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# Human Resource Management in Improving the Quality of Education in Elementary Schools in the Tropical Forest Area of Berau Regency

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Abstract: This study examines the role of human resource management (HRM) in enhancing the quality of education in elementary schools located in the tropical forest area of Berau Regency. Utilizing a qualitative case study approach, data were gathered through in-depth interviews, field observations, and document analysis to explore the unique challenges and opportunities faced by these remote educational institutions. The findings reveal that effective HRM practices, including comprehensive needs assessments, competency evaluations, and the development of contextual training programs, are crucial in addressing logistical constraints, infrastructural deficiencies, and high teacher turnover. A collaborative approach involving internal stakeholders—such as principals, teachers, and administrative staff—and external partners, including local government agencies and educational institutions, emerged as a key strategy for ensuring sustainable HR planning and organizational success. The study also highlights the importance of centralized leadership, supportive administrative frameworks, and continuous performance evaluations in fostering an adaptive and responsive HR system. These integrated HRM practices not only improve teacher motivation and professional development but also lead to better student outcomes and enhanced educational quality. The insights derived from this research contribute valuable evidence for policymakers, school administrators, and educators aiming to implement effective HRM strategies in similarly challenging environments, thereby offering a viable model for educational excellence in remote areas.

**Keywords:** Human Resource Management; Educational Quality; Elementary Education; Tropical Forest; Remote Areas; Professional Development; Stakeholder Collaboration; Organizational Structure; Case Study; Berau Regency.

#### INTRODUCTION

## Overall Challenges and Opportunities in Ensuring Quality Education, Particularly in Remote or Unique Environments Such as Tropical Forest Areas

Ensuring quality education in remote or unique environments, such as tropical forest areas, presents a complex interplay of challenges and opportunities. The geographical isolation and unique ecological contexts of these regions significantly influence the educational landscape.

One of the primary challenges in tropical forest areas is the lack of adequate infrastructure. Many schools in these regions suffer from insufficient facilities, such as classrooms, libraries, and sanitation. This inadequacy can hinder the learning process and affect student attendance and retention rates. The remoteness of these areas often complicates the delivery of educational resources, making it difficult for schools to obtain necessary teaching materials and technology. As highlighted by Setyadharma, et al., (2024), the quality of the and environment education levels are poor interconnected: thus, environmental conditions can exacerbate educational challenges.

Another significant challenge is the recruitment and retention of qualified teachers. Many educators are reluctant to work in isolated locations due to limited professional development opportunities and inadequate living conditions. This shortage of qualified personnel can lead to a

decline in the quality of education provided. Cultural and linguistic barriers also pose challenges in these regions, as tropical forest areas often have diverse cultural backgrounds. This diversity can complicate curriculum development and teaching methods, as educational content may not always resonate with local communities, and language barriers can hinder effective communication between educators and students.

Despite these challenges, there are numerous opportunities for improving education in tropical forest areas. One significant opportunity lies in community engagement. The unique cultural contexts of these regions present opportunities for local communities to become involved in educational initiatives, such as eco-education programs that integrate local knowledge and environmental stewardship. community involvement, schools can enhance the relevance of education and cultivate a sense of ownership among community Additionally, given the rich biodiversity of tropical forests, there is a significant opportunity to incorporate environmental education into the curriculum. Wu, et al., (2023) emphasize that environmental education can environmental quality and promote sustainable practices, thereby cultivating a generation that values and protects their natural surroundings.

Innovative teaching methods also emerge as a potential avenue for enhancing educational quality in these areas. The challenges of remote education can spur innovation, such as the use of digital technology and mobile learning to bridge gaps in resource availability. Insani, et al., (2023) suggest that eco-edutourism can create educational experiences that are both engaging and informative, providing students with hands-on learning opportunities while promoting conservation efforts. Furthermore. increased attention from governments and non-governmental organizations (NGOs) towards education in remote areas can lead to improved funding and resources. Collaborative efforts can facilitate the sharing of best practices and resources among schools, ultimately enhancing educational access and quality.

## The Importance of Effective Human Resource Management (HRM) in the Education Sector.

Effective human resource management (HRM) plays a crucial role in the education sector, influencing various aspects of educational quality and organizational performance. The importance of HRM in education extends beyond mere administrative tasks; it encompasses strategic initiatives that shape the overall learning environment and outcomes for both educators and students. One of the primary functions of HRM in education is the recruitment and retention of qualified teachers. As highlighted by Pagán-Castaño, et al., (2021), effective leadership and HRM strategies are essential for creating a supportive environment that fosters teacher wellbeing and professional growth.

By implementing comprehensive recruitment strategies and providing ongoing professional development, educational institutions can ensure that they attract and retain high-quality educators who are equipped to meet the evolving demands of the educational landscape. This is particularly important in the context of increasing educational standards and the need for innovative teaching practices. Moreover, HRM practices significantly impact organizational commitment and employee performance within educational institutions. Zámečník, et al., (2021) emphasize that the implementation of effective HRM practices enhances employees' existing knowledge and skills, encouraging their participation in innovative initiatives that can improve service delivery in educational settings (Zámečník, et al., 2021)

When educators feel supported and valued through effective HRM practices, they are more likely to be engaged and committed to their roles, which directly translates to improved student outcomes. Another critical aspect of HRM in education is the promotion of a positive organizational culture. As noted by (Opatha, 2019), HRM is a vital field that contributes to the overall effectiveness of educational institutions.

fostering a culture of collaboration, communication, and continuous improvement, HRM can create an environment where educators feel empowered to share ideas and best practices. This collaborative culture not only enhances teacher morale but also leads to better educational experiences for students. Furthermore, HRM plays a significant role in aligning educational goals with institutional strategies. Edgar, et al., (2024) discuss how sophisticated HRM strategies can enhance service delivery and educational outcomes by aligning human resources with the institution's mission and vision.

This alignment is crucial for achieving long-term success and sustainability in the education sector. In addition to these internal benefits, HRM also facilitates external partnerships and community engagement. By building strong relationships with stakeholders, including parents, local organizations. and government entities. institutions educational can enhance their resources and support systems. This collaborative approach can lead to innovative programs and initiatives that further enrich the educational experience for students.

#### **The Context of Berau Regency**

Berau Regency, located in East Kalimantan, Indonesia, is characterized by its rich biodiversity and extensive tropical forest areas. This regency has experienced significant environmental changes over the past decade, primarily due to deforestation driven by activities such as oil palm cultivation, logging, and mining (Aggraeni, et al., 2018). These changes not only impact the ecological balance but also have profound implications for the education sector, particularly for elementary schools situated in these unique environments. One of the primary challenges faced by elementary schools in Berau Regency is the lack of adequate infrastructure. Many schools are located in remote areas, making it difficult to access essential resources and facilities. The rapid population growth—nearly 20% since 2010—has put additional pressure on educational resources, leading to overcrowded classrooms and insufficient teaching materials (Aggraeni, et al., 2018)

The geographical isolation of these schools often results in limited connectivity, which further exacerbates the challenges of delivering quality education. Moreover, the environmental conditions in tropical forest areas can pose specific challenges for educational institutions. The heavy rainfall, which can reach up to 4,000 mm annually, affects not only the physical infrastructure of schools but also the health and well-being of students (Mustafa, et al., 2024)

Schools may struggle with issues related to sanitation and hygiene, which are critical for maintaining a conducive learning environment. Additionally, the ecological context can influence the curriculum, necessitating the integration of environmental education to foster awareness and stewardship among students. The socio-cultural dynamics of Berau also play a significant role in shaping the educational landscape. The diverse ethnic groups and languages present in the region can create barriers to effective communication and learning. Schools must navigate these complexities to create inclusive environments that cater to the needs of all students. The implementation of childfriendly school policies, as noted by Jannah and Hidayati (2022), is essential for fostering an inclusive atmosphere that supports the growth and development of every child.

these challenges, there opportunities for enhancing the quality of education in Berau Regency. The rich natural environment offers unique educational experiences that can be leveraged to promote environmental sustainability. awareness and Schools incorporate local ecological knowledge into their curricula, providing students with a deeper understanding of their surroundings and the importance of conservation efforts. Furthermore, community engagement can play a vital role in supporting educational initiatives, as stakeholders can contribute resources knowledge that enhance the learning experience.

#### **Problem Statement**

In the context of elementary schools, particularly in regions like Berau Regency, the effectiveness of human resource management (HRM) practices is critical for enhancing educational quality. However, several gaps and challenges persist in

current HRM practices that significantly impact the quality of education.

One of the primary challenges faced by elementary schools in Berau is inadequate recruitment and retention strategies. Many schools struggle to attract and retain qualified teachers due to ineffective recruitment processes that often lack transparency and efficiency. This leads to a mismatch between the skills of educators and the needs of the school. Research by Zámečník, et al., (2021) emphasizes that effective HRM practices are essential for introducing and implementing innovations in educational settings. Without a robust recruitment strategy, schools may find themselves with underqualified staff, which can adversely affect student learning outcomes.

Additionally, there is a significant lack of professional development opportunities teachers in these schools. Continuous professional development is crucial for educators to enhance their skills and adapt to new teaching methodologies. However, many schools do not provide adequate training programs or resources for teacher development. As highlighted by Sholeh, et al., (2021), professional organizations play a vital role in improving teacher quality through workshops and training. The absence of such initiatives in elementary schools can lead to stagnation in teaching practices and lower educational quality.

Another critical aspect of HRM in education is the limited performance management systems in place. Effective performance management is essential for evaluating and improving teacher effectiveness. Yet, many schools lack systematic performance evaluation mechanisms that provide constructive feedback and support for teachers. According to Rawis, *et al.*, (2024), HRM is a key element in enhancing productivity and engagement within educational institutions. Without proper performance management, schools may struggle to identify areas for improvement, leading to a decline in overall educational quality.

Moreover, weak organizational commitment among educators can create a negative school culture, where teachers are less motivated to engage with students and collaborate with colleagues. Zámečník, *et al.*, (2021) found that HRM practices significantly influence organizational commitment, which in turn affects educational performance. When teachers feel unsupported or undervalued, their commitment to

the school diminishes, negatively impacting student engagement and achievement.

The challenges in HRM practices directly affect the quality of education in elementary schools. Poor recruitment and retention strategies lead to a lack of qualified teachers, which can result in ineffective teaching and lower student professional performance. Insufficient development opportunities hinder teachers from improving their instructional methods, limiting students' learning experiences. Furthermore, the absence of effective performance management systems prevents schools from addressing issues related to teacher effectiveness, leading to a cycle of underperformance.

Despite the critical role of HRM in enhancing educational quality, existing literature on HRM practices in elementary education remains limited. While some studies have explored HRM's impact on higher education institutions, there is a notable deficiency in research focusing specifically on elementary schools and the unique challenges they face. For instance, while Rawis, et al., (2024) discuss the importance of HRM in educational institutions broadly, there is a lack of targeted studies that address the specific HRM needs and practices within elementary schools. Additionally, the existing literature often overlooks contextual factors that influence HRM practices in unique environments, such as tropical forest areas like Berau. Understanding these contextual challenges is essential for developing effective HRM strategies that can enhance educational quality. Therefore, further research is needed to identify best practices in HRM within elementary education, particularly in regions facing unique challenges, to inform policy and practice aimed at improving educational outcomes.

#### **Research Objectives and Questions**

The overall aim of this study is to evaluate the role of human resource management (HRM) in enhancing the quality of education in elementary schools located in the tropical forest area of Berau Regency. This research intends to provide a comprehensive assessment of current HRM practices within these schools, identify key challenges and success factors implementation, and ultimately propose strategic improvements based on the findings. By focusing on these aspects, the study aims to offer valuable insights into how effective HRM can bolster educational quality in unique and challenging environments.

To achieve this aim, the study is guided by two primary research questions. The first question examines how human resource planning is implemented to improve the quality of education in elementary schools in the tropical forest area of Berau Regency. This aspect of the study will explore how strategic planning, resource allocation, and goal setting within HRM contribute to educational outcomes. The second question investigates how human resource organization is conducted to enhance educational quality in these schools. This inquiry focuses on the structure, coordination, and management practices that ensure the effective deployment of human resources to meet educational objectives. Together, these questions provide a framework understanding the critical elements of HRM that can lead to improved educational quality in the region.

#### The Significance of the Study

The significance of this study lies in its potential to enhance the overall quality of education through improved human resource management (HRM) practices. For educators, refined HRM strategies can lead to better professional development opportunities, increased job satisfaction, and a supportive work environment that innovation in teaching methods. For school administrators, effective HRM practices offer a roadmap for efficient staff organization, better resource allocation, and streamlined operations, which are critical for managing schools in unique settings like tropical forest areas. Moreover, policymakers stand to benefit from the study by gaining evidence-based insights that can inform the formulation of policies and strategies aimed at elevating educational standards, especially in regions facing distinct environmental and logistical challenges.

Furthermore, the findings of this research are expected to contribute significantly to academic literature by filling gaps in current studies related to HRM and educational quality in non-traditional and remote settings. The study will provide a theoretical framework and empirical data that can be used to understand the impact of HR planning organization on educational outcomes. Practically, the research offers strategic recommendations that can be implemented in similar contexts, potentially serving as a model for other regions with comparable challenges. In this way, the study not only enriches scholarly discussions but also provides actionable strategies for educational improvement across diverse educational landscapes.

#### **METHODS**

### **Research Methodology**

This study employs a qualitative research approach deeply explore how human resource management (HRM) is implemented in elementary schools located in the tropical forest area of Berau Regency to improve educational quality. By using a case study method, the research investigates the local dynamics and specific factors that influence the effectiveness of HRM strategies. Data is collected through in-depth interviews, direct observation, and document analysis, allowing the study to uncover both the best practices and the obstacles encountered in managing human resources. This approach provides rich, contextual insights that are essential for developing practical recommendations to optimize HRM in these educational settings.

#### **Data Sources**

The study gathers qualitative data to gain an indepth understanding of HRM practices in the targeted elementary schools. Data sources include in-depth interviews with key stakeholders—such school principal, teachers. the administrative staff—which offer detailed insights into current HRM practices, the challenges they face, and the strategies they employ. Field observations complement these interviews by documenting daily interactions, work procedures, and the learning environment within the school. Additionally, official documents—such as the school's strategic plan, activity reports, and teacher performance evaluations—are analyzed to provide an understanding of the formal HRM policies and frameworks that are in place.

#### **Data Collection Instruments**

In this study, the researcher acts as the primary instrument for data collection, engaging directly with participants to observe and understand HRM practices in depth. An interview guide is developed to extract detailed information about HRM strategies, personal experiences in overcoming operational challenges, and approaches to address educational issues in the tropical forest context. An observation checklist is utilized during classroom and facility visits to systematically record the condition of educational infrastructure, interactions between teachers and students. and implementation of HRM practices. A document analysis format is employed to review and interpret key school documents, ensuring that formal policies are comprehensively examined. Additionally, audio recording devices are used to capture interviews and focus group discussions, while qualitative data analysis software, such as ATLAS.ti, assists in coding and analyzing the collected data.

## **Data Collection Techniques**

The study uses a combination of techniques to ensure a comprehensive collection of data. Indepth interviews are conducted with school administrators, teachers, and administrative staff to gather detailed insights into HRM practices such recruitment. selection. professional development, and performance evaluation. These interviews are conducted in a private and comfortable setting to encourage open and honest discussion, and they are recorded with the respondents' consent. Field observations carried out during school hours to document the practical application of HRM practices, including classroom dynamics, staff interactions, and the learning environment. Α observation checklist is used to ensure that all relevant aspects of HRM and school operations are systematically captured. Furthermore, document analysis is performed on key school documents such as strategic plans, activity reports, and performance evaluations—to understand formal HRM frameworks and their impact on school operations.

## **Data Analysis Techniques**

After collecting the qualitative data, it is transcribed and subjected to a systematic coding process. Initially, the data is broken down into smaller units called codes, which allows the researcher to identify recurring themes, patterns, and relationships. These codes are then grouped into categories based on their similarities, facilitating a more organized analysis. A thematic analysis follows, wherein major themes are developed to address the research questions and objectives. These themes are interpreted to gain deeper insights into how HRM practices impact educational quality. To ensure the validity of the findings, triangulation is employed by comparing data from interviews, observations, and document analysis. Additionally, the reliability of the analysis is enhanced through repeated reviews of the coding process by the research team and discussions with peers or mentors, ensuring that the interpretations remain unbiased and robust.

## FINDINGS AND DISCUSSIONS

## **Findings**

The findings indicate that the human resource planning process for enhancing educational quality in elementary schools within the tropical forest area of Berau Regency is both strategic and uniquely tailored to the local context. Interviews revealed that HR planning begins with a comprehensive identification of the school's specific needs and challenges. Given the remote location and limited accessibility, administrators first conduct a detailed needs assessment that considers both logistical constraints and the specialized demands of teaching in an environment rich in natural resources. Educators and administrators analyze the potential and competencies of current staff, evaluating pedagogical skills, technological proficiency, and the capacity to integrate environmental education into the curriculum. This initial assessment is critical as it sets the groundwork for a planning process that is both holistic and adaptive.

In addition to the initial assessment, the planning process is characterized by robust internal discussions and strategic collaboration among all stakeholders. The principal, teachers, administrative staff engage in intensive dialogues to determine the most effective strategies for professional development. One of the key involves contextualizing strategies training programs to address local challenges, such as adopting nature-based teaching methods and utilizing technology to overcome geographic barriers. Regular training workshops and professional development sessions implemented, with a particular emphasis on innovative pedagogical techniques that align with the region's environmental context. Furthermore, the school actively seeks external partnerships, collaborating with the local government, the Department of Education, and other educational collaborations institutions. These bring additional resources and expertise, ensuring that the HR planning process is supported by a wide network of partners who can offer specialized programs, technical support, and policy guidance.

The HR planning process is also structured around both short-term and long-term objectives. In the short term, efforts are concentrated on immediately enhancing teachers' core competencies, particularly in the areas of pedagogy and the integration of technology in the classroom. This includes initiatives aimed at increasing teacher motivation, reducing turnover, and fostering a collaborative environment among educators. In the long term, the goal is to develop a sustainable and adaptive HR management system that not only supports continuous professional development but also fosters an educational environment where teachers can nurture students' academic skills as well as their environmental consciousness. Despite significant challenges—such logistical as difficulties, varied teacher competencies, limited access to specialized personnel, high staff turnover, and budgetary constraints—the school's commitment to a flexible, responsive HR planning process remains steadfast.

The findings further reveal that the organizational management of HR at SD 001 Talisayan is structured in a manner that is both straightforward and effective, particularly given the unique challenges posed by its remote location in a tropical forest area. The organizational structure places the school principal at the center, where the principal not only makes strategic decisions but also serves as a facilitator and coordinator for HRrelated initiatives. This centralized role is complemented by the vice-principal, who manages administrative and managerial functions, and by subject coordinators who organize teachers based on their areas of expertise. Such a structure ensures that decision-making is both collaborative and responsive, allowing teachers to contribute to curriculum development and professional training programs actively. Administrative staff further support these efforts by efficiently managing data, finances, and logistics, thereby ensuring that the daily operations of the school run smoothly despite external challenges.

Evaluation of the HR organizational structure is conducted using a range of performance indicators. Key measures include student academic performance, the level of teacher participation in professional development activities, the quality of collaboration among staff members, and the feedback received from parents and the local community. The data collected from these evaluations demonstrate that a well-organized HR system contributes significantly to improved teaching methods, enhanced teacher capabilities, and, consequently, better student outcomes. Although the school continues to face challenges related to its remote setting, the collaborative approach among internal stakeholders, bolstered by external partnerships, has led to notable improvements in educational quality. Regular feedback and systematic evaluations are essential, as they facilitate continuous improvement of HR practices, ensuring that the organizational structure remains flexible and responsive to the evolving needs of the educational environment in the tropical forest region.

Overall, the research findings underscore the importance of a well-integrated and adaptive HR planning and organizational management system. The combined efforts of strategic internal planning, targeted professional development, and robust external collaboration not only address the immediate challenges faced by educators in remote tropical settings but also lay the groundwork for a sustainable model of educational excellence. This integrated approach enables the school to navigate logistical constraints, bridge competency gaps among teachers, and ultimately enhance the quality of education in a manner that is both innovative and contextually relevant.

The following tables present a thematic summary of the research findings on human resource management in elementary schools within the tropical forest area of Berau Regency. Table 1 encapsulates the key themes derived from the analysis of HR planning processes, highlighting the steps from needs assessment and competency evaluation to strategic collaboration, contextual training, external partnerships, and ongoing evaluation. Table 2, on the other hand, outlines the core themes related to the organizational structure of HR management, emphasizing centralized leadership, support systems, collaborative performance decision-making. evaluation. continuous improvement, and community involvement. Together, these tables offer a comprehensive overview of how strategic planning and effective organizational practices contribute to enhancing educational quality in this unique and challenging context.

Table 1: Thematic Summary of HR Planning Findings

Th	Page 1: Thematic Summary of I	5 5
Theme	Description	Key Findings / Supporting Evidence
Identification of	The planning process begins with a	Administrators conduct a detailed needs
Needs and	comprehensive identification of the	assessment that considers logistical constraints
Challenges	school's unique needs and	and the specialized demands of teaching in a
	challenges—especially those arising	natural-resource-rich environment. For instance,
	from its remote location and limited	one respondent noted that planning starts by
	accessibility.	identifying "needs and challenges faced by our
		school" in a remote area.
Competency	A thorough analysis is performed to	Teachers' skills are evaluated to ensure they can
Analysis	assess the potential and competencies	support nature-based teaching and modern
	of existing educators, focusing on their	educational methods. One interview excerpt
	pedagogical skills, technological	highlighted the analysis of "potential and
	proficiency, and ability to integrate	competencies of our educators" as a basis for
	local environmental content.	further development.
Internal	Intensive internal discussions among	Regular meetings and discussions are held to
Collaboration	the principal, teachers, and	align strategies with local conditions.
and Strategic	administrative staff help determine the	Respondents mentioned that the process
Discussion	most effective strategies for	"involves intensive discussions among all
	professional development and HR	stakeholders" to decide on appropriate
	management.	professional development steps.
Contextual	Training programs are designed	Training is prioritized to address local needs;
Training &	specifically for the local context,	one respondent explained that they "prioritize
Technology	emphasizing nature-based teaching	training relevant to the local context" such as
Utilization	methods and the effective use of	nature-based methods and technology use to
	technology to overcome geographical	reach remote areas.
	barriers.	
External	Collaboration with external agencies—	External partnerships provide access to
Collaboration	including the local government,	additional training, funding, and policy support.
	Department of Education, and partner	One interview quote stated that the school
	institutions—plays a crucial role in	"works with various external parties" to support
	supplementing internal planning efforts	HR planning through specialized programs.
	with additional resources and	1 6 6 1 1 8

	expertise.	
Regular	Ongoing evaluations ensure that the	The planning process includes routine
Evaluation and	HR planning process remains dynamic	evaluations to assess the effectiveness of
Flexibility	and adaptive to evolving educational	strategies. Respondents noted that evaluations
	needs and local challenges.	"assess the effectiveness of strategies and adjust
		plans as needed" to remain relevant.
Short-term &	HR planning is oriented toward	
Long-term	achieving both immediate	teacher competencies and motivation, while
Objectives	improvements in teaching	long-term objectives aim to establish a
	competencies and the development of a	sustainable HR system that fosters continuous
	sustainable, adaptive HR system for	
	long-term educational excellence.	on the dual focus: "short-term improvements
		and long-term system sustainability."
Stakeholder	The planning process is inclusive and	Involving a broad range of stakeholders helps
Involvement	participatory, engaging not only	ensure that programs are well received and
	internal staff but also parents and	contextually appropriate. As noted, the active
	community members to ensure that HR	engagement of parents and community in the
	development strategies are well aligned	planning process "ensures that HR development
	with local needs.	is aligned with local needs."

Table 2: Thematic Summary of HR Organization Findings

Theme	Table 2: Thematic Summary of HR Organization Findings  Way Findings / Summarting Evidence			
	Description	Key Findings / Supporting Evidence		
Centralized	The school principal plays a central	The principal is described as not only making		
Leadership	role in HR organization, serving as	strategic decisions but also actively facilitating		
	the strategic decision-maker,	discussions and collaborations. One interview		
	facilitator, and coordinator for all	excerpt noted that the principal "serves as both the		
	HR-related initiatives.	strategic decision-maker and facilitator" in HR		
G + G+	A 1	organization.		
Support Structure	A clear support system involving	The vice-principal supports administrative		
	the vice-principal, subject	functions while subject coordinators organize		
	coordinators, and administrative	teachers by specialty. Administrative staff manage		
	staff complements the principal's	data, finances, and logistics. Respondents		
	role, ensuring effective execution of	emphasized that this structure "ensures smooth		
	HR policies and day-to-day	operations and effective implementation of HR		
G 11 1	operations.	strategies."		
Collaborative	Teachers and other stakeholders are	Teachers participate in decision-making, which		
Decision-Making	actively involved in decision-	makes HR policies more responsive to on-ground		
	making processes regarding	needs. An interview quote mentioned that teachers		
	curriculum development and	are "involved in decisions related to curriculum		
	professional training, ensuring that	development and professional training" to ensure		
	HR policies reflect classroom realities.	practical applicability.		
Performance	The effectiveness of the HR	Evaluation measures include student academic		
Evaluation &				
Feedback	organizational structure is assessed using a range of performance	performance, teacher engagement in professional development, and feedback from parents and the		
reedback	indicators, including student	community. One respondent noted that improved		
	outcomes, teacher participation in	student performance and teacher participation		
	training, and feedback from the	serve as clear indicators that the HR organization		
	community.	is working effectively.		
Continuous	Regular reviews and evaluations	Ongoing evaluations lead to adjustments in HR		
Improvement	enable the school to continuously	strategies, ensuring that the organization remains		
	refine and improve its HR	effective. As one respondent stated, "we		
	organization, adapting to changing	continuously evaluate and refine our HR		
	needs and challenges over time.	organization to better support educational goals."		
External	External feedback from parents,	Regular meetings with parents and community		

Engagement and	community members, and partner	surveys provide valuable insights that inform HR
Community	organizations is integrated into the	improvements. An interview excerpt highlighted
Involvement	HR organizational process, ensuring	that "feedback from parents and the community is
	that decisions are responsive to	an important indicator of HR organizational
	broader educational needs.	success."

#### **DISCUSSIONS**

The findings from the study of SD 001 Talisayan illustrate a comprehensive and contextually aware approach to human resource (HR) planning and significantly organization that enhances educational quality, particularly in challenging remote environments. The HR planning process begins with a detailed assessment of the school's specific needs and challenges, which is crucial for tailoring strategies to the unique demands of teaching in a natural-resource-rich environment. This assessment includes identifying logistical constraints and evaluating the competencies of educators, focusing on their pedagogical skills, technological proficiency, and ability to integrate local environmental contexts into their teaching practices. This approach aligns with contemporary educational management theories that emphasize the importance of customizing professional development to reflect local realities and challenges. (Bryson, et al., 2020)

Active internal collaboration is a cornerstone of the HR planning process at SD 001 Talisayan. Regular discussions among the principal, teachers, and administrative staff ensure that the planning process is inclusive and adaptive. collaborative environment fosters a sense of ownership among educators and allows for the incorporation of diverse perspectives in decisionmaking. The implementation of contextual training programs that leverage technology and naturebased teaching methods directly addresses the inherent geographical and resource limitations faced by the school. Such training not only enhances educators' competencies but also enriches the learning experiences of students by making education more relevant to surroundings (Merchie, et al., 2016).

External collaboration further strengthens the HR planning process. Partnerships with local government agencies, the Department of Education, and other educational institutions provide vital support in terms of additional resources, specialized training, and policy guidance. This multi-stakeholder involvement enriches the planning process and helps secure the necessary support for implementing innovative HR strategies. The integration of routine evaluations

into the planning cycle ensures that the HR strategy remains dynamic, with both short-term objectives—such as enhancing teachers' core competencies—and long-term goals aimed at establishing a sustainable and adaptive HR system. Despite challenges such as high teacher turnover and limited budgetary resources, the flexible and participatory planning approach appears effective in creating a robust foundation for ongoing educational improvement (Keegan, et al., 2017).

In terms of HR management organization, the findings highlight a clear and streamlined structure that is particularly suited to the demands of a remote educational setting. Centralized leadership, with the principal at the helm, provides strategic direction and facilitates the cohesive implementation of HR policies. The support structure, which includes the vice-principal, subject coordinators, and administrative staff, ensures that administrative functions are handled efficiently, allowing academic staff to focus on professional development. teaching and Importantly, the active involvement of teachers in decision-making processes—especially concerning development and professional curriculum training—ensures that HR policies remain relevant and responsive to classroom realities. This collaborative model of HR organization is validated by performance indicators such as student outcomes, improved high teacher participation in training, and positive feedback from parents and the community (Bondarouk, et *al.*, 2015)

The evaluative process encompasses quantitative indicators, such as student performance metrics, and qualitative feedback from the school community, providing a continuous loop for improvement. This systematic evaluation not only validates the effectiveness of the current HR organizational structure but also necessary adjustments to informs emerging challenges. The commitment continuous improvement, as evidenced by regular performance reviews and stakeholder feedback, supports the creation of a resilient HR management system capable of evolving in response to changing educational needs and local conditions (Bondarouk, et al., 2016).

Overall, the integrated approach to HR planning organization in SD 001 Talisayan demonstrates that well-structured а contextually aware HR management strategy can significantly enhance educational quality, even in challenging remote environments. The study's findings contribute to both academic literature and practical strategies by illustrating how strategic planning, collaborative decision-making, continuous evaluation can create a sustainable excellence. model educational for This comprehensive discussion emphasizes that addressing local challenges through tailored HR practices is not only feasible but also essential for improving teaching quality and student outcomes in geographically isolated areas (Uysal, 2020)

#### **CONCLUSION**

This study investigates the multifaceted challenges and opportunities associated with providing quality education in remote tropical forest areas, using Berau Regency as a case study. The introductory discussion highlights the significant obstacles—such as inadequate infrastructure, difficulties in recruiting and retaining qualified teachers, and cultural and linguistic barriers—that impede educational progress in these unique environments. At the same time, the text emphasizes the potential for leveraging local environmental assets and community engagement to enrich educational experiences through eco-education initiatives and innovative teaching methods.

Central to the discussion is the role of effective human resource management (HRM) in addressing these challenges. The text argues that robust HRM including strategic practices, recruitment, continuous professional development, and performance management, are essential for creating a supportive and dynamic educational environment. Such practices not only improve teacher commitment and performance but also contribute to a positive organizational culture that aligns with the institution's mission and fosters collaborative decision-making.

The context of Berau Regency further underscores the urgency of tailored HRM strategies. With its rich biodiversity juxtaposed against the realities of deforestation, overcrowded classrooms, and limited connectivity, the region presents a unique set of circumstances that require adaptive educational strategies. The study aims to evaluate HRM practices in elementary schools in this area by focusing on two primary aspects: the strategic

planning of HR and the organizational structure that supports these initiatives.

Methodologically, the research adopts a qualitative case study approach, utilizing in-depth interviews, field observations, and document analysis to capture the nuanced experiences of school administrators, teachers, and other stakeholders. The findings reveal that successful HR planning involves a comprehensive needs assessment, competency evaluation, strategic collaboration, contextual training programs, and sustained external partnerships. Similarly, an effective organizational HR structure characterized by centralized leadership, supportive administrative frameworks, and active teacher participation—plays a critical role in enhancing student outcomes. Together, these insights offer a sustainable model for improving educational quality in challenging remote environments..

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