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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING

Judul Artikel : **"Implementation of State Obligations and Responsibility Ensuring the Availability of Clean Water in Karimunjawa Islands "**

Jumlah Penulis : **2 orang**
Status Pengusul : **Penulis ke- 1**

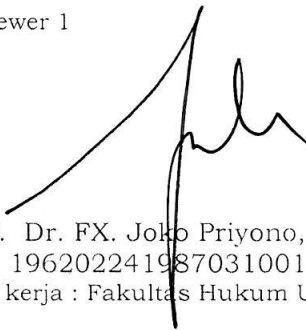
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Kategori Publikasi Seminar : ☒ Seminar Internasional
(beri ✓ pada kategori yang tepat) ☐ Seminar Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Yang Diperoleh
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi Prosiding(10%)	2	2	2
b. Ruang lingkup dan kedalaman pembahasan (30%)	5	5	5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	5	5	5
d. Kelengkapan unsur dan kualitas penerbitan prosiding (30%)	4	4	4
Total = (100%)	16	16	16
Nilai Pengusul = 60% x 16 = 9,6			

Reviewer 1



Prof. Dr. FX. Joko Priyono, SH.,M.Hum
NIP 196202241987031001
Unit kerja : Fakultas Hukum Undip

Semarang,

16 JUN 2022

Reviewer 2



Prof. Dr. Kholis Roisah, SH.,M.Hum
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Unit kerja : Fakultas Hukum Undip

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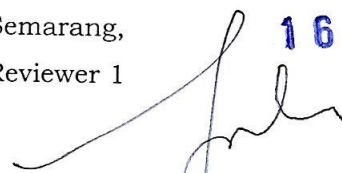
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	Internasional <input checked="" type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	2		2
b. Ruang lingkup dan kedalaman pembahasan (30%)	6		5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6		5
d. Kelengkapan unsur dan kualitas penerbit (30%)	6		4
Total = (100%)	20		16
Nilai Pengusul = 60% x 16 = 9.6			

Catatan Penilaian Prosiding Oleh Reviewer :

- a. Kelengkapan unsur isi prosiding : unsur isi lengkap, judul, author, introduction, research method, result & discussion, conclusion & references.
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- c. Kecukupan dan kemutakhiran data/informasi dan metodologi : data/informasi cukup, mutakhir
- d. Kelengkapan unsur dan kualitas penerbit : ber ISSN & dapat diakses.

Semarang,
Reviewer 1



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a. Kelengkapan unsur isi prosiding (10%)	2		2
b. Ruang lingkup dan kedalaman pembahasan (30%)	6		5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6		5
d. Kelengkapan unsur dan kualitas penerbit (30%)	6		4
Total = (100%)	20		16
Nilai Pengusul = $60\% \times 20 = 12$			

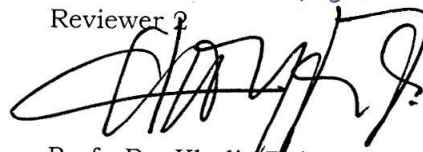
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- c. Kecukupan dan kemutakhiran data/informasi dan metodologi : data & referensi yg terkini terupdate
- d. Kelengkapan unsur dan kualitas penerbit : penerbit terpercaya & artikel analisis mendalam

Semarang,

16 JUN 2022

Reviewer 2



Prof. Dr. Kholis Roisah, SH., M.Hum
NIP 196012301986032004
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Implementation of state obligations and responsibility ensuring the availability of clean water in Karimunjawa islands

TR Soeprbowati - E3S Web of Conferences, 2018 - e3s-conferences.org

This article aims to analyze the implementation of state obligations and responsibility ensuring the availability of clean water as part of human rights in Karimunjawa islands. The analysis based on principle of the State obligations and responsibility to fulfill their citizen right. Water sources in Karimunjawa Islands is very limited. It depend on forest conservation. Around 9.600 peoples live in Karimunjawa Islands, but Karimunjawa is non groundwater basin region. It means, Karimunjawa doesn't have groundwater potential. The quantity of ...

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All issues ▶ Volume 31 (2018)

◀ Previous issue

Table of Contents

Next issue ▶

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E3S Web of Conferences Volume 31 (2018)

The 2nd International Conference on Energy, Environmental and Information System (ICENIS 2017)

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- ▼ 06. Environmental Health, Toxicology and Epidemiology
- ▼ 07. Green Infrastructure and Resilience
- ▼ 08. Environmental Conservation
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CaSO₄ Scale Formation on Vibrated Piping System in the Presence Citric Acid 01001
W. Mangestiyono, J. Jamari, S. Muryanto and A. P. Bayuseno
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PDF (822 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Utilization of Indonesia's Hot Spring Sources for Electricity using Kalina Cycle and Organic Rankine Cycle 01002
Grano Prabumukti and Widodo Wahyu Purwanto
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DOI: <https://doi.org/10.1051/e3sconf/20183101002>
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Managing Campus Energy: Compromising between Rapid Needs and Environmental Requirement 01003
Ambariyanto Ambariyanto, Yos J. Utama and Purwanto
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DOI: <https://doi.org/10.1051/e3sconf/20183101003>
PDF (204 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Developing Energy Technology Course for Undergraduate Engineering Management Study Program in Lake Toba Area with Particular Focus to Sustainable Energy Systems in Development Context 01004
Yosef Manik, Rizal Sinaga and Hadi Saragi
Published online: 21 February 2018
DOI: <https://doi.org/10.1051/e3sconf/20183101004>
PDF (302 KB) | [References](#) | [NASA ADS Abstract Service](#)

An effect of humid climate on micro structure and chemical component of natural composite (*Boehmeria nivea-Albizia falcata*) based wind turbine blade 01005

S. Sudarsono, P. Purwanto and Johnny W Sudarsono

Published online: 21 February 2018

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The Effect of Acid Pre-Treatment using Acetic Acid and Nitric Acid in The Production of Biogas from Rice Husk during Solid State Anaerobic Digestion (SS-AD) 01006

Winardi Dwi Nugraha, Syafrudin, Cut Fadhila Keumala, Hashfi Hawali Abdul Matin and Budiyo

Published online: 21 February 2018

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Using a Fuzzy Light Sensor to Improve the Efficiency of Solar Panels 01007

Suryono Suryono, Jatmiko Endro Suseno, Ainie Khuriati Riza Sulistiati and Tahan Prahara

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The Increase of Energy Consumption and Carbon Dioxide (CO₂) Emission in Indonesia 01008

Hadi Sasana and Annisa Eka Putri

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CFD Analysis to Calculate the Optimal Air Velocity in Drying Green Tea Process Using Fluidized Bed Dryer 01009

Eflita Yohana, Afif Prasetya Nugraha, Ade Eva Diana, Ilham Mahawan and Sri Nugroho

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Ana Yustika, P Purwanto and H Hermawan

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Compressed Natural Gas Technology for Alternative Fuel Power Plants 01011

Isworo Pujotomo

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Impact of Training and Mentoring Activities Which are Given to The Level of Interest And Capability Industrial Target Group In Adopting SNI ISO 50001 01012

Dwi Apriyanti, Aris Ika Nugrahanto and Sanjaya Shrestha

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PDF (330 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Performance Analysis of Isolated Hybrid Power Plant Model with Dynamic Load Conditions – Morning, Noon and Afternoon Transitions 02001

Rina Irawati

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Enhancement of Biogas Production from Rice Husk by NaOH and Enzyme Pretreatment 02002

Syafrudin, Winardi Dwi Nugraha, Shandy Sarima Agnesia, Hashfi Hawali Abdul Matin and Budiyo

Published online: 21 February 2018

DOI: <https://doi.org/10.1051/e3sconf/20183102002>

PDF (399.7 KB) | [References](#) | [NASA ADS Abstract Service](#)

Geomagnetic Survey to Explore High-Temperature Geothermal System in Blawan-Ijen, East Java, Indonesia 02003

Yunus Daud, Syamsu Rosid, Fikri Fahmi, Faris Maulana Yunus and Reza Muflihendri

Published online: 21 February 2018

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Geothermal Potential Based on Physical Characteristics of the Region (Case Study: Mount Karang, Pandeglang Regency and Banten Province) 02004

Phillipo Russel, Astrid Damayanti and Tjiong Giok Pin

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Sea Water Characterization at Ujung Kulon Coastal Depth as Raw Water Source for Desalination and Potential Energy 02005

Dan Mugisidi and Okatrina Heriyani

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Home Photovoltaic System Design in Pangkalpinang City 02006

Wahri Sunanda

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Biogas Production from Rice Husk Waste by using Solid State Anaerobic Digestion (SSAD) Method 02007

Hashfi Hawali Abdul Matin and Hadiyanto

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The Effect of COD Concentration Containing Leaves Litter, Canteen and Composite Waste to the Performance of Solid Phase Microbial Fuel Cell (SMFC) 02008

Ganjar Samudro, Syafrudin, Winardi Dwi Nugraha, Endro Sutrisno, Ika Bagus Priyambada, Hilma Muthi'ah, Glory Natalia Sinaga and Rahmat Tubagus Hakiem

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Roles of K₂O on the CaO-ZnO Catalyst and Its Influence on Catalyst Basicity for Biodiesel Production 02009

Luqman Buchori, I. Istadi, P. Purwanto, Louis Claudia Marpaung and Rahmatika Luthfiani Safitri

Published online: 21 February 2018

DOI: <https://doi.org/10.1051/e3sconf/20183102009>

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Potential of Electric Power Production from Microbial Fuel Cell (MFC) in Evapotranspiration Reactor for Leachate Treatment Using Alocasia macrorrhiza Plant and Eleusine indica Grass 02010

Badrus Zaman and Irawan Wisnu Wardhana

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Heri Suyanto

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Solar Water Heating System for Biodiesel Production 02012

Syaifurrahman, A Gani Usman and Rakasiwi Rinjani

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Enhancing Biodiesel from Kemiri Sunan Oil Manufacturing using Ultrasonics 02014

Slamet Supriyadi, Purwanto Purwanto, Didi Dwi anggoro and Hermawan

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Bioenergy Potential Based on Vinasse From Ethanol Industrial Waste to Green Energy Sustainability 02015

Nani Harihastuti and Bektı Marlena

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Optimization of Methane Gas Formation Rate with The Addition of EM4 Starter-made from Tofu Liquid Waste and Husk Rice Waste Using Biogas Reactor-Fixed Dome in Langensari West Ungaran 02016

Fahmi Arifan, Fuad Muhammad, Sri Winarni, Hafizh Rama Devara and Latifah Hanum

Published online: 21 February 2018

DOI: <https://doi.org/10.1051/e3sconf/20183102016>

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A Study of Sedimentation at the River Estuary on the Change of Reservoir Storage 03001

Iskahar, Suripin and Isdiyana

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Ozone Application for Tofu Waste Water Treatment and Its Utilisation for Growth Medium of Microalgae *Spirulina sp* 03002

Hadiyanto Hadiyanto

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PDF (264 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Effect of light Intensity and photoperiod on growth of *Chlorella pyrenoidosa* and CO2 Biofixation 03003

Teuku Johar Gunawan, Yusni Ikhwani, Fajar Restuhadi and Usman Pato

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DOI: <https://doi.org/10.1051/e3sconf/20183103003>

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Pollution Impact and Alternative Treatment for Produced Water 03004

Yusran Hedar and Budiyo

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PDF (647 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Integrating Electrokinetic and Bioremediation Process for Treating Oil Contaminated Low Permeability Soil 03005

Bimastyaji Surya Ramadan, Agus Jatnika Effendi and Qomarudin Helmy

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Numerical Solution of a 3-D Advection-Dispersion Model for Dissolved Oxygen Distribution in Facultative Ponds 03006

Sunarsih, Dwi P. Sasongko and Sutrisno

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Effectiveness of Nitrification Inhibition on Various Species of *Brachiaria* Grass Rhizosphere 03007

Purwanto, Supriyadi and Aniek Hindrayani

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Performance of Anaerobic Baffled Reactor with Three Compartments in Removal of COD of Wastewater of Chilly Sauce 03008

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Suparni Setyowati Rahayu, Budiyo Budiyo and Purwanto Purwanto

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Aditya Widiyati, Gema Adil Guspiyani, Jeffry Riady, Rikky Andreanto, Safina Dea Chaiunnisa and Widayat Widayat

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Endah Sri Wahyuni and Fahmi Arifan

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Badrus Zaman, Wiharyanto Oktiawan, Mochtar Hadiwidodo, Endro Sutrisno, Purwono and Irawan Wisnu Wardana

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Rame

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Sri Sumiyati, P. Purwanto, Endro Sutrisno, S. Sudarno, Jalu Arthawidya and Humam Izzudin

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Decreasing of BOD Concentration on Artificial Domestic Wastewater Using Anaerob Biofilter Reactor Technology 03016

Sri Sumiyati, P. Purwanto and S. Sudarno

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Optimization of Wastewater of Batik Buaran Pekalongan by Using Photocatalytic Membrane Bioreactor 03017

Fahmi Arifan, FS Nugraheni and Niken Elsa Lianandaya

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Dose of Biocoagulant-Mixing Rate Combinations for Optimum Reduction of COD in Wastewater 03018

Maria Faustina Patricia, Purwono and Mochamad Arief Budihardjo

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Ika Kartika Febriani and Hadiyanto

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Rachel L. Wattimena, Debby A.J. Selanno, Samuel F. Tuhumury and Juliana W. Tuahatu

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Mochamad Arief Budihardjo, Haryono Setiyo Huboyo and Budi Prasetyo Samadikun

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Rame, Adeodata Tridecima, Hadi Pranoto, Moesliem and Miftahuddin

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DOI: <https://doi.org/10.1051/e3sconf/20183104007>

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Rahayu Siwi Dwi Astuti, Arieanti Dwi Astuti and Hadiyanto

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Widayat, John Philia and Jessica Wibisono

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S. Lestari, Sudarmadji, S.D. Tandjung and S.J. Santoso

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Arieyanti Dwi Astuti, Rahayu Siwi Dwi Astuti and Hadiyanto Hadiyanto

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- 05. Waste Management

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Erni Setyowati, Gagoek Hardiman and Purwanto

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Budi Prasetyo Samadikun, Dwi Siwi Handayani and Muhamad Permana Laksana

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Erina Riak Asie, Nyahu Rumbang, Sih Winarti and Soaloon Sinaga

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Noor Amalia Chusna and Maryono Maryono

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Astrid Pardede, Mochamad Arief Budihardjo and Purwono

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Ihsan Wira S and Sunarsih Sunarsih
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Potential Of Microalgae *Chlorella vulgaris* As Bioremediation Agents of Heavy Metal Pb (Lead) On Culture Media 05010
Endah Rita Sulistya Dewi and Riza Nuravivah
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Good Housekeeping Implementation for Improving Efficiency in Cassava Starch Industry (Case Study : Margoyoso District, Pati Regency) 05011
Wijayanto Setyo Aji, Purwanto P and Suherman S
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Wiharyanto Oktiawan, Badrus Zaman and Purwono
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- 06. Environmental Health, Toxicology and Epidemiology

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The Effectivity of Green Coconut Water To Reduce Mercury Level In The Blood And To Improve Blood Profiles And Liver Cells Appearance (*Study In Sprague Dawley Rats*) 06001
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Agus Tjahjono, Aziz Nur Bambang and Sutrisno Anggoro
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Physicochemical Characteristics of Artificial Rice from Composite Flour: Modified Cassava Starch, Canavalia ensiformis and Dioscorea esculenta 06005
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Ratih Budinastiti, Henna Rya Sunoko and Nyoman Suci Widiastiti
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The Presence Of Rat And House Sanitation Associated With *Leptospira* sp. Bacterial Infection In Rats (A Cross Sectional Study In Semarang, Central Java Province, Indonesia) 06008
Endang Setiyani, Martini Martini and Lintang Dian Saraswati
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Tri Joko, Sutrisno Anggoro, Henna Rya Sunoko and Savitri Rachmawati
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Fajrul Falakh and Onny Setiani
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Ikshiroh El Husna, Yan El Rizal Unzilatrizzqi D, Yudi Karyanto and Henna R Sunoko
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Comparison of Sellers's Awareness to Environmental Hygiene of Market Bulak, Market Klender and Market Rawamangun, East Jakarta 06013
Maulidya Hasana P.
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PDF (611 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Implementation of Geographical Information System for Bacteriological Contamination Analysis on Refill Drinking Water Depot (Study in Tembalang District) 06014
Amelia Rahmitha, Endang Sri Utami and Marya Yenita Sitohang
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Jati Utomo Dwi Hatmoko, Arif Hidayat, Apsari Setiawati and Stefanus Catur Adi Prasetyo

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Juang Akbardin, Danang Parikesit, Bambang Riyanto and Agus Taufik Mulyono

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Hariyanto, Sudharto P Hadi and Imam Buchori

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Lukman Eka Prasaja and Hadiyanto
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- 08. Environmental Conservation

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Peter Gell
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Devina Trisnawati, Najib, Istiqomah Ari Kusuma and Anissa Fitratul Husna
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PDF (1.05 MB) | [References](#) | [NASA ADS Abstract Service](#)

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Vulnerability Assessment of Mangrove Habitat to the Variables of the Oceanography Using CVI Method (Coastal Vulnerability Index) in Trimulyo Mangrove Area, Genuk District, Semarang 08004
Rifandi Raditya Ahmad and Muhammad Fuad
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DOI: <https://doi.org/10.1051/e3sconf/20183108004>
PDF (504.8 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Eco-efficiency Analysis of Furniture Product Using Life Cycle Assessment 08005
Dyah Ika Rinawati, Sriyanto, Diana Puspita Sari and Andana Cantya Prayodha
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PDF (273 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Irba Djaja, P. Purwanto and H. R. Sunoko
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PDF (505 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Suwanto, Sudharto P Hadi and Hermawan
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PDF (333 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Conservation Management of Agriculture Land using Geospatial Approach (A Case Study in the Bone Watershed, Gorontalo Province, Indonesia) 08009
Sri Maryati, Sunarty Eraku and Muh Kasim
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Carbon Value Analysis of Batang Gadis National Park, Mandailing Natal Regency, North Sumatera Province, Indonesia 08010

Dini Novalanty Ohara Daulay and Jafron Wasiq Hidayat

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DOI: <https://doi.org/10.1051/e3sconf/20183108010>

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Domas Kurnia and Denny Nugroho

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DOI: <https://doi.org/10.1051/e3sconf/20183108011>

PDF (716 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Fish Marketing of Ribbon Fish (*Trichiurus* sp.) in Nusantara Fishing Port (NFP) at Palabuhanratu, West Java 08012

Azis Nur Bambang

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DOI: <https://doi.org/10.1051/e3sconf/20183108012>

PDF (362 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Community Structure Of Coral Reefs In Saebus Island, Sumenep District, East Java 08013

Mada Rizmaadi, Johannes Riter, Siti Fatimah, Riyan Rifaldi, Arditho Yoga, Fikri Ramadhan and Ambariyanto Ambariyanto

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Nur Anisa Eka Ariyani and Kismartini

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Ferdinand Saras Dhikawan, Sudharto P. Hadi, Adj Samekto and Dwi P. Sasongko

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Sri Sulistyowati and Sudharto P. Hadi

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PDF (424 KB) | [References](#) | [NASA ADS Abstract Service](#)

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Putranto Wijaya, Tri Putra, Fatra Hidayat, Chandra Levraeni, Mada Rizmaadi and Ambariyanto Ambariyanto

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Siti Fatimah, Tri Widya Laksana Putra, Putranto Kondang, Suratman, Larossa Gamelia, Hendry Syahputra, Rahmadayanti, Mada Rizmaaadi and Ambariyanto Ambariyanto

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Feti Fatimatuzzahroh, Sudharto P. Hadi and Hartuti Purnaweni

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Bustam Sulaiman, Azis Nur Bambang, Hartuti Purnaweni and Mohammad Lutfi

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Haryono S Huboyo, Endro Sutrisno, Ana M Sutrisno and Velida L Tiarani
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Fajar Ifan Dolly, Kismartini Kismartini and Hartuti Purnaweni

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Septya Maharani, Heliza Rahmania Hatta, Afif Nur Anzhari and Dyna Marisa Khairina

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Moshe Markhasi Rupilu, Suyoto and Albertus Joko Santoso

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Ari Kurnianto, Rizal Isnanto and Aris Puji Widodo

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Retno Agus Setiawan, Djoko Budiyo Setyohadi and Pranowo

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Alzena Dona Sabila, Mustafid Mustafid and Suryono Suryono

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Mona Fronita, Rahmat Gernowo and Vincencius Gunawan

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Galih Driandanu, Bayu Surarso and Suryono

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Real-time Geographic Information System (GIS) for Monitoring the Area of Potential Water Level Using Rule Based System 11019

Wirdah Anugrah, Suryono Suryono and Jatmiko Endro Suseno

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- 12. Health, Safety and Environment Information Systems

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Arif Susanto and Nur Budi Mulyono

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Daniel Eko Aryanto and Gagoek Hardiman

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Assessing the Priority Area of Mountainous Tourism Using Geospatial Approach in Kendal Regency, Central Java 12003

Riwayatiningsih and Hartuti Purnaweni

Published online: 21 February 2018

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The Role of Spatial Analysis in Detecting the Consequence of the Factory Sites : Case Study of Assalaya Factory-Sudan 12004

Amar Sharaf Eldin Khair, Purwanto, Henna RyaSunoko and Omer Adam Abdullah

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Designing Web-based GIS Application by CSF Method: A Case Study in Boven Digoel Papua 12005

Hendrykus Saritangdan Letsoin, Albertus Joko Santoso and Suyoto

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The Decision Making Trial and Evaluation Laboratory (Dematel) and Analytic Network Process (ANP) for Safety Management System Evaluation Performance 12006

Lisa Rolita, Bayu Surarso and Rahmat Gernowo

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Development of Airport Noise Mapping using Matlab Software (Case Study: Adi Soemarmo Airport – Boyolali, Indonesia) 12007

Pertiwi Andarani, Haryono Setiyo Huboyo, Diny Setyanti and Wiwik Budiawan

Published online: 21 February 2018

DOI: <https://doi.org/10.1051/e3sconf/20183112007>

☐ Open Access

Integration of Remote Sensing Technology Using Sentinel-2A Satellite images For Fertilization and Water Pollution Analysis in Estuaries Inlet of Semarang Eastern Flood Canal 12008
Sawitri Subiyanto, Zainab Ramadhanis and Aditya Hafidh Baktiar
Published online: 21 February 2018
DOI: <https://doi.org/10.1051/e3sconf/20183112008>
[PDF \(372 KB\)](#) | [References](#) | [NASA ADS Abstract Service](#)

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Risk Analysis of Coastal Disaster of Semarang City, Indonesia 12009
Sunaryo Sunaryo, Ambariyanto Ambariyanto, Denny Nugroho Sugianto, Muhammad Helmi, Awaluddin Halirin Kaimuddin and Agus Indarjo
Published online: 21 February 2018
DOI: <https://doi.org/10.1051/e3sconf/20183112009>
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Landslides susceptibility mapping at Gunung Ciremai National Park 12010
Faizin and Bambang Azis Nur
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Implementation of State Obligations and Responsibility Ensuring the Availability of Clean Water in Karimunjawa Islands

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Abstract. This article aims to analyze the implementation of state obligations and responsibility ensuring the availability of clean water as part of human rights in Karimunjawa islands. The analysis based on principle of the State obligations and responsibility to fulfill their citizen right. Water sources in Karimunjawa Islands is very limited. It depend on forest conservation. Around 9.600 peoples live in Karimunjawa Islands, but Karimunjawa is non groundwater basin region. It means, Karimunjawa doesn't have groundwater potential. The quantity of water depends on the season. The solution to maintain the sustainability of clean water is piping from water reservoir to residential areas. The problem is there are so many hotels in Karimunjawa islands, it disrupted the fulfillment of clean water. Besides utilizing water from reservoir, many hotels drilled the ground to get water. It had impact to the availability of water in dry season and affected to fulfillment of water supply for Karimunjawa people. There is no specific regulation and policy to solve this problem. Clean water management is doing by Karimunjawa's people. Meanwhile, based on Mahkamah Konstitusi Decree number 85/PUU-XI/2013, state is a rights holder to dominate the water in accordance with the Articles 33 paragraph (2) and (3) UUD NRI 1945, so the government has an obligation to make a policy, regulations, management, and supervision.

1 Introduction

1.1 Background

Water is the source of life. For human, water possesses social, economic, and religious values and functions. Water resources have always become actual issues because the right of water is fundamental for human life. In practice, however, the need for clean water for most people in the world, including in Indonesia, has never been fulfilled.

Global water problems also indicate the similar problems with that of Indonesia. Naturally, Indonesia is the fifth richest country in the world, having an annual rainfall rate of 2,799 mm, with a great deal of water resource potential. However, such abundance raises some problems because of unequal distribution through the year. Due to global climate change, the climate pattern continues to change significantly. Rainy season in particular country will affect the climate of the other country. Therefore, water climate-related water problems are considered global issues, no longer local or national ones [1].

International community concern of the water-related problems has been indicated by an agreement of global development by the issuance of a document namely 'Sustainable Development Goals' (SDGs). This

document is signed by 193 country members of the United Nations at the General Assembly on September 25, 2015 in New York. The SDGs document promotes 17 goals and 169 development objectives and its sixth goal, 'clean water and sanitation', requires the sustainable clean water and sanitation for everyone.

Karimunjawa Islands, one of districts in Jepara Regency, are regions with limited clean water, in particular when it comes a dry season. In the dry season, many local people use brackish water to fulfill their daily necessities. The islands lack water supply and have a forest zone conservation area. A policy is necessary to regulate the water supply and use to ensure the sustainable right of water for the local people of the Karimunjawa Islands. The obligation to fulfill the need for clean water is among the primary responsibilities of the government.

Indonesia is a country where mutual welfare has become the ultimate objective. This concept is not only becoming a legal image (*rechtsidee*), but also a state image (*staatsidee*). From the concept of welfare state, the state does not only act as security and tranquility watch for its people, but also has a responsibility for putting in practice social justice, mutual welfare and people prosperity [2-3].

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The Role of Spatial Analysis in Detecting the Consequence of the Factory Sites : Case Study of Assalaya Factory- Sudan

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Abstract. Spatial analysis is considered as one of the most important science for identifying the most appropriate site for industrialization and also to alleviate the environmental ramifications caused by factories. This study aims at analyzing the Assalaya sugarcane factory site by the use of spatial analysis to determine whether it has ramification on the White Nile River. The methodology employed for this study is Global Position System (GPS) to identify the coordinate system of the study phenomena and other relative factors. The study will also make use Geographical Information System (GIS) to implement the spatial analysis. Satellite data (LandsatDem- Digital Elevation Model) will be considered for the study area and factory in identifying the consequences by analyzing the location of the factory through several features such as hydrological, contour line and geological analysis. Data analysis reveals that the factory site is inappropriate and according to observation on the ground it has consequences on the White Nile River. Based on the finding, the study recommended some suggestions to avoid the aftermath of any factory in general. We have to take advantage of this new technological method to aid in selecting most apt locations for industries that will create an ambient environment.

1 Introduction

The spatial analysis in this paper is emphasizes on the spatial elaboration for the factory site by several element using Global Position System (GPS) , Geographical Information System (GIS) and satellite data, making way for spatial interpretation of the factory potential zones. It has the ability to decide whether the factory location is suitable for the industrial process through special techniques. It will be elaborated in data analysis. It also has potential to find the affinity between Assalaya factory location and water resources–white Nile River and human settlement. The study will further illustrate the potential aftermath affected by the factory through analyzing the data by GIS technique, [1].

The GIS technique is considered as one of the important scientific technology that is recently in use as decision-maker for selecting compatible location for industries and has ability to predict the future ramification as well as the influence by the factories through special techniques because it can be one of the scientific technological

Innovation which has ability to put scientific research findings into practice,[2].

The use modern technology with different techniques like Spatial Analysis and Digital Elevation Model (DEM) is the best way of selecting the right position of factories to avoid consequences caused by the factory

production which has massive impact on water resources. So if factories are well-sited will bring forth both economic and environmental benefit especially in recent case of rapid population growth,[3].

Digital Elevation Model (DEM) is suitable to exhibit the continuous change of the earth topography. It is the basic data source for terrain analysis and spatial applications. It can be used for studies that are related to science and engineering. The function of the DEM is supported by the widespread availability of digital topographic data,[4].

There are significant reasons for the selection of this topic and choosing Assalaya factory. In relation to the selection of this topic, it has been observed that factory wastewater is discharged into White Nile River. The White Nile River is considered the main branch of River Nile and the fundamental source of drinking water in Sudan in general. This being the specific area under study, there arise the need to emphasize on the role and ability of Spatial Analysis to select compatible location of factories to secure human life from the consequences from the factories and also to conserve the environment and the realization of the economic efficiency as well.

Assalaya Factory is being chosen for this study because the factory has been allocated in an environment that is inappropriate and complained by citizens that stay around this area, where some people have been suffering as a result of sugar cultivation production output. It has

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Management to Insulate Ecosystem Services from the Effects of Catchment Development

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Abstract. Natural ecosystems provide amenity to human populations in the form of ecosystem services. These services are grouped into four broad categories: provisioning – food and water production; regulating – control of climate and disease; supporting – crop pollination; and cultural – spiritual and recreational benefits. Aquatic systems provide considerable service through the provision of potable water, fisheries and aquaculture production, nutrient mitigation and the psychological benefits that accrue from the aesthetic amenity provided from lakes, rivers and other wetlands. Further, littoral and riparian ecosystems, and aquifers, protect human communities from sea level encroachment, and tidal and river flooding. Catchment and water development provides critical resources for human consumption. Where these provisioning services are prioritized over others, the level and quality of production may be impacted. Further, the benefits from these provisioning services comes with the opportunity cost of diminishing regulating, supporting and cultural services. This imbalance flags concerns for humanity as it exceeds recognised safe operating spaces. These concepts are explored by reference to long term records of change in some of the world's largest river catchments and lessons are drawn that may enable other communities to consider the balance of ecosystems services in natural resource management.

1 Introduction

Human societies have reaped food, water and materials from river catchments. While climate variability at a range of time scales has mediated the supply of these resources at regional scales, the sedentarisation of human communities through the Holocene, and the attendant increases in population and technology, has increased the intensity of resource exploitation. The Millennium Ecosystem Assessment reveals the further amplification of impacts of human resource exploitation from the mid-20th century identifying the Great Acceleration, which has prompted calls for the demarcation of a new geological epoch, The Anthropocene [1,2].

While ethical arguments can be mounted that natural systems warrant conservation for intrinsic reasons, the Ecosystem Services they provide humans is increasingly being used to justify investment in wise management [3]. It is recognised that the demand for consumptive resources such as food, water, energy, timber and minerals for the construction of shelter and fibre for clothing is impacting negatively on the other services provided humanity by the natural environment. In market based economies there remain opportunities for the price of consumption to reflect merely the cost of production, with little requirement for it to reflect the trade-off in the loss of assets and services, that are valuable, but represent a challenge to quantify economically. Without full cost accounting of the trade-offs between services society risks undermining the

support afforded by the less quantifiable phenomena and, ultimately, the ongoing supply of provisioning services.

The most readily identifiable services provided by natural ecosystems are usually those that provide directly for human needs. These Provisioning Services comprise potable water and food, including those harvested directly such as fish and native fruit, as well as those sown by people such as crops and stock raised for milk and meat. As a resource timber was used by early hominids as an energy source and then for shelter as technology became more sophisticated. Extracted minerals have replaced timber as a provider of shelter and this fibre is now directed in large volumes to the creation of paper. Most of humanity's energy is now provided by extracted fossil fuels that were largely unavailable before the industrial revolution.

The natural environment also affords considerable benefit to humanity by means that are not defined as provisioning. Natural systems regulate the habitat used by people by moderating microclimatic extremes (e.g. shade, shelter) and by controlling irruptions of pests, predators and disease carrying organisms that may impact negatively on people. It may also mitigate the risk of environmental hazards – coastal and riparian vegetation play's a clear role in protecting human settlements from floods and, as witnessed in 2004, tsunamis. Natural ecosystems also provide support to society that underpins the provision of food and water through the pollination of flowers that beget seed and fruit and the purification of water to mitigate the

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Prevalence of Hookworm infection and Strongyloidiasis in Cats and Potential Risk Factor of Human Diseases

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Abstract. Hookworm infection and Strongyloidiasis are public health problem in the worldwide which both of them could infective in human by penetrated on skin and they have potential risk from Gastrointestinal zoonotic helminths of pets, including cats. We investigated the prevalence soil transmitted helminths infection in human and cats used modified Formal-Ether Concentration and agar plate culture. Fecal samples of 23 cats and human from Naitung and Subua Villages (area study 1), and fecal samples of 15 cats and 17 humans from Thasala Beach villages (area study 2) were collected. Result of study in area study 1 showed prevalence of infection in human was not hookworm and strongyloidiasis but 10% humans have infected *Ascaris* and *Tricuris*, and in cats have infected by hookworm 75.2% and *S. stercoralis* 8.5%, *Toxocara* 13%, *Spirometra* 13% and overall prevalence 82.5%. In area study 2 showed in human has infected by *Trichuris* 100% and *S. stercoralis* 29.4% and in cats have infected by hookworm 100% and *S. stercoralis* 40%, *Toxocara* 20%, and *Spirometra* 20%. Helminth infection found in both humans in two areas study are *S. stercoralis*. Hookworms were the most common helminth in cats but did not connection with infection in human, while *S. stercoralis* was helminth infection in cats which has potential zoonotic disease to human.

1 Introduction

Dogs and cats play a significant role as reservoir hosts for gastrointestinal zoonotic parasites including protozoa, trematode, cestode and nematode [1, 2, 3]. Humans can be infected via contact with a dog or cat or via contamination of infective stages in food or water [4, 5].

Worldwide, there is a significant variation in the prevalence of gastrointestinal zoonotic helminths in dogs and cats [6, 3]. High infection rates of zoonotic parasites including hookworms, *Trichuris spp.*, *Spirometra spp.*, *Taenia spp.*, *Toxocara spp.* and *Opisthorchis spp.* have been reported [7,8,6,3]. Infection of zoonotic helminths has previously been researched in Thailand.

In the central area, a high prevalence of hookworm *Ancylostoma ceylanicum* was reported among dogs in temple communities in Bangkok [9]. The infections of zoonotic helminths, hookworms, *Trichuris spp.*, *Toxocara spp.* and *Spirometra spp.* were found in dogs and cats in animal refuges [10].

In the Northeastern area, a high infection rate of liver fluke, *Opisthorchis viverrini* (*O. viverrini*) in dogs and cats, was found in communities where *O. viverrini* infection in human was high [3]. In Thailand, infections of hookworms and *O. viverrini* are the major public health problems [11, 12, 13, 14, 9].

Infections of zoonotic hookworms, *A. ceylanicum* and *A. caninum*, have been reported in many areas [13, 9]. Molecular analysis showed *A. ceylanicum* is prevalent in humans and dogs in the Central and the Northeastern areas of Thailand [13, 9].

Another STH, *Strongyloides stercoralis*, is often neglected in helminth surveys [15, 9], yet previous studies show high *S. stercoralis* infection rates in Cambodia [16]. School-aged children in the developing world are at highest risk of morbidity due to STHs and intestinal protozoan infections [17].

However, mass treatment only focuses on three major STHs (*Ascaris*/hookworm/*Trichuris*). Other nematodes like *S. stercoralis*, trematodes and protozoan infections are not addressed. In rural Southeast Asia, little is known about the zoonotic potential of IPIs in humans and animals. Therefore of domestic animals, such as cats, dogs and pigs, as contributors to human STHs and as reservoir hosts for zoonotic parasites remains unexplored and/or the data are inaccessible.

Although surveys of zoonotic gastrointestinal helminths in dogs and cats had been done in Thailand, most of the studies have focused on the Central or Northeastern region [18, 19, 10, 20]. This study to investigate prevalence of zoonotic helminth infection in cats that potential risk factors to human.

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Implementation of State Obligations and Responsibility Ensuring the Availability of Clean Water in Karimunjawa Islands

by Rahayu Rahayu

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Implementation of State Obligations and Responsibility Ensuring the Availability of Clean Water in Karimunjawa Islands

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2

1 Introduction

1.1 Background

Water is the source of life. For human, water possesses social, economic, and religious values and functions. Water resources have always become actual issues because the right of water is fundamental for human life. In practice, however, the need for clean water for most people in the world, including in Indonesia, has never been fulfilled.

Global water problems also indicate the similar problems with that of Indonesia. Naturally, Indonesia is the fifth richest country in the world, having an annual rainfall rate of 2,799 mm, with a great deal of water resource potential. However, such abundance raises some problems because of unequal distribution through the year. Due to global climate change, the climate pattern continues to change significantly. Rainy season in particular country will affect the climate of the other country. Therefore, water climate-related water problems are considered global issues, no longer local or national ones [1].

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Indonesia is a country where mutual welfare has become the ultimate objective. This concept is not only becoming a legal image (*rechtsidee*), but also a state image (*staatsidee*). From the concept of welfare state, the state does not only act as security and tranquility watch for its people, but also has a responsibility for putting in practice social justice, mutual welfare and people prosperity [2-3].

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1.2 Theory

1.2.1 Policy on Water Resource Management

Water resource is understood as a capacity and potential of water to be exploited by human for social-economic activities. There are different water resources that can be used by the community, such as marine/sea water, surface water, rain water, and ground water. The use and control of water resources deal with water quality and quantity. Water quality is an important point in the water exploitation because it does not only depend on how much water that can be obtained to fulfill the needs, but also how much the quality of the water in line with the human needs [4].

In terms of water resource management as part of the natural resources, the government has an authority to issue related policies, laws and licenses. Since the Decree of Constitution Court 85/PUU-XI/2013, which negated Law 7/2004 on Water Resources, has been taken in effect, the water management has once again referred to the Law 11/1974 on Water Management [5]. According to the Law 11/1974 water resources are water places and media, either over or under the land surface (Article 1, point 4). Water and the water sources, including their natural richness, have social functions by which the people can exploit and use for their prosperity. The Law also requires that the water and the water resources are possessed by the state, pursuant to the Constitution of the Republic of Indonesia 1945, Article 33(3).

According to the Decree of the Constitution Supreme Court, the state expands its authority as it has responsibility to make policy (*beleid*), regulation (*regelendaad*), provision (*bestuursdaad*), management (*beheersdaad*), and monitoring (*toezichhoudensdaad*) [5]. These five authorizing functions become integrated instruments for the state towards the ultimate goal, i.e. prosperity for the all citizens. Therefore, the phrase 'to be possessed by the State' in the Article 33(3) of the 1945 Constitution must be understood within the concept of public law related to the principles of people sovereignty within the 1945 Constitution, either those concerning political democracy or economic democracy. It does necessarily mean that 'to be possessed' is 'to be owned' [6].

1.2.2 Citizen's right on water under legal standard and norm and State's obligations to fulfill

In principle, water is the essence of life because its existence is indispensable. Like oxygen, human cannot live without water. Even, every living creature on this planet will not survive without water. Therefore, water is the most fundamental right for mankind.

In addition to object, right is the object of law that can be controlled or owned by legal subjects. In general, rights can be distinguished into absolute rights and relative rights. Human rights are included in absolute rights.

Vary legal instruments promoted at international level indicate that water is not only the right, but also an aspect in which the access must be enabled for everyone. In other words, water has also become the part of human rights. Such defense has been promoted by the UDHR (Preamble and Article 3); Decision 1999/108 the

United Nations on Human Rights; Resolution of Sub Commission on Prevention of Discrimination and Protection of Minorities 1998/7; Resolution Number 2000/8 Sub-Commission on Human Rights; "Promotion of the Realization of the Rights of Drinking and Sanitation"; Resolution of Commission on Human Rights 2003/71; "Human Rights and Environment as part of Sustainable Development"; Article 11 and 12 International Covenant on Economic, Social and Cultural Right (ICESCR); etc. In the General Comment No. 14/2008 CSECR, in particular in the paragraph 12, the right of access to water comprises four elements, i.e. availability, accessibility, acceptability, and quality. Accessibility relates to respect for non-discriminatory principle, physical and economic access, and information.

In the context of the national law of Indonesia, the right of water has been constitutionally given under the 1945 Constitution, Articles 28A and 28B, 33(2) and 33(3). Furthermore, its implementation also has already been regulated, such as by Law 39/1999, in which Article 77 requires that "the government has an obligation to and responsibility for the respect, protection, enforcement, and honor the human rights under this Law, other regulations, and any international law concerning the human rights...". It means that the state has the obligation in three different matters, i.e. (1) to respect by self-control of any possible human rights violation, such as polluting rivers by which the people use for daily activities; (2) to protect by taking measures to prevent third parties' violation of the important elements of the right of water; and (3) to fulfill by taking legislative, administrative, budgetary, and judiciary measures to fulfill the need for and the right of water. These obligations point at the involvement level of the state and government [7].

1.3 Research Method

In this research social reality is defined as a reality that becomes part of the awareness, knowledge of society within a State. The social reality that underlines this research is the empirical reality, the reality that seems visible and is believed to be the real reality [8].

1.3.1 Research approach

This research applied a socio legal study approach. Such approach requires that legal aspect cannot only be conceptualized as a norm, but also a means of behavior. Therefore, the investigation of realities is expected to give the light whether the positive law or normative law within the patterns between subjects in the community have been fairly applied.

The use of socio legal study approach is necessary because a phenomenon cannot be solved only by providing information about the legal regulations. Instead, it also has to integrate approaches from other perspectives based on reality towards the ultimate goal of the law, i.e. creating regularity, justice, and prosperity.

1.3.2 Research type and materials

This research applied a qualitative-descriptive method with the aim at providing description of the right of water fulfillment for the local people of Karimunjawa Islands amidst the lacking clean water supply by exploration and clarification of the object under observation.

Data used for the research were both primary and secondary. The primary data were obtained by in-depth interview and focus group discussion with key informants. These data implied legal attitudes and behaviors of the local people of Karimunjawa Islands to fulfill their right of the clean water. Whereas, the secondary data were collected from literature study and documentary study, in the forms of primary, secondary, and tertiary legal materials.

1.3.3 Research Output Analysis

The data obtained were subject to qualitative analysis, which went on the following steps:

- 1.3.3.1 Data reduction, irrelevant data elimination, data unit abstraction;
- 1.3.3.2 Categorization, data were categorized;
- 1.3.3.3 Category correlation and correlated interpretation;
- 1.3.3.4 Interpretation and conclusion.

2 Results and Discussion

2.1 Access to clean water for local people of Karimunjawa Islands

The Karimunjawa Islands are under the administrative area of Jepara Regency, Central Java Province. This area becomes one of districts, which consists of four villages and 12 neighborhood area (*dukuh*). The islands spread 125 kilometer square on the geographical coordinate of 110°05'57"-110°31'15" East and 5°40'39"-5°55'00" South and are parts of the Java Sea group of islands. They are situated Northwest of the capital city of Jepara surrounded by the Java Sea. Karimunjawa Islands are composed of 27 islets and atolls, only four of them are inhabited with the total population of 9,802 [9].

Karimunjawa Islands do not have big rivers, but they possess five water springs, i.e. Kapuran (Pancuran Belakang), Legon Goprak, Legon Lele, Cikmas and Nyamplungan. These water springs are used by the locals for daily needs. According to *Peta Cekungan Air Tanah* established during *RAKEPRES Tentang Cekungan Air Tanah* dated September 17, 2007, the Karimunjawa Islands do not have ground water potential and are included in the *Non-CAT* category. Water resources in the islands are merely dependent on surface water and season [10-11].

Water quantity in the islands fluctuated seasonally so that it was unpredictable. Effort had to be made towards sustainable supply for the local people. The government had provided pipelines by connecting

points of water springs to settlements. Such effort was coordinated by a community union for clean water work unit namely "TIRTA KENCANA KARIMUNJAWA" [9]. The unit was established under the Letter of Decree of Karimunjawa District Head and was composed of local people to organize and to manage water distribution for mutual needs, in particular households in the islands. In addition, in some islets, such as Kemujan, Parang, and Nyamuk, where the water springs was not found, the people digged 8-20 meter deep wells to get the ground water for their daily needs [9].

Karimunjawa Islands were the home for 9,802 population with the domestic water need of 60-100 litres/individual/day. Whereas, non-domestic water needs consisted of commercial use, institutional need, and industrial needs, which could only apply to an area with less than 100,000 population. There was only 25% of the total water needs for households and domestic needs. According to water availability compared to the population size, the water need in Karimunjawa Islands had been fulfilled, although the population kept growing annually and the water supply was constant. Problems arose when Karimunjawa Islands began to develop resort and hotels for tourism activities.

Of five hotels and two resorts available in the Karimunjawa Islands, one needed to drill the ground water and the rests still depended on pipeline systems from the Karimunjawa National Park. The drilling activity affected the clean water supply in the dry season, in which water springs began to dry. It was predicted that the local people will no longer have access to the water if the drilling continues and the resorts and hotels grow in numbers.

2.2 State obligation and responsibility for clean water availability in Karimunjawa Islands

Dynamic development of and change in aspects of life, nationwide or worldwide, have contributed to the shortage of water resources due to severe crises. The change in land function and environmental destruction have worsened the situation and damaged the water quantity and quality. The population boom and economic growth need more supplies of water than ever before.

In terms of Indonesia, the use of water must be monitored and supervised by the government because water is a *res commune*. It is what the 1994 Constitution requires in Article 33(2) and 33(3), along with Article 28H, in which water is part of human rights with non-derogable nature. Furthermore, Indonesia has also ratified ICESCR in the Law 11/2005. At international level, in addition to the ICESCR, the right of water has been also pointed by the General Comment No. 15 (2002) adopted by the UN Committee on ECSR entitled 'the right to water'. Some of these legal norms, either at national or international scales, have exemplified the legal stance of the right to water as part of the human rights. In consequence, the state has obligation to

respect, to fulfill, and to protect the right to water of everyone indiscriminately [7].

Concerning the water management in the Karimunjawa Islands to fulfill the needs for water, it is important to notice that the islands have difficulties to find the water sources. The limited supply of water at the conservation area must be taken account seriously and wisely. The government has a responsibility for performing five duties as follows:

Firstly, the government, i.e. Local Government of Central Java and Local Government of Jepara Regency, have responsibilities for determining a policy line (*beleid*) on the water use in the Karimunjawa Islands. The policy made by the Local Governments should not be apart from legal politics already required by the 1945 Constitution, in particular Article 33(2) and 33(3). It means that the policy on the water use in Karimunjawa Islands must consider the aspect of right fulfillment while consistently protecting the forest sustainability as the main sources of the water. The local governments must firmly decide what can be done or what cannot be done by the local people towards the access to water. The geographical condition where the water supply in the Karimunjawa Islands is situated makes the islands depend on the forest as the major water supplier. A clear and rigid regulation is necessary to fill technological gaps applied by the local people to access the water.

Secondly, the state as the possessing party must establish and decide regulation (*regelendaad*). In case of the water use in Karimunjawa, no regulation has been made by either provincial or regency governments. Therefore, daily and business activities related to the water use in the islands have not been under control. The regulation is greatly needed to manage the access to the water towards its sustainability.

Thirdly, the state has a mandatory to take a provision (*bestuursdaad*), which means that it must fulfill the water need in Karimunjawa Islands, in particular the local governments. Even though in the context of the water management the responsibility is within the hand of the government, but the Letter of Decree on Karimunjawa Islands also requires a concerted work between the local government and the local communities at the district level by establishing a work unit and license from the Karimunjawa National Park Office. They represent the government at the local level and facilitate the need for water. However, the differentiation between the household need and business need (for resort and hotel) has not been explained and regulated.

Fourthly, the state has a responsibility for management (*beheersdaad*) as required by the previous paragraphs that the water management in Karimunjawa Islands have not been directly performed by the government. Instead, it is managed by a self-sufficient local dwellers.

Fifthly, the state, in performing the rights of water possession, is responsible for monitoring (*toezichthoudensdaad*). Hence, because the water sources are situated in the Karimunjawa National Park, the monitoring is performed by District Government and

the Karimunjawa National Park Office, in particular those concerning license prolongation.

3 Conclusion

Karimunjawa Islands do not have plenty of water sources. The limited supply requires a wise management by considering fair distribution while paying attention to environmental sustainability. No policy has been made on the water resources and its sustainable use in the Karimunjawa Islands.

Water management in the Karimunjawa Islands, in particular those related to distribution for the local people need, was still managed locally by the local people under the permission of the District Government and the Karimunjawa National Park Office. No regulation has been established for water use and water access. The differentiation between the household need and business need (for resort and hotel) has not been explained and regulated.

References

1. Irianto, *Air dan Perubahan Iklim Global*, Kompas, 10 Juni 2003.
2. Bagir Manan, *Politik Perundang-undangan Dalam Rangka Mengantisipasi Liberalisasi Perekonomian*, Makalah FH UNILA, Lampung, 1996.
3. Nanik Tri Hastuti, *Community Development* di Sektor Pertambangan Ditinjau dari Konsep Negara Kesejahteraan, *Masalah-Masalah Hukum FH UNDIP*, Vol. XXXIII No. 1 Januari-Maret 2004.
4. Raja Siregar, *Privatisasi Air*, dalam WWW.Wahli.or.id.
5. Decree of Constitution Court Number : 85/PUU-XI/2013.
6. Yance Arizona, *Konstitusionalisme Agraria*, (Yogyakarta : STPN Press, 2014).
7. Rahayu, *Hukum Hak Asasi Manusia*, (Semarang : Badan Penerbit Universitas Diponegoro, Edisi Revisi 2015).
8. Adji Samekto, "Perkembangan Reranca Kajian Hukum", Orasi Ilmiah yang Disampaikan pada Dies Natalis Ke-48 Fakultas Hukum UNDIP di Semarang pada 9 Januari 2005.
9. Laporan Akhir "Kajian Nilai Ekonomi Pemanfaatan Sumber Daya Air Taman Nasional Karimunjawa" tahun 2010.
10. Robert J. Kodoatie and Roestam Sjarief, *Tata Ruang Air*, (Yogyakarta : Penerbit Andi, 2010).
11. Kodoatie, Robert dan M. Basoeki, *Kajian Undang Undang Sumber Daya Air*, (Yogyakarta : Andi Offset, 2005).

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PAGE 1

PAGE 2

PAGE 3

PAGE 4
