discusses the approaches used by countries like Norway, Denmark, Singapore, Netherlands, Canada and how these can be implemented within Pakistan. In order to mitigate the issues arising from maritime pollution, this research proposes the use of legislative measures, public awareness campaigns, technological advancements and compliance with international standards.

LIST OF ABBREVIATIONS

AFS	International Convention on the Control of Harmful Anti-fouling Systems on Ships, 2001
BWM	International Convention for the Control and Management of Ships' Ballast Water and Sediments 2004
COLREG	Convention on the International Regulations for Preventing Collisions at Sea, 1972
EEDI	Energy Efficiency Design Index
EIA	Environmental Impact Assessment
EIS	Environmental Impact Statement
IEE	Initial Environmental Examination
IMO	International Maritime Organization
ISA	International Seabed Authority
ITLOS	International Tribunal for the Law of the Sea
MARPOL	International Convention for the Prevention of Pollution from Ships 1973
MEAs	Multilateral Environmental Agreements
MEPC	Marine Environment Protection Committee
MSO	Pakistan Merchant Shipping Ordinance, 2001
NEQs	National Environmental Quality Standards
NIS	Non-Indigenous Species
NMP	National Maritime Policy
OILPOL	International Convention for the Prevention of Pollution of the Sea by Oil of 1954
ORPC	International Convention on Oil Pollution Preparedness, Response and Co-operation, 1990
Pak-EPA	Pakistan Environmental Protection Agency
PEPA	Pakistan Environment Protection Act, 1997
PEPC	Pakistan Environmental Protection Council
PEPO	Pakistan Environment Protection Ordinance, 1983
PM	Particulate Matter
SDGs	Sustainable Development Goals

SEEMP	Ship Energy Efficiency Management Plan
SOLAS	International Convention for the Safety of Life at Sea
STCW	The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers 1978
TBT	Tributyltin
UNCLOS	United Nations Convention on the Law of Seas

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