# Environmental Law Enforcement in Illegal Mining Cases in Indonesia

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### **Environmental** Law Enforcement in Illegal Mining Cases in Indonesia

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#### Abstract

The issue of illicit mining in the Republic of Indonesia has garnered heightened scrutiny due to its detrimental impacts on the ecosystem, natural resources, and indigenous populations. The illicit extraction of minerals has resulted in the contamination of water sources, the destruction of forests, the deterioration of habitats, and the decline of biodiversity. In order to address these concerns, it is imperative to conduct research on the efficacy of enforcement mechanisms pertaining to environmental legislation in deterring illegal mining activities. This research is essential for the formulation of enhanced and grageted policies aimed at preserving Indonesia's biodiversity. Hence, the principal objective of this study is to examine the enforcement of environmental law 25 instances of illegal mining in Indonesia. In conducting this legal research, data was collected from various primary and secondary sources and subsequently subjected to content analysis. The present investigation employed a normative research methodology for data collection. Therefore, it is evident that Ind(28) sia's extensive regulatory framework, encompassing environmental legislation, plays a crucial role in maintaining environmental standards, regulating mining activities, and addressing the pervasive issue of illegal mining. To effectively mitigate unlawful mining activities and safeguard the invaluable biodiversity for future generations, it is imperative for the nation to demonstrate a steadfast commitment to strengthening existing legal frameworks. However, the implementation of environmental law in cases of illicit mining often faces numerous social, political, and financial challenges. Due to the complex nature of these interrelationships, comprehending the isolated impacts of act of law implementation posed a challenge.

Keywords: Environmental Law; Indonesia; Mining; Environmental Impact Assessment (EIA)

#### 1. Introduction

Engagement in mining operations requires the procurement of a mining business permit, which serves as a vital legal document in the domain of governmental

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governance. Permits serve as a crucial mechanism through which governmental authorities can ensure legal compliance and carry out their responsibilities with efficacy (Tilot et al., 2021). In a general sense, permits are encompassed by the domain of state administrative law, functioning as instruments by which particular regulations are implemented in a concrete fashion. The regulations outlined in this document are established in alignment with legal provisions, specifying the necessary criteria and procedural measures for adherence (Waskito et al., 2019). Undertaking mining operations without the necessary authorization, commonly known as illegal mining, not only entails financial consequences for the government but also gives rise to a wide range of complex issues (Cornelissen et al., 2019).

The aforementioned concerns encompass a range of pressing issues, including environmental degradation, social unrest, criminal behaviour, economic inequalities, and the potential exacerbation of poverty. In specific geographical areas, the occurrence of illegal mining has the potential to negatively impact public security and order, posing considerable challenges to the existing socio-political environment (Kristiawan, Wahyuningsih, & Suharto, 2018). The field of mining law is closely linked to environmental law, as mining enterprises, whether they involve general mining or the extraction of oil and gas, are obligated to protect the longterm ecological capacity and resilience. The preservation of environmental functions is a commitment that is frequently cited as such (Harinda et al., 2021). In the present context, permits function as official authorizations bestowed by the government in adherence to legal statutes or governmental regulations. Under specific circumstances, they are issued to deviate from established statutory prohibitions.

It is important to highlight that mining concerns encompass more than just foreign exchange considerations. Permits, which serve as a tangible representation of governmental regulation over mining operations, play a crucial role in ensuring compliance with environmental legislation (Larasati et al., 2022). As reported by Tegnan et al. (2021), Indonesia has implemented legislative measures concerning mining activities and environmental conservation, which are supplemented by a diverse array of regulations aimed at addressing these issues. However, despite the widespread adoption of these legal mechanisms, there has been no discernible decrease in the occurrence of corruption or environmental degradation. On the contrary, it has been noted that governmental authorities frequently exhibit leniency towards proprietors operating within the mining sector who fail to comply with stringengenvironmental regulations. Hamidi (2019) investigated the intricate connections between mining management, regional autonomy, environmental concerns, and corruption.

This study reveals a significant occurrence of mismanagement in the field of mining management during the decentralisation era. Mismanagement is closely associated with a decrease in the governance index for mining management within the sector. Moreover, the mismanagement discussed herein pertains to cases of corruption observed in the process of granting mining licences to businesses (Navisa & Ashsharofi, 2023). The matter at hand is inherently connected to the governmental jurisdiction in regulating the mining industry, which includes various facets such as the granting of mining licences and the oversight and administration of mining revenues. The susceptibility mentioned is further intensified by the inherent uncertainty that is commonly associated with bureaucratic services and public administration within the political-governmental framework. The corruption witnessed within the mining industry is frequently classified as state-captured corruption, wherein a limited and influential group of political figures, bureaucrats, and business magnates exercise control (Mbalane, 2021). These actors often possess considerable power, financial assets, and political clout, thereby exacerbating the problem.

Additionally, the absence of integrity in the private sector makes the problems worse (Nguyen et al., 2021). Although corruption in the mining sector is not a new occurrence, scholarly investigations on this topic have emerged relatively recently. Marshall (2001) differentiates between private and public corruption within the mining sector and highlights that the pervasiveness of corruption is contingent upon various factors, including the interplay of supply and demand dynamics. The genesis of contemporary environmental legislation in Indonesia can be attributed to the early 1980s, primarily with the enactment of Law No. 4/1982, commonly referred to as the Basic Provisions on Environmental Protection. The aforementioned legislation provided a fundamental structure for endeavours aimed at safeguarding the environment. Following that, further environmental legislation was enacted, namely Law No. 5/1990 and Law No. 24/1992. The enactment of Law No. 4/1982 served as comprehensive legislation, requiring the development of supplementary rules and regulations to guarantee the efficient implementation of environmental protection measures.

In conjunction with these legislative advancements, the government also implemented substantial regulations, including those pertaining to environmental impact analysis and the prevention of water pollution(Appleby et al., 2021). The objective of this study is to analyse and assess the efficacy of environmental law enforcement measures in Indonesia in relation to illegal mining activities. This will be achieved by examining the regulatory framework, enforcement mechanisms, and their impact on mitigating environmental degradation and promoting sustainable mining practises.

#### 2. Literature Review

#### 2.1 Environmental law

According to a study conducted by Choy et al. (2023), the primary approach for compelling businesses to internalise the adverse externalities associated with environmental degradation is through the implementation of public regulatory enforcement. While the efficacy of enforcement measures may be limited due to resource scarcity or regulatory capture, there is an increasing consensus that collaborative endeavours involving both the public and private sectors are imperative for tackling avironmental issues (Zhao et al., 2022). However, the precise manner in which public and private environmental monitoring intersect to mitigate corporate pollution remains uncertain (Shi et al., 2021). This study aims to address the existing knowledge gap by investigating the impact of public environmental regulation on the monitoring efforts of private lenders and the effectiveness of these efforts in mitigating corporate pollution. The emphasis on



monitoring private lenders is driven by the significant impact of sustainable finance on promoting environmental objectives as well as the lenders' ability to exert influence over borrowers' activities through loan covenants.

The argument we propose suggests that increased public enforcement of environmental regulations motivates lenders to actively supervise their borrowers' pollution-related actions. This is primarily because of the enhanced benefits associated with such monitoring. Firstly, there exists a positive relationship between the strength of public enforcement and the increase in environmental liabilities and credit risks faced by borrowers. This phenomenon can be attributed to the effectiveness of stringent regulatory bodies in identifying environmental violations and imposing penalties on the individuals or of anisations responsible (Börzel & Buzogány, 2019). Therefore, the effectiveness of lender monitoring in reducing borrowers' environmental liabilities becomes more evident, particularly when borrowers are involved in significant pollution (Wu et al., 2020).

Additionally, the implementation of public enforcement measures can effectively enhance the environmental responsibilities of lenders, especially when lenders are perceived to hold a managerial role. In such circumstanc financial institutions may bear responsibility for addressing environmental contamination on reproperty used as collateral for loan agreements. As a result, the significance of lender monitoring in reducing their own vulnerability to environmental liabilities is further amplified in correlation with the level of public enforcement endeavours. Brazil utilises a diverse array of policy instruments to effectively manage its forest resources, encompassing a wide spectrum of measures.

The aforementioned measures encompass the regulatory framework, which includes significant components such as the National Environment Policy and the Forest Code, in addition to endeavours focused on law enforcement. Furthermore, the management strategy encompasses the incorporation of indigenous territories and protected areas, which are provided assistance through intergovernmental fiscal transfer mechanisms from state to municipal governments. Additionally, forest monitoring systems and programmes for compensating environmental services are implemented as part of this strategy (Tacconi, Rodrigues, & Maryudi, 2019).

#### 2.2 Law enforcement and illegal mining

The policies formulated in Brussels by the European Union (EU) require both legal integration and effective implementation within its member states. In principle, European Union (EU) law holds primacy over descriptions and established customs (Börzel & Buzogány, 2019). Nevertheless, it is important to note that there is a significant amount of variation observed in terms of compliance with EU law when considering factors such as time, nations, and policies. In recent decades, there has been a notable focus in scholarly literature on the examination of a perceived increasing difficulty in attaining compliance within the European Union (Treib, 2021). Qualitative inquiries commonly explore the policy practices utilised within specific states that impact the legal adoption or rejection of EU policies, as well as their practical execution or lack thereof. Prior to examining particular theoretical frameworks concerning the implementation of laws and regulations, it is imperative to present a succinct summary of the administrative procedures inherent in enforcement.

Enforcement involves the process by which state institutions develop and establish laws through the practice of rulemaking, followed by the allocation of resources to ensure compliance with these regulations. In order to comprehend the intricacies of enforcement, it is imperative to recognise the necessity of clearly articulating rules to enhance the efficacy of enforcement, as explicated by Robinson et al. (2021). In addition, the implementation of enforcement measures requires the creation of an administrative framework that includes law enforcement agencies and other security forces. This infrastructure should possess the ability to carry out their assigned responsibilities in a synchronised and effective manner (Robbins, 2019). Furthermore, it is imperative for the state to allocate an adequate number of resources in order to effectively support and facilitate enforcement endeavours.

The above mentioned prerequisites serve as the basis for theoretical frameworks that are intended to assess the effectiveness of enforcement mechanisms. While the primary objective of enforcement is to promote compliance, empirical research suggests that achieving absolute deterrence is an infrequent occurrence. As noted by Albers (2019), effectively preventing all occurrences of illegal activities can be a formidable task. Hence, the primary objective of environmental enforcement strategies commonly revolves around augmenting the efficacy of procedure measures to discourage illicit activities. In the opinion of Robinson et al. (2019), there is a positive correlation between increased deterrence and a greater level of compliance in relation to the amount of enforcement effort exerted.

There exist two overarching methodologies for the implementation of environmental regulations (Asner & Tupayachi, 2017). The initial approach focuses on the implementation of sanctions and deterrence measures, whereas the subsequent approach is centred on fostering compliance and promoting cooperation. Both approaches encompass fundamental enforcement measures, including identification, interception, legal proceedings, and subsequent conviction. Nevertheless, these two entities diverge in terms of their principal focus. A sanction-based approach is characterised by the use of compulsion and coercion as means to enforce regulations, whereas a compliance-based approach places emphasis on fostering cooperation and adherence to the rules.

Fundamentally, although Indonesian legislation has integrated fundamental principles pertaining to the safeguarding of the environment, the successful execution of these regulations continues to pose a formidable obstacle. Law No. 32/2009 can be used as a point of reference by law enforcement agencies in their endeavours to apprehend individuals or estities accountable for causing environmental damage. The primary provision of Law No. 32/2009 delineates a harmful act towards the environment as one that exceeds the established parameters for environmental harm, underscoring the presence of said parameters from their inception. In addition, Article 97 of the aforementioned legislation lays the groundwork for the imposition of penalties on individuals or entities implicated in acts leading to environmental degradation. According to Law No. 32/2009, the responsibility for overseeing businesses and activities pertaining to environmental protection and management is assigned to ministers and regional leaders, including governors, regents, and mayors (Wahab, 2021).



#### 3. Method

The primary objective of this study is to investigate enforcement of environmental laws in instances of illegal mining in Indonesia. The objective of this study is to examine the diverse legal and psychological elements that influenced the enforcement of environmental laws in instances of illegal mining in Indonesia. In order to accomplish the objective of this research, a qualitative research methodology was selected due to its ability to provide a comprehensive understanding of the issue from multiple perspectives. The preference for qualitative research methods stemmed from their ability to comprehensively investigate the complex dimensions of law enforcement and public management. Furthermore, the research methodology employed in this study embraced a positivist research philosophy, which prioritised the objective observation and quantification of knowledge.

The study utilised the inductive research methodology to establish a theoretical and conceptual comprehension of the legal dimensions associated with crisis-driven law enforcement. Considering the inherent characteristics of the research field, a normative juridical framework was deemed appropriate due to its consideration of the practical implementation of legal principles and regulations. Additionally, this approach provides a theoretical framework for the examination of legal factors and concerns in diverse public contexts. This study employed both primary and secondary data sources. The primary sources of data for this research consisted of scholarly journals and relevant books, which facilitated a comprehensive analysis of the existing knowledge and theoretical framework within the field.

To acquire primary information, additional methods of data collection were employed, including surveys and interviews. In order to conduct a comprehensive and contextually relevant examination of the subject matter, the research incorporated secondary sources such as official legal documents, reports, and specialised legal frameworks that directly pertained to the emergencies in Indonesia. The utilisation of a combination of primary and secondary sources facilitated a comprehensive analysis of the subject matter, encompassing a diverse range of perspectives and dimensions. Relevant data was obtained by accessing online databases such as Wiley Online, West Law, and JSTOR. The method of content analysis was utilised to quantitatively assess, analyse, and derive significant findings from the gathered data.

#### 4. Results

#### 4.1 Environmental Law in Indonesia

Indonesia, a country characterised by its archipelagos and abundant natural beauty, has undertaken a comprehensive approach to address its environmental challenges through the implementation of a diverse array of regulations, policies, and legislative measures (Nurhidayah & Alam, 2020). The bedrock of the country's environmental regulatory framework is the Environmental Law enacted in 2009. The statute delineates several key concepts, including the principle of precaution, the polluter-pays principle, and the promotion of sustainable development. A comprehensive framework for ecological management and conservation at the national level. The framework highlights the importance of achieving a harmonious equilibrium between environmental preservation and economic growth (Suhaidi et al., 2022).

The Environmental Impact Assessment (EIA) Regulation plays a crucial role in addressing and minimising adverse environmental consequences resulting from developmental endeavours. This regulatory framework is underpinned by the Environmental Law enacted in 2009. Prior to obtaining clearance, it is necessary to subject activities that have the potential to harm the ecosystem to thorough reviews. The aforementioned assessments facilitate the detection of potential risks and the formulation of measures to mitigate them, ensuring that developmental endeavours are conducted in an ethical manner (Kurniawan, Murayama, & Nishikizawa, 2021). Moreover, the vast forests of Indonesia represent a critical global resource. Two examples of regulatory measures that govern forestry operations are the Timber Legality Verification System and the Forestry Law. The objective of these regulations is to exert authority over the production and exchange of timber, with the aim of curbing unauthorised logging activities, enhancing forest conservation efforts, and safeguarding biodiversity (Acheampong & Maryudi, 2020).

In addition, Indonesia has enacted several regulatory measures aimed at managing its maritime resources as a response to the country's extensive coastline and abundant marine biodiversity. The enactment of the Marine and Fisheries Law of 2014 has facilitated the implementation of measures pertaining to marine conservation, fishery management, and the combat against illegal fishing activities. The aforementioned legislation underscores the importance of proficiently administering maritime resources (Tienh et al 142021). Moreover, the 2004 Water Resources Law primarily focuses on ensuring equitable access to water resources and promoting sustainable water management practices. The regulatory framework governs the allocation and utilisation of water resources across various sectors, encompassing agricultural, industrial, and domestic applications. The primary objective is to ensure the safety and responsible utilisation of water resources (Suntana, 2021).

Moreover, Indonesia harbours a rem 24 kable array of biodiversity on a global scale. The country in question is a signatory to the Convention on Biological Diversity and has implemented legislation to safeguard and effectively govern its natural resources. The legislative measures encompassing the Biodiversity Conservation Law of 1992, along with the Nagoya protocol pertaining to access and benefit-sharing, have been identified as significant components (Rourke, 2018). The effective enforcement of environmental acts and regulations is of paramount importance. To ensure adherence to regulations and penalise violators, Indonesia has established vargous institutions, such as the Environmental Impact Management Agency and the Ministry of Environment and Forestry. In order to engage in responsible decision-making, it is imperative to conduct regular environmental assessments and maintain a system of reporting (Tacconi, Rodrigues, & Maryudi, 2019)

Further, Indonesia exhibits a high vulnerability to the impacts of climate change, including rising sea levels and extreme weather events. The country has implemented various policies and programmes, such as the Blue Carbon Initiative (Dalimum the, Putri, & Prasojo, 2022) and the Low Carbon Development Initiative, in order to reduce greenhouse gas emissions and mitigate the impacts of climate change. These efforts reflect the nation's commitment to international climate action(Udemba, Güngör, & Bekun, 2019).



#### 4.2 Environmental Law Enforcement in Illegal Mining in Indonesia

The proliferation of illicit mining activities across Indonesia has become a significant concern from both a socioeconomic and ecological standpoint, posing threats to its ecosystems and biodiversity (Salman, Upe, & Andi Agustang, 2019). Indonesia has developed an extensive regulatory framework to tackle this issue, comprising a range of legislation and regulations designed to uphold environmental norms, regulate mining activities, and deter unauthorised mining operations (Tegnan et 20 2021). The primary legislation governing mining activities in Indonesia is the Mineral and Coal Mining Law of 2009 (Law Number 4/2009). The acquisition of mining licences, authorizations, and concessions is delineated in the fifth article, with a particular emphasis on adherence to environmental regulations (Tegnan et al., 2021).

Prior to commencing mining activities, mining companies are obligated under Article 102 to conduct Environmental Impact Assessments (EIAs), which serve to ensure the implementation of ethical mining practices and the consideration of environmental factors (Sabowo & Siswanto, 2023). The Environmental Law of 2009, also known as Law Number 32/2009, establishes a comprehensive legislative framework aimed at protecally given the environment across various sectors. This law serves as a complement to the Mineral and Coal Mining Law. In order to ensure a balance between the expansion of revenue and the preservation of the environment, Article 3 establishes fundamental principles, including sustainable development and the polluter-pays principle (Toumbourou et al., 2020). Article 62 of the legislation delineates the prescribed punishment for offences committed against the environment, thereby enabling the legal system to hold individuals accountable for the ecological damage resulting from unauthorised mining operations. Article 9 delineates the requirements for Environmental Impact Assessments (EIAs) (Ho & Reksa, 2023).

The EIA Ordinance, as stipulated by Government Regulation Number 27/201177 is a crucial instrument derived from the country's Environmental Law, serving as a fundamental tool for the effective implementation of sustainable practices within the mining sector (Hadi, Hamdani, & Rozigin, 2023). According to Putri (2022), Article 3 delineates the criteria for conducting Environmental Impact Assessments (EIAs), ensuring their comprehensive nature. Article 26 of the legislation introduces penalties for non-compliance with Environmental Impact Assessment (EIA) standards, thereby establishing a structured mechanism for prosecuting individuals engaged in unauthorised mining activities (Sitompul, 2021). Moreover, the extensive forests in Indonesia are predominantly susceptible to unauthorised mining activities, often leading to the detrimental consequences of deforestation (Francesconi, Vanegas-Cubillos, & Bax, 2022). Although Article 50 of the Forestry Act (Law Number 41/1999) does not explicitly mention unlawful mining, the issue of illicit logging is often associated with unlicensed mining operations. The legislation is augmented by regulations pertaining to the certification of wood legality, which serve to govern the processes of wood production and trade with the overarching objective of preserving the ecosystem and forests. (Sahari, 2022).

Furthermore, it has been observed that illicit mining activities have the potential to infiltrate marine environments, posing a significant threat to both fishing resources and the delicate balance of aquatic ecosystems (CAHYANINGSIH et al.,

2022). The legal provisions regarding fishing permits in aquatic and marine areas affected by illicit mining are outlined in Article 17 of the 2014 Marine and Fisheries Act (Law Number 32/2014). The penalties for engaging in illegal fishing are delineated in Article 87. These same penalties can also be emplised to deter unauthorised mining activities in similar areas (Muawanah et al., 2018). Fur sermore, it is important to note that according to Article 79B of Act Number 45/2009, which pertains to the amendment of Law Number 31/2004 concerning Fisheries, the engagement in mining activities within fisheries zones is strictly prohibited.

Moreover, this provision also emphasises the legal consequences that individuals involved in unauthorised mining operations may face in maritime regions, as highlighted by Sahri et al. (2020). The Water Resources Act (Law Number 7/2004) addresses the management and conservation of water resources in cases where illicit mining activities result in harm to water sources or disruption of aquatic ecosystems (Pertamsari & Munandar, 2020). Furthermore, it is imperative to implement stringent measures to safeguard national parks and other protected areas in Indonesia from unauthorised mining activities. The regions are officially designated and safeguarded through a series of legal measures, including Government Regulation Number 68/1998 concerning the establishment and management of National Parks, as well as Government Regulation Number 8/1999 pertaining to the establishment and management of Aquatic National Parks. These regulations aim to shield unique natural habitats from the detrimental consequences of unregulated mining activities.

The preservation of biodiversity is a key objective of Government Regulation Number 45/1998, which is focused on safeguarding plant and animal species in ecologically sensitive region (Sahri et al., 2020). Legislative measures such as the 1992 Biodiversity Conservation Ordinance (Act Number 5/1992) and international agreements like the Nagoya Protocol, which pertain to access and benefit sharing, serve to protect Indonesia's extensive biodiversity. Legislation and regulations are of paramouzi importance in safeguarding vulnerable ecosystems against the adverse impacts caused by illegal mining activities (Nomani et al., 2020). In addition, the mitigation of ecological harm resulting from irresponsible mining practices necessitates effective waste management, as stipulated by legal frameworks such as Government Regulation Number 81/2012 on Waste Management and Minister of Forestry and Environment Regulation Number 56/2015 on Toxic Waste Management (Fikri et al., 2021).

Further, Indonesia has established institutions such as the Environmental Impact Management Agency (Afsah, Laplante, & Wheeler, 2019) and the Ministry of Environment and Forestry to ensure the efficient implementation of these regulations (Andini & Purnaweni, 2019). These organisations are responsible for conducting inspections, overseeing compliance with environmental regulations, and imposing penalties on violators. The implementation of enforcement measures encompasses the systematic monitoring and dissemination of ecological data, which plays a pivotal role in overseeing mining activities to ensure their adherence to environmental mandates (Ekawati et al., 2019). Moreover, certain provisions within Indonesia's Criminal Code (KUHP), specifically Articles 378–386, pertain to offences committed against



ecosystems and natural resources, thereby providing the legal basis for holding accountable those individuals involved in illegal mining activities (Rohman, 2020).

#### 5. Conclusion

Therefore, it has been noted that the prevalence of illicit mining in Indonesia has become a pressing issue due to its escalating scale and detrimental impact on the ecosystem. The nation's fragile ecosystems are experiencing significant negative effects due to the extensive practice of illegal mining, resulting in deforestation, water contamination, and the loss of biodiversity. The present research study has undertaken an investigation aimed at safeguarding and preserving the natural resources of Indonesia.

Hence, the present study expounded on the crucial role played by the enforcement of environmental law in addressing the issue of illicit mining in Indonesia, emphasising its significance in safeguarding as to country's natural resources and ensuring the well-being of its inhabitants. The adverse impacts of illegal mining on the environment and society necessitated the implementation of robust measures and collaborative endeavours. This study aims to assess the efficacy of environmental law enforcement strategies in Indonesia to mitigate illegal extraction activities. The implementation of environmental laws by authorities has contributed to achieving certain levels of success in combating illegal mining activities. Ultimately, the study put forth several dimensions that warrant further investigation in future research.

#### 6. Implications

The present study has demonstrated efficacy in yielding numerous implications that enhance its overall utility. The present study entails several legal consequences:

#### 6.1 Theoretical Contributions

The present research study has addressed the existing gaps in the literature. This study has directed its attention towards the multifaceted concerns and complexities associated with illegal mining activities in Indonesia, a country known for its diverse ecosystems and environmental vulnerability. The research study has provided evidence regarding the extent of environmental degradation, habitat loss, deforestation, and water pollution caused by illegal mining activities. This comprehensive analysis sheds light on the significant damage inflicted upon the natural resources of the country. Additionally, the research study has brought attention to the socioeconomic ramifications of illicit mining, particularly for indigenous communities and local populations. The situation has brought attention to the adverse effects on individuals' means of subsistence, overall welfare, and communal cohesion. This underscores the need for more extensive and all-encompassing measures that consider the social welfare of the affected populations.

#### 6.2 Practical Implications

The research has fostered a culture of collaboration and facilitated the exchange of information among multiple stakeholders. Practical implications encompass the establishment of task forces and collaborative initiatives that foster cooperation between government organisations, indigenous communities, and environmental groups. The implementation of this collaborative approach has the potential to effectively address the issue of illegal mining through enhanced coordination, resource consolidation, and shared expertise, thereby enhancing the overall effectiveness of enforcement efforts. Moreover, a significant emphasis on community engagement and awareness campaigns has yielded concrete results. Residents residing near mining sites have become increasingly cognizant of the perils associated with illegal mining activities. This heightened awareness has empowered them to promptly report any violations to the appropriate authorities and actively refuse engagement in such illicit operations. The development of community-driven reporting channels has the potential to enhance the responsiveness of law enforcement agencies.

#### 6.7 Policy-related Implications

The study has underscored the significance of comprehensive legal reforms and policy updates to bolster Indonesia's regulatory framework governing mining operations. The policy implications encompass the need to revise and enhance current ecological and mining legislation to address contemporary concerns and align with international benchmarks. Potential measures to address the issue of illicit mining encompass the implementation of more stringent sanctions, streamlining permission procedures, and integrating advanced surveillance and enforcement technology. In addition, the policy implications encompass the allocation of financial resources towards enhancing the organisational capabilities of legal institutions. It is imperative for policymakers to accord high priority to the allocation of funds towards training initiatives, technological infrastructure, and personnel development to enhance the capabilities of environmental enforcement agencies.

#### 7. Limitations

Illegal mining often occurs in remote and restricted areas, posing difficulties for researchers to access these sites and carry out firsthand observations. The imposition of this constraint posed challenges in obtaining primary data and gaining a comprehensive understanding of the local circumstances. Furthermore, the prevalence of unreported and unacknowledged illicit mining activities can be attributed to a range of factors, such as corruption, limited availability of resources, and a lack of community support for mining endeavours. This phenomenon may have led to a skewed understanding of the matter.

Moreover, the matter of illicit mining is subject to constant evolution, encompassing both its techniques and its distribution. The task of conducting research that provides a comprehensive and enduring assessment of the effectiveness of environmental law implementation initiatives is rendered difficult due to this factor. Furthermore, the implementation of environmental law in cases of illicit mining often encounters challenges arising from social, political, and financial factors. Due to the complex nature of these interdependent relationships, discerning the specific impacts of law enforcement measures proved challenging. In conclusion, comparative research conducted in different locations or nations



provides valuable insights into the most effective strategies for implementing environmental laws. However, the scope of this comparative study may be constrained by variations in legal frameworks, cultural contexts, and the availability of data.

#### 8. Recommendations

The legal paper provides a comprehensive analysis of Indonesia's environmental laws and their enforcement mechanisms, leading to the formulation of several significant recommendations aimed at bolstering the country's environmental protection endeavours, with a particular focus on addressing the issue of illegal mining operations. It is imperative for Indonesia to place emphasis on enhancing its enforcement institutions responsible for the supervision and implementation of environmental legislation. To ensure the effective execution of oversight and enforcement responsibilities by these agencies, it is imperative to have sufficient staffing, resources, and authority.

Furthermore, the promotion of heightened collaboration among diverse government bodies, including environmental and law enforcement agencies, has the potential to streamline endeavours and mitigate jurisdictional challenges, ultimately augmenting the effectiveness of environmental law enforcement. The prioritisation of education and public awareness activities is imperative. Indonesia has the potential to cultivate a societal ethos centred around adherence to regulations and ecological accountability by means of disseminating knowledge and raising awareness among the wider populace, local communities, and relevant stakeholders regarding the significance of environmental preservation and the detrimental consequences associated with unlawful mining activities. Capacity-building programmes are crucial for equipping law enforcement officials, judges, and prosecutors with the necessary knowledge and skills to effectively address complex environmental issues in a professional manner.

Regular monitoring and reporting methods are crucial for the timely detection and enforcement of mining activities and their associated environmental impact, facilitating early discovery and intervention measures. One potential method to enhance deterrence against illegal mining activities is through the implementation of more severe penalties for violations of environmental regulations. To enhance community involvement, it is imperative to cultivate partnerships and engage stakeholders. To foster a sense of ownership and responsibility among individuals directly affected by mining operations, Indonesia can engage local communities in environmental conservation efforts and decision-making processes associated with mining activities. The imperative for collaboration with neighbouring nations regarding issues such as transboundary pollution and wildlife conservation is of utmost importance due to the transboundary nature of environmental challenges.

To enhance its dedication to the preservation of the environment and the promotion of sustainability, Indonesia should consider the integration of its legal system with international conventions and optimal methodologies. In summary, the adoption of these recommendations has the potential to significantly enhance Indonesia's dedication to environmental preservation and mitigation of the adverse impacts associated with illicit mining activities on its ecosystems and local populations.

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