



The role of the state in providing public services for the utilization of marine resources



Abstract

Author keywords

Sustainable Development Goals 2021

SciVal Topics

Metrics

Abstract

This paper aims to describe the role of the state in carrying out its public services for the utilization of natural resources by using the outlook of Indonesian philosophical insight of Pancasila in managing archipelagic state. This paper was conducted by using normative juridical approach to describe national management of marine resources. The management of marine resources is carried out through a legal framework to provide legal certainty and benefits for all communities as an archipelagic country characterized by an archipelago. The findings highlight that policies to maintain and manage marine natural resources, which will then be written about marine resources, must provide legal certainty and benefit value. The main contribution of this research is to explain the intersection of interests between uses within the national scope and at the same time containing the interests of use within the scope for the international community. This paper qualitatively examines the role of state as the main public service provider in administering institutions, corporations, independent institutions established by law for public service activities, and other legal entities established solely for public service activities in the context of utilization of marine resource. Empirical relationship between public sector performance and marine resource utilization was not tested in this study. The results encourage the state to maintain the integration of the nation and state both ideologically and territorially by realizing reliable public service through the improvement of utilizing marine resource as a means of increasing people welfare, especially in an archipelagic state such as Indonesia. The description is in relation to the role of the state in implementing public services in the utilization of marine resources in an archipelagic country based on national insight. © 2021 by authors, all rights reserved.

Author keywords

Indonesia; Marine Resource; Pancasila; Public Service; State Role

Sustainable Development Goals 2021 ①

New

Cited by 1 document

The responsibility of private pawnshops in facilitating ecologically-friendly marine economies

Badriyah, S.M., Mahmudah, S., Soemarmi, A.

(2021) Environment and Ecology Research

View details of this citation

Inform me when this document is cited in Scopus:

Set citation alert >

Related documents

Recovery policy and proper management of mangrove forests to preserve environmental sustainability and ecotourism in bangkalan Indonesia

Turisno, B.E., Dewi, I.G.S., Mahmudah, S. (2021) Journal of Environmental Management and Tourism

Land use policy of agroforestry: Case study of protected area changes in sekaroh forest, east lombok west nusa tenggara

Aminah , Adhim, N. , Dewi, I.G.A.G.S. (2021) Environment and Ecology Research

Legal protection for North Sumatra East Coast fishermen in the indemnification of Malacca Strait oil spill

Suhaidi , Sutiarnoto , Azam, S. (2019) Journal of Legal, Ethical and Regulatory Issues

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

SciVal Topics ①



Home

Browse Journals

Resources

Online Submission

Books

About Us

Contact Us

Environment and Ecology Research

Environment and Ecology Research



Environment and Ecology Research is an international peer-reviewed journal that publishes original and high-quality research papers in all areas of environment and ecology. As an important academic exchange platform, scientists and researchers can know the most up-todate academic trends and seek valuable primary sources for reference.

ISSN: 2331-625X (Print) ISSN: 2331-6268 (Online)

Contact Us: eer.editor@hrpub.org or editor@hrpub.org Website: https://www.hrpub.org/journals/jour_info.php?id=40

Aims & Scope

The subject areas include, but are not limited to the following fields:

Behavioural Ecology

Biodiversity

Biogeography

Coastal Management

Coevolution

Community Ecology

Ecological Complexity

Ecosystem Ecology

Environmental Policy

Ethnoecology

Fisheries Management

Human Ecology

Land Management

Landscape Ecology

Molecular Ecology

Population Ecology

Silviculture

Social Ecology

Sustainability Studies

Toxicology

Wildlife Management



Journals Information

Aims & Scope

Indexing

Editorial Board

Reviewers

Guidelines

Submit Manuscript

Archive

Article Processing Charges

Call for Papers

Publication Ethics and Malpractice

Statement

Copyright

FAQs

Special Issues Information

Special Issues Guidelines

Call for Special Issues

Browse Journals Online Submission **About Us Contact Us** Home Resources Books

Environment and Ecology Research

Environment and Ecology Research



Environment and Ecology Research is an international peer-reviewed journal that publishes original and high-quality research papers in all areas of environment and ecology. As an important academic exchange platform, scientists and researchers can know the most up-todate academic trends and seek valuable primary sources for reference.

ISSN: 2331-625X (Print) ISSN: 2331-6268 (Online)

Contact Us: eer.editor@hrpub.org or editor@hrpub.org Website: https://www.hrpub.org/journals/jour info.php?id=40

Editorial Board

Editor-in-Chief

Prof. Patrick Armstrong

School of Earth and Environment, University of Western Australia, Australia

Deputy Editor-in-Chief

Prof. Franco Palla

Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), Laboratory of Biology and Biotechnology for Cultural Heritage, University of Palermo, Italy

Prof. Marwa Shalaby

Faculty of Engineering, Cairo University, Egypt

Dr. Kazutoshi Okuno

Graduate School of Life and Environmental Sciences, University of Tsukuba, Japan

Dr. Richard Kotter

Department of Geography Engineering and Environment, Northumbria University, UK

Editorial Board

Prof. Mikhail Arushanov

Research Hydrometeorological Institute, Uzbekistan

Prof. Imran Ali

Department of Chemistry, Jamia Millia Islamia(A Central University), India

Prof. Asma Wasim

Loma Linda University, USA

Prof. Zengling Ma

Zhejiang Provincial Key Lab for Subtropical Water Environment and Marine Biological Resources Protection, Faculty of Life and Environmental Sciences, Wenzhou University, China



Journals Information

Aim	s & Scope
Inde	exing
Edi	torial Board
Rev	iewers
Gui	delines
Sub	omit Manuscript
Arc	hive
Arti	cle Processing Charges
Call	for Papers
Pub	lication Ethics and Malpractice
Stat	tement
Cop	pyright
FAC	Qs

Special Issues Information

Special Issues Guidelines

Call for Special Issues

Prof. Lucas Noura Guimaraes

Madrona Law, Brazil

Prof. Chiara D'Alpaos

Department of Civil, Environmental and Architecture Engineering, University of Padova, Italy

Dr. Sylwia Myszograj

University of Zielona Gora, Poland

Dr. Jakub Kostecki

University of Zielona Gora, Poland

Dr. Konstantinos Gudulas

Technological Educational Institute of Western Macedonia, Greece

Dr. Waleed Montasser

Centre for Sustainable Wastes Management, University of Northampton, UK

Dr. Belén Fernández

Agri-Food Technology Research Institute, Spain

Dr. Raed Alkowni

An-Najah National University, Palestine

Dr. Simona Nicoara

Technical University of Cluj-Napoca, Romania

Dr. Taina Ruuskanen

University of Helsinki, Finland

Dr. Sheela Reuben

National University of Singapore, Singapore

Dr. Rares Halbac-Cotoara-Zamfir

Politehnica University of Timisoara, Romania

Dr. Amit Kumar Gorai

Jackson State University, USA

Dr. Anand Narain Singh

Department of Botany, Panjab University, India

Dr. S Mohammed Irshad

Tata Institute of Social Sciences, India

Dr. Muhammad Ansar Farooq

University of Bielefeld, Germany

Dr. Gayathri Ram Mohan

Department of Biomedical Engineering, University of Florida, USA

Dr. S. T. Tsim

Environmental Science Programme, BNU-HKBU United International College, China

Dr. Sanaz Shobeiri

Queen's University, Belfast, UK

Dr. Paolo Bonivento

Euro-Mediterranean Institute of Science and Technology, Italy

Assoc. Prof. Teodora Zecheru

Scientific Research Center for CBRN Defence and Ecology, Bucharest, Romania

Prof. Kyoungrean Kim

Department of Integrated Ocean Science, University of Science and Technology, South Korea

Home Browse Journals Resources Online Submission Books About Us Contact Us

Environment and Ecology Research

Environment and Ecology Research

Environment and Ecology Research is an international peer-reviewed journal that publishes original and high-quality research papers in all areas of environment and ecology. As an important academic exchange platform, scientists and researchers can know the most up-to-date academic trends and seek valuable primary sources for reference.

ISSN: 2331-625X (Print) ISSN: 2331-6268 (Online)

Contact Us: eer.editor@hrpub.org or editor@hrpub.org
Website: https://www.hrpub.org/journals/jour_info.php?id=40

Archive

Volume 9 2021 Vol.9 No.1 Vol.9 No.2 Vol.9 No.3 Vol.9 No.4 Vol.9 No.5 Vol.9 No.6 Volume 8 2020 Vol.8 No.1 Vol.8 No.2 Vol.8 No.3 Vol.8 No.4 Vol.7 No.5 Vol.7 No.6 Volume 7 2019 Vol.7 No.4 Vol.7 No.5 Vol.7 No.6 Vol.7 No.6 Vol.7 No.6 Vol.7 No.6 Vol.6 No.1 Vol.6 No.2 Vol.6 No.3 Vol.6 No.4 Vol.6 No.5 Vol.6 No.6 Volume 5 2017 Vol.5 No.1 Vol.5 No.2 Vol.5 No.3 Vol.5 No.4 Vol.5 No.5 Vol.5 No.6 Vol.5 No.7 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 4 2016 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.3 No.6 Vol.2 No.7 Vol.2 No.8 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.1 No.1 Vol.1						
Volume 8 2020 Vol.8 No.1 Vol.8 No.2 Vol.8 No.3 Vol.8 No.4 Volume 7 2019 Vol.7 No.1 Vol.7 No.2 Vol.7 No.3 Vol.7 No.4 Vol.7 No.5 Vol.7 No.6 Volume 6 2018 Vol.6 No.1 Vol.6 No.2 Vol.6 No.3 Vol.6 No.4 Vol.6 No.5 Vol.6 No.6 Volume 5 2017 Vol.5 No.1 Vol.5 No.2 Vol.5 No.3 Vol.5 No.4 Vol.5 No.5 Vol.5 No.6 Vol.5 No.7 Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.7 Vol.2 No.8 Vol.2 No.4 Vol.2 No.5 Vol.2 No.5 Volume 1 2013	Volume 9 20	021				
Vol.8 No.1 Vol.8 No.2 Vol.8 No.3 Vol.8 No.4 Volume 7 2019 Vol.7 No.1 Vol.7 No.2 Vol.7 No.3 Vol.7 No.4 Vol.7 No.5 Vol.7 No.6 Volume 6 2018 Vol.6 No.1 Vol.6 No.2 Vol.6 No.3 Vol.6 No.4 Vol.6 No.5 Vol.6 No.6 Volume 5 2017 Vol.5 No.1 Vol.5 No.2 Vol.5 No.3 Vol.5 No.4 Vol.5 No.5 Vol.5 No.6 Vol.5 No.7 Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Vol.9 No.1	Vol.9 No.2	Vol.9 No.3	Vol.9 No.4	Vol.9 No.5	Vol.9 No.6
Volume 7 2019 Vol.7 No.1 Vol.7 No.2 Vol.7 No.3 Vol.7 No.4 Vol.7 No.5 Vol.7 No.6 Volume 6 2018 Vol.6 No.1 Vol.6 No.2 Vol.6 No.3 Vol.6 No.4 Vol.6 No.5 Vol.6 No.6 Volume 5 2017 Vol.5 No.1 Vol.5 No.2 Vol.5 No.3 Vol.5 No.4 Vol.5 No.5 Vol.5 No.6 Vol.5 No.7 Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 8 20	020				
Vol.7 No.1	Vol.8 No.1	Vol.8 No.2	Vol.8 No.3	Vol.8 No.4		
Volume 6 2018 Vol.6 No.1 Vol.6 No.2 Vol.6 No.3 Vol.6 No.4 Vol.6 No.5 Vol.6 No.6 Volume 5 2017 Vol.5 No.1 Vol.5 No.2 Vol.5 No.3 Vol.5 No.4 Vol.5 No.5 Vol.5 No.6 Vol.5 No.7 Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 7 20	019				
Vol.6 No.1	Vol.7 No.1	Vol.7 No.2	Vol.7 No.3	Vol.7 No.4	Vol.7 No.5	Vol.7 No.6
Volume 5 2017 Vol.5 No.1 Vol.5 No.2 Vol.5 No.3 Vol.5 No.4 Vol.5 No.5 Vol.5 No.6 Vol.5 No.7 Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 6 20	018				
Vol.5 No.1	Vol.6 No.1	Vol.6 No.2	Vol.6 No.3	Vol.6 No.4	Vol.6 No.5	Vol.6 No.6
Vol.5 No.7 Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 5 20	017				
Volume 4 2016 Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Vol.5 No.1	Vol.5 No.2	Vol.5 No.3	Vol.5 No.4	Vol.5 No.5	Vol.5 No.6
Vol.4 No.1 Vol.4 No.2 Vol.4 No.3 Vol.4 No.4 Vol.4 No.5 Vol.4 No.6 Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Vol.5 No.7					
Volume 3 2015 Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 4 20	016				
Vol.3 No.1 Vol.3 No.2 Vol.3 No.3 Vol.3 No.4 Vol.3 No.5 Vol.3 No.6 Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Vol.4 No.1	Vol.4 No.2	Vol.4 No.3	Vol.4 No.4	Vol.4 No.5	Vol.4 No.6
Volume 2 2014 Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 3 20	015				
Vol.2 No.1 Vol.2 No.2 Vol.2 No.3 Vol.2 No.4 Vol.2 No.5 Vol.2 No.6 Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Vol.3 No.1	Vol.3 No.2	Vol.3 No.3	Vol.3 No.4	Vol.3 No.5	Vol.3 No.6
Vol.2 No.7 Vol.2 No.8 Volume 1 2013	Volume 2 20	014				
Volume 1 2013	Vol.2 No.1	Vol.2 No.2	Vol.2 No.3	Vol.2 No.4	Vol.2 No.5	Vol.2 No.6
	Vol.2 No.7	Vol.2 No.8				
Vol.1 No.1 Vol.1 No.2 Vol.1 No.3 Vol.1 No.4	Volume 1 20	013				
	Vol.1 No.1	Vol.1 No.2	Vol.1 No.3	Vol.1 No.4		

Vol 9(Oct, 2021) No 5

The Role of the State in Providing Public Services for the Utilization of Marine Resources

Marlina Br Purba, Lazarus Tri Setyawanta Rebala, Nanik Trihastuti [Abstract] [Full Text] [Full Article - PDF] pp. 209 - 214

DOI: 10.13189/eer.2021.090501

Deficit in Leadership Qualities Negating Efforts in Curtailing Climate Change

Rasheed Adeniyi Tiamiyu, Umar Taiwo Salman



Journals Information

Aims & Scope
Indexing
Editorial Board
Reviewers
Guidelines
Submit Manuscript
Archive
Article Processing Charges
Call for Papers
Publication Ethics and Malpractice
Statement
Copyright
FAQs

Special Issues Information

Special Issues Guidelines

Call for Special Issues

[Abstract] [Full Text] [Full Article - PDF] pp. 215 - 223

DOI: 10.13189/eer.2021.090502

A Review of Hazardous Compounds Present in Construction Waste Materials

Elamaran Manoharan, Norazli Othman, Roslina Mohammad, Shreeshivadasan Chelliapan, Siti Uzairiah Mohd Tobi

[Abstract] [Full Text] [Full Article - PDF] pp. 224 - 234

DOI: 10.13189/eer.2021.090503

The Level of Ecological and Hydrobiological Indicators in the Cheboksary Reservoir

Andrey Vladimirovich Kozlov, Nataliya Nikolaevna Koposova, Irina Pavlovna Uromova, Elena Aleksandrovna Krotova, Anna Vladimirovna Matveeva, Nadezhda Vasilevna Polyakova

[Abstract] [Full Text] [Full Article - PDF] pp. 235 - 241

DOI: 10.13189/eer.2021.090504

Geographic Information Systems Applications in the Tourism Planning of Archaeological Sites in Fatimid Cairo

Hany Ahmed Aly Ibrahim Khattab, Ramadan Ahmed Mohammed El-Sayed [Abstract] [Full Text] [Full Article - PDF] pp. 242 - 260

DOI: 10.13189/eer.2021.090505

Land Use Policy of Agroforestry: Case Study of Protected Area Changes in Sekaroh Forest, East Lombok West Nusa Tenggara

Aminah, Nur Adhim, I Gusti Ayu Gangga Santi Dewi [Abstract] [Full Text] [Full Article - PDF] pp. 261 - 270

DOI: 10.13189/eer.2021.090506

Influence of Renewable "Green" Energy on the Economic Development of the EU States

Iryna Ksonzhyk, Yuliana Lavrushchenko, Oleksiuk Marcin, Volodymyr Saienko, Buryk Zoriana

[Abstract] [Full Text] [Full Article - PDF] pp. 271 - 281

DOI: 10.13189/eer.2021.090507

Environmental Analysis Impact Reduction from Replacing a Traditional Mortar with an Earth-Fiber Plaster

Laura C. Moreno-Chimely, M. Teresa. Sánchez-Medrano, Yolanda G. Aranda-Jiménez, Eduardo Arvizu-Sanchez, Kenya Suarez-Dominguez, Edgardo J. Suarez-Dominguez [Abstract] [Full Text] [Full Article - PDF] pp. 282 - 299

DOI: 10.13189/eer.2021.090508

Economic Instrument in Environmental Management: A Case Study of Environmental Protection Tax in Vietnam

Dinh Duc Truong

[Abstract] [Full Text] [Full Article - PDF] pp. 300 - 313

DOI: 10.13189/eer.2021.090509

Home | Journals | Resources | Online Submission | Books | About Us | Contact Us Copyright © 2013-2022 Horizon Research Publishing. All rights reserved.

Environment and Ecology Research 9(5): 209-214, 2021 DOI: 10.13189/eer.2021.090501

The Role of the State in Providing Public Services for the Utilization of Marine Resources

Marlina Br Purba^{1,2}, Lazarus Tri Setvawanta Rebala¹, Nanik Trihastuti^{1,*}

¹Department of Law, Faculty of Law, Diponegoro University, Semarang, Indonesia ²Department of Law, Faculty of Law, University of Surabaya, Surabaya, Indonesia

Received June 16, 2021; Revised August 4, 2021; Accepted September 8, 2021

Cite This Paper in the following Citation Styles

(a): [1] Marlina Br Purba, Lazarus Tri Setyawanta Rebala, Nanik Trihastuti, "The Role of the State in Providing Public Services for the Utilization of Marine Resources," Environment and Ecology Research, Vol. 9, No. 5, pp. 209 - 214, 2021. DOI: 10.13189/eer.2021.090501.

(b): Marlina Br Purba, Lazarus Tri Setyawanta Rebala, Nanik Trihastuti (2021). The Role of the State in Providing Public Services for the Utilization of Marine Resources. Environment and Ecology Research, 9(5), 209 - 214. DOI: 10.13189/eer.2021.090501.

Copyright©2021 by authors, all rights reserved. Authors agree that this article remains permanently open access under the terms of the Creative Commons Attribution License 4.0 International License

Abstract This paper aims to describe the role of the state in carrying out its public services for the utilization of natural resources by using the outlook of Indonesian philosophical insight of Pancasila in managing archipelagic state. This paper was conducted by using normative juridical approach to describe national management of marine resources. The management of marine resources is carried out through a legal framework to provide legal certainty and benefits for all communities as an archipelagic country characterized by an archipelago. The findings highlight that policies to maintain and manage marine natural resources, which will then be written about marine resources, must provide legal certainty and benefit value. The main contribution of this research is to explain the intersection of interests between uses within the national scope and at the same time containing the interests of use within the scope for the international community. This paper qualitatively examines the role of state as the main public service provider in administering institutions, corporations, independent institutions established by law for public service activities, and other legal entities established solely for public service activities in the context of utilization of marine resource. Empirical relationship between public sector performance and marine resource utilization was not tested in this study. The results encourage the state to maintain the integration of the nation and state both ideologically and territorially by realizing reliable public service through the improvement of utilizing marine resource as a means of increasing people

welfare, especially in an archipelagic state such as Indonesia. The description is in relation to the role of the state in implementing public services in the utilization of marine resources in an archipelagic country based on national insight.

Keywords Public Service, State Role, Marine Resource, Pancasila, Indonesia

1. Introduction

The state which is commonly identified with the government is also equated with the nation (natie), society, tax authorities or state treasury. In the study of international law, Mochtar & Agoes [1] explained that the state is a subject of international law in a classical sense. There is still an opinion that international law is essentially the law between countries even though it is not only the state as a subject of international law. The subjects of international law include states, the holy throne, the international Red Cross, international organizations, individuals in a limited sense, rebels and disputing parties.

Realizing the state's goals of Indonesia is an obligation based on the five foundations of the state, namely Pancasila. As a nation's philosophical basis, Pancasila has a relationship of conformity with the state it is based on Environment and Ecology Research 9(5): 224-234, 2021

DOI: 10.13189/eer.2021.090503

A Review of Hazardous Compounds Present in Construction Waste Materials

Elamaran Manoharan^{*}, Norazli Othman, Roslina Mohammad, Shreeshivadasan Chelliapan, Siti Uzairiah Mohd Tobi

Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia, Jalan Sultan Yahya Petra, 54100 Kuala Lumpur, Malaysia

Received July 6, 2021; Revised August 27, 2021; Accepted September 21, 2021

Cite This Paper in the following Citation Styles

(a): [1] Elamaran Manoharan, Norazli Othman, Roslina Mohammad, Shreeshivadasan Chelliapan, Siti Uzairiah Mohd Tobi, "A Review of Hazardous Compounds Present in Construction Waste Materials," Environment and Ecology Research, Vol. 9, No. 5, pp. 224 - 234, 2021. DOI: 10.13189/eer.2021.090503.

(b): Elamaran Manoharan, Norazli Othman, Roslina Mohammad, Shreeshivadasan Chelliapan, Siti Uzairiah Mohd Tobi (2021). A Review of Hazardous Compounds Present in Construction Waste Materials. Environment and Ecology Research, 9(5), 224 - 234. DOI: 10.13189/eer.2021.090503.

Copyright©2021 by authors, all rights reserved. Authors agree that this article remains permanently open access under the terms of the Creative Commons Attribution License 4.0 International License

Abstract Construction industry around the world is well-known as a massive contributor of waste materials and environmental impacts. Among the types of waste materials generated by this industry are concrete, plastic, wood, ceramic, and asbestos. These waste materials, in chemically fused general, through manufacturing processes before being transported for the construction usage. Addition of chemical compounds such as arsenic, copper, cyanide, nickel, chromium, lead, sulphate, and zinc are mainly for enhancing the mechanical and physical properties of the materials so that the materials could last longer, perform well and withstand external forces. However, construction materials that are made up of these chemical compounds are threatening the nature and human beings once the materials are used up and the leftover from the construction industry are thrown away without proper waste management practice. The aim of the study was to review hazardous compounds presented in construction waste materials and suggest ways to manage it effectively. The methodology is literature review, data collection from published articles, and data analysis. Findings from this study showed that concrete, plastic, wood, ceramic, and asbestos are among the waste materials that are made up of hazardous compounds, which impact the environment and mankind living today. As a mitigation measure, a proper waste management practice is necessary among the construction practitioners to protect humans and

biological factors, save some landfill spaces, preserve some natural resources, prevent soil and underground water channel contamination, avoiding illegal dumping activities, and promotes sustainability factors. Obeying the enforced rules and regulations, utilisation of various waste management technologies, on-site waste segregation and proper storage, waste substitutions, and making use of well-structured framework developed by researchers and construction consultancy are among the methods that can be adopted in polishing the current waste management practice.

Keywords Concrete, Ceramic, Wood, Plastic, Asbestos

1. Introduction

Over the past few decades, Malaysian economy was facing rapid development and ranked 18th globally competitive country in 2015 [1]. As one of the key players to the development of Malaysian economy, the construction industry was granted with numerous projects worth up to RM 138 billion in 2017 to achieve the demands of the population [2]. However, the extreme urbanisation that was involved by this industry significantly changed the lifestyle of the population and

Environment and Ecology Research 9(5): 235-241, 2021

DOI: 10.13189/eer.2021.090504

The Level of Ecological and Hydrobiological Indicators in the Cheboksary Reservoir

Andrey Vladimirovich Kozlov^{1,*}, Nataliya Nikolaevna Koposova¹, Irina Pavlovna Uromova¹, Elena Aleksandrovna Krotova¹, Anna Vladimirovna Matveeva¹, Nadezhda Vasilevna Polyakova²

¹Minin Nizhny Novgorod State Pedagogical University, 1 Ulyanova str., Nizhny Novgorod, 603950, Russia ²Nizhny Novgorod State Agricultural Academy, 97 Gagarina ave., Nizhny Novgorod, 603107, Russia

Received July 23, 2021; Revised September 2, 2021; Accepted September 26, 2021

Cite This Paper in the following Citation Styles

(a): [1] Andrey Vladimirovich Kozlov, Nataliya Nikolaevna Koposova, Irina Pavlovna Uromova, Elena Aleksandrovna Krotova, Anna Vladimirovna Matveeva, Nadezhda Vasilevna Polyakova, "The Level of Ecological and Hydrobiological Indicators in the Cheboksary Reservoir," Environment and Ecology Research, Vol. 9, No. 5, pp. 235 - 241, 2021. DOI: 10.13189/eer.2021.090504.

(b): Andrey Vladimirovich Kozlov, Nataliya Nikolaevna Koposova, Irina Pavlovna Uromova, Elena Aleksandrovna Krotova, Anna Vladimirovna Matveeva, Nadezhda Vasilevna Polyakova (2021). The Level of Ecological and Hydrobiological Indicators in the Cheboksary Reservoir. Environment and Ecology Research, 9(5), 235 - 241. DOI: 10.13189/eer.2021.090504.

Copyright©2021 by authors, all rights reserved. Authors agree that this article remains permanently open access under the terms of the Creative Commons Attribution License 4.0 International License

Abstract The paper assesses the ecological state of the Cheboksary reservoir based on the criteria of the total abundance, biomass, and species phytoplankton, zooplankton, and benthos. During the study period, no significant changes in the indicators of the development of algocenoses, their distribution over the water area of the reservoir were noted. The average phytoplankton biomass for the reservoir turned out to be in the dynamic norm, the trophic status was assessed as eutrophic; The revealed ratios of the leading systematic groups of planktonic algae and the composition of cenosis-forming species had also been in the previous years of the study. According to the level of the saprobity index, all sampling stations belong to class III (moderately polluted waters). The benthos of the reservoir was also characterized by sufficient diversity with the dominance of mollusks and chironomid larvae in the taxonomic composition. Thus, despite the presence of a certain anthropogenic impact on the water area of the Cheboksary reservoir, its hydrobiological state remains satisfactory, which is determined by a wide buffer limit to the level of pollution of the water body.

Keywords Artificial Reservoir, Hydrobiological Properties, Ecological State of a Water Body

1. Introduction

Due to the uneven location of rivers, lakes, and other hydrological objects on the Earth's surface, artificial reservoirs have become a common planetary phenomenon. These include various ponds, canals, reservoirs, filtration reservoirs, and other objects that have any unique economic and/or biospheric importance. The main purpose of creating reservoirs is to accumulate water with its subsequent use. In addition, the reservoir, as an artificially created water body, has a strategically significant function in the national economic sectors and the ecological biosphere plan [1].

The construction of regulating reservoirs provides an opportunity to partially or completely eliminate the conditions for the occurrence of such adverse events as floods and high water. At the same time, in addition to reducing direct damage from them, the costs of construction and reconstruction of capital objects in various sectors of the economy are also reduced due to the reduction of flood control costs. The creation of reservoirs solves the problem of water shortage in certain regions and also solves the reclamation problem of water supply following the most optimal timing of irrigation for crops. Reservoirs are ubiquitous sites for organizing fisheries. Commercial fish species (bream, pike perch, etc.) are often grown in artificial reservoirs. Besides, initiatives are taken