The Implementation of Payroll Accounting Information Systems in Indonesia: A Systematic Literature Review

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Abstract.

This research presents an in-depth analysis of the implementation of the Payroll Accounting Information System in Indonesia through a Systematic Literature Review (SLR) approach. Involving ten accredited journals, this research describes the processes and obstacles in payroll systems in various companies, including PT. Varia Usaha Bahari, Faculty of Economics and Business, Sam Ratulangi University, and PT. True Primary Gamma. The results show that there are deficiencies in internal control, such as duplication of tasks and lack of efficiency in preparing payroll. Even though several companies have implemented payroll accounting information systems well, there are still weaknesses in supporting documents and internal controls. This research shows that effective implementation of a payroll accounting information system requires good integration between technology, managerial supervision, and a well-organized company organizational structure. Challenges continually arise with the development of technology, requiring companies in Indonesia to improve their payroll systems to remain compliant with applicable accounting standards and ensure effective internal controls. This research provides a comprehensive insight into developments and trends in this domain, providing a basis for companies to improve their payroll systems to achieve salary management that is accurate, reliable, and compliant with applicable regulations.

Keywords: Information Systems, Accounting, Payroll, Company



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1. Introduction

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Economics,

Payroll accounting information systems have become essential in effectively managing a company's human and financial resources in the present digital era. Indonesia, being a nation with a progressing economy, is currently undergoing swift advancements in the

implementation of payroll accounting information systems. Payroll is a crucial component of a company's financial administration, encompassing the computation of employee wages, deductions, and perks. Effective management necessitates the implementation of a comprehensive and precise payroll accounting information system. The payroll accounting information system in Indonesia serves the dual purpose of calculating employee salaries and ensuring companies' compliance with tax regulations and labor laws. Companies can mitigate the likelihood of calculation errors, enhance data accuracy, and expedite the payroll process by adopting an advanced payroll accounting information system.

Payroll and wage accounting information systems are crucial for facilitating efficient management of employee salary and wage data by the management. Tampi & Tinangon (2015) propose that the salary accounting system is specifically developed to address issues related to inaccuracies and inconsistencies in the salary calculation and payment process. This system facilitates efficient and precise salary calculations and payments, adhering to a predetermined schedule, thereby assisting management in their tasks. According to Agatha & Mulyadi (2018), this system serves as a control mechanism that enables companies to establish employee salary levels and also oversee, manage, enhance, and regulate employee salary expenses. Therefore, the payroll and wage accounting information system plays a crucial role in the Company's management of human and financial resources.

In addition, the implementation of a payroll accounting information system also enables companies to enhance employee productivity. Through convenient access to comprehensive data on compensation and perks, employees can gain a lucid comprehension of the various elements comprising their earnings. Consequently, this enhanced understanding has the potential to bolster motivation and performance. Despite the numerous benefits brought about by advancements in information technology, there are still obstacles to overcome when it comes to implementing a payroll accounting information system that aligns with local requirements and regulations. Several challenges encompass a deficiency in comprehending technology, training requirements for competent personnel, and adherence to frequently evolving regulations.

The significance of overseeing a payroll accounting information system resides not solely in its administrative efficacy, but also in upholding integrity and equity when determining employee salaries and wages. According to Natalia (2020), management must handle the payroll system with professionalism to mitigate the risk of fraud that could potentially damage the company. This entails establishing practical and sustainable internal controls to ensure that salaries and wages are processed by relevant procedures. Furthermore, it is crucial to segregate interconnected operations and establish distinct obligations, as underscored by Indrasti & Sulistyawati (2021). Implementing a robust payroll accounting information system enables companies to promptly identify irregularities or fraudulent activities, guarantee equitable salary disbursements to employees, and enhance operational effectiveness.

According to Mursidah et al. (2020), employee compensation not only serves as a financial incentive but also has substantial motivational consequences. Adhering to legal requirements when determining salaries not only ensures employees' financial stability but also enhances their motivation and sense of accountability toward their jobs. Furthermore, implementing a salary policy that is equitable and determined by factors such as expertise, tenure, and job level serves as a motivating force for employees to consistently enhance their job performance

and cultivate their skills. An effective payroll accounting information system not only upholds company integrity but also fosters employee development and drive, thereby cultivating a productive and competitive workplace.

Aprilliadi (2020) states that the internal control system for payroll and wages encompasses various functions within the company. The personnel department is accountable for the process of recruiting, selecting, and placing employees, as well as making decisions regarding salaries and wages. The time recording function is responsible for documenting employee attendance, while the payroll and wages function encompasses the calculation of gross income and the deduction of relevant expenses. The accounting function documents the company's liabilities pertaining to employee compensation, including salaries and wages payable as well as taxes. The finance department is responsible for conducting verification procedures before the disbursement of salaries and wages.

According to Intishar & Muanas (2018), the payroll and wage accounting information system has the possibility of experiencing fraud, manipulation, and delays in employee salary payments. This can adversely affect the company, leading to excessive salary expenses and employee discontent. Hence, it is imperative to establish effective internal control measures to ensure the smooth and lawful execution of the payroll and wage process. By exercising robust control, companies can effectively mitigate financial losses and prevent conflicts with employees, while also ensuring the continuity of the company's operations.

The interviews with employees in the company revealed a phenomenon characterized by various issues pertaining to absenteeism and excessive overtime hours. Certain employees tend to infrequently utilize fingerprint tools for attendance, leading to the system's failure to detect attendance data. In addition, manual attendance is typically employed as a precautionary measure when the fingerprint device fails and is usually only done upon returning home from work. This violates the company's regulations that mandate employees to clock in and out of work, as it significantly impacts the payroll procedure. Another issue pertains to the scheduling of overtime, wherein there exists a substantial disparity between the projected and actual number of overtime hours, as well as the quantity of employees engaged in overtime work. This scenario demonstrates the presence of ineffectiveness and inefficiency in managing overtime hours, leading to expenditures on overtime wages that deviate from the intended plan. Hence, companies must address this issue by enforcing more stringent regulations and ensuring that employees adhere to relevant attendance and overtime policies.

Therefore, conducting thorough and methodical scientific research using the Systematic Literature Review (SLR) method is highly pertinent for investigating the advancements, obstacles, and advantages of implementing payroll accounting information systems in Indonesia. SLR enables the systematic organization of existing knowledge, identification of knowledge gaps, and analysis of current trends and patterns in relevant literature. Hence, employing the SLR methodology, this study seeks to delineate the most recent advancements in the adoption of payroll accounting information systems in Indonesia, ascertain the obstacles encountered by organizations, and devise suggestions to enhance the implementation of this system in response to economic fluctuations and regulatory modifications in Indonesia.

2. Research Methods

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This study employs a Systematic Literature Review (SLR) methodology to examine the implementation of payroll accounting information systems in Indonesia. The SLR approach offers a methodical framework for identifying, assessing, and integrating prior research findings that are pertinent to this research topic. The research methodology comprises several steps, including the selection of literature sources, data collection, qualitative analysis, and synthesis of findings. The researchers will conduct a comprehensive search of academic databases, scientific journals, conferences, and official published literature pertaining to the implementation of payroll accounting information systems in Indonesia. The selection of literature sources will be based on predetermined criteria for inclusion and exclusion, ensuring their relevance and quality.

This study identified ten nationally recognized journals that are closely aligned with the specified keywords. The journals were discovered using Google Scholar and the Publish and Perish application. The data extracted from these journals is subsequently organized in a tabular format, encompassing details such as author credentials, publication year, journal title, and research findings. The chosen journals are those that contain research that is comparable to the topic addressed in this study. Once a journal has been chosen, the subsequent step involves conducting a thorough examination of the research journal's contents. Every journal is thoroughly examined to comprehend the employed methodology, acquired findings, and resulting conclusions. The findings of this analysis are subsequently condensed and amalgamated into a comprehensive discourse within this journal. At this stage, researchers will emphasize the resemblances, disparities, and deductions derived from each scrutinized journal. The data extracted from these journals will be utilized to construct a comprehensive overview of the implementation of payroll accounting information systems in Indonesia. The insights derived from prior journals will aid in constructing compelling arguments in this study, while also establishing a robust theoretical framework to substantiate research findings.

This research utilizes an SLR (Systematic Literature Review) approach to present the findings of a comprehensive analysis of previous relevant research on the implementation of payroll accounting information systems in Indonesia. This research will offer thorough and current insights into advancements and patterns in this field.

3. Results and Discussion

Results

The results of the research data included in this literature review are the results of analysis and summaries from various documented journals, especially those related to Payroll Accounting Information Systems in Indonesia. This data has been summarized and presented in tabular form, presenting important information such as research methodology, main findings, and conclusions from each journal included in this research. Through this analysis and summary, the research aims to provide a comprehensive picture of the implementation of payroll accounting information systems in Indonesia based on the findings that have been presented in related journals which are presented in the following table.

Table 1. Research Results on the Implementation of Payroll Accounting Information Systems in

	Indonesia					
Researcher	Research Title	Year of	Journal	Research result		
Name		Research				

Teddy Aprilliadi	Analysis of Payroll and Wage Accounting	2020	Warrior: Journal of Character Education	The research result highlight deficiencies in the implementation of
	Information Systems			payroll and wag
	in Internal Control Efforts for			systems and procedure for outsource
	Outsourcing			employees at PT. Vari
	Employees			Usaha Bahari, which
				located at the Ciwanda
				packing plant of P Semen Indonesi
				(Persero) Tbk. Th
				research reveals the
				internal control in th
				payroll system is sti
				not optimal. Finding
				include duplication of tasks, lack of efficience
				in procedures fo
				preparing payroll an
				wages, as well a
				weaknesses in th payment of salaries an
				wages. The accountin
				records used were als
				proven to be incomple
				due to the absence of
				general journal, produce cost card, and cost card
				In addition, absenteeis
				management vi
				fingerprint machines
				not properly monitored and payroll and salar
				deductions do no
				receive adequa
				authorization from th
				company's personnel of
				personnel departmen These findings indica
				an urgent need f
				improve the intern
				control system so the
				payroll and wag
				processes can run mor effectively an
				efficiently and b
				applicable ethic
				standards an
	Implementation of a	2019	EMBA Journal:	regulations. The research resul
Lita Cabriella	implementation of a	2019	Journal of	
Gita Gabriella, Kakasih Sifrid	Payroll Accounting		journaloi	highlight the pavro
Gita Gabriella, Kakasih Sifrid S.	Payroll Accounting System (Case Study		Economics,	0 0 11
Kakasih Sifrid			-	highlight the payro system at the Faculty of Economics an Business, Sam Ratulan

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	Business, Sam Ratulangi University)		Accounting Research	process involves sever personnel
				administration procedures, recordin attendance time making payroll, an paying salaries, with documents such a employee dat assignment letters, an attendance lists. The functions involved, such as personnel, payrol and finance, ru effectively according to existing procedure However, this research emphasizes the need for improvements in the implementation of payroll accounting systems, with a focus of optimizing processes as that the system is not vulnerable to errors of virus attacks. The indicates the importance of improving securit
Amirah	Analysis of the	2018	Scientific Journal	and efficiency in payro systems to ensure the reliability and integrity The research result
Yayang Intishar & Muanas	Implementation of Payroll Accounting Information Systems in Supporting the Effectiveness of Payroll Internal Control		of Unitary Accounting	show that PT. Du Prima Rezeky h implemented a payro accounting informatio system well because fulfills the elements an accountin information syste needed to support the effectiveness of interm control. However several weakness were found in interm control, especial related to the function making payroll ar paying salaries. The process is still carrie out by the finan- function without any r examination ar authorization from the accounting department

				for improvements in the authorization system and internal control procedures to ensure accuracy and reliability in the company's payroll process.
Dita Mawar Indrasti, Ardiani Ika Sulistyawati	Implementation of the Payroll Accounting Information System to Support the Effectiveness of Internal Control	2021	SOLUTION: Scientific Journal of Economics	The payroll accounting information system and payroll procedures at PT Omni Electrindo have been implemented quite well, with procedures that are by existing theory and the main documents for calculating salaries have been fulfilled. However there are weaknesses in the documents supporting salary calculations, such as the absence of employee pay slips and the lack of formal letters regarding salary changes Furthermore, the company's interna controls still appear to be less effective. Severa functions, such as calculating salaries and financial functions, are carried out by one section, namely the General Manager. This condition raises the risk of calculation errors because no verification from other departments can ensure correctness and accuracy in salary calculations. Therefore it is necessary to improve the organization of related functions and improve documentation supporting salary calculations to ensure more effective internal
Zein Ghozali, Irsan, Masnoni, Lia Sari, Rizki Vitalia	Analysis of the Implementation of the Payroll Accounting	2019	ECOBIS Journal: Economic and Business Studies	control. The results of this research are that the South Sumatra BKSDA implements the ASN

	Information System at the South Sumatra			and PPNPN payrol process with stage
				process with stage starting from th personnel and administration section followed by changing employee salary dat which is then processed by the Finance Section according to the applicable salary types However, in payrol reporting, the South Sumatra BKSDA stil carries out manua recording before th data is input into th applicable accounting standards. The recommendation given is the need to increas HR competency in th ASN and PPNPN payroll systems to understand and implement the lates government regulation quickly. In addition, sufficient number of implementing
				employees is required t support the correct and efficient processing of employee data ensuring that th workload is distributed according to their respective duties and functions.
aluanto, SPT and Rizka Parasmita Dewi	Study of the Implementation of Internal Control of Outsourcing Payroll Accounting Information Systems	2018	Aditya Fiber – Scientific Journal UNTAG Semarang	The results of this research reveal several obstacles in the interna- implementation of payroll accountin information systems for outsourcing. Som problems includ document authorization and recordin procedures that are no yet effective, the use of simple applications i the recording an payroll process, as we

				as unhealthy practices such as determining salaries for outsourced employees that are not based on the work performance achieved by the employees. Apart from that, the outsourcing payroll accounting information system also shows the need for improvement, especially in terms of outsourcing employee salary payments which are often paid first according to the payroll period, and then billed to the service user (second party) for payment of the outsourcing employee's salary. To increase efficiency and fairness in payroll, improvements in authorization procedures, the use of more advanced technology, as well as adapting payroll practices to the work performance of outsourced employees are expected to be
Desi Anggreni Br Sembiring, Rintan Saragih, Mitha Christina Ginting	Evaluation of the Implementation of the Payroll Accounting Information System to Improve Internal Control at PT. SCS Facility Service Medan	2023	SiAkun: Accounting Thesis Journal	effective steps. Implementation of a payroll accounting information system at PT. SCS Facility Service Medan has been running quite well and effectively. The payroll function, payroll documents, and payroll procedure network have been implemented well, including payment of employee salaries via transfer. Standard operational documents such as working time cards, employee attendance lists, salary lists, cash-out receipts, and pay slips have been

				implemented effectively by established
Lifry Corry Ertavina, Hendrik Manossoh, Hendrik Gamaliel	Analysis of the Implementation of the Payroll Accounting Information System at the National Land Agency of North Sulawesi Province	2023	LPPM Journal for EkoSosBudKum Sector (Economic, Social, Cultural and Legal)	procedures.Theaccountinginformationsystem atheNationalLandAgencyofNorthSulawesiProvince is stillfacing several problemsThere is a double duty inthecivilservicefunction, which acts as arecorder of attendanceand payroll, causing alack of efficiency incarrying out tasks. Eventhough the documentsusedmeetthepayroll procedure is nofully effective by theexisting theory. Internacontrol is also still nooptimal because there isno clear separation oduties between relatedfunctions. The payrolsystem has experiencedpositive developmentsbut there are stillweaknesses such asduplication of duties infunctions,incompatibilityopayroll documents withapplicable theory (forexample the use osalary envelopes whichshould not be neededbecause payroll is doneby transfer), and the useoffewer proceduresthan the theory should
Ni Komang Erina Liliani, and I Gede Agus Pertama Yudantara	Implementation of the Payroll Accounting Information System for ASN and Non- ASN Employees at the Buleleng Regency Regional Financial and Revenue Management Agency	2022	Scientific Journal of Accounting and Humanics	be applied. The payroll system for civil servants and contract employees a the Regional Financia and Revenue Management Agency o Buleleng Regency has differences in the supporting documents for salary assignments the section that handles document submissions

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Bella Natalia	Analysis of the	2020	PROCEEDINGS	and the time for salary assignments. However, salary procedures are generally by the provisions set by the regional government. Internal control in cash disbursement procedures, especially employee salary payments, has been implemented well, with a clear understanding of duties between the finance department and the personnel department. Using a Payment Order as the basis for a Fund Disbursement Order (SP2D) and collecting complete employee files are important factors before the payroll process is carried out. In PT Gamma Utama
	Payroll Accounting Information System to Increase the Effectiveness of Internal Control at PT Gamma Utama Sejati		OF BIEMA Business Management, Economics, and Accounting National Seminar	Sejati's payroll system, internal control has been implemented effectively by established operational standards and by existing theory. In this research, it was discovered that several developments and changes had occurred. One striking change is the use of salary envelopes which are no longer used. Salary payments are now made by transfer to each employee's account, while still including a pay slip containing details of each employee's salary. Apart from that, supervision of the entry of attendance cards has also changed. The use of fingerprint attendance has been implemented, which allows the system to record attendance times computerized.

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With this change, PT Gamma Utama Sejati's payroll system has followed technological developments and best practices in managing employee salaries.

This research revealed a number of problems in implementing systems and procedures for outsourcing employee salaries and wages in various companies. Research results from various researchers highlight deficiencies in internal control in companies such as PT. Varia Usaha Bahari, Faculty of Economics and Business, Sam Ratulangi University, PT. Dwi Prima Rezeky, and the South Sumatra Natural Resources Conservation Center. These findings include duplication of tasks, lack of efficiency in payroll procedures, as well as weaknesses in accounting records. Even though several companies such as PT Omni Electrindo have implemented a payroll system well, there are still weaknesses in the documents supporting salary calculations and internal controls. Likewise, research at PT Gamma Utama Sejati shows the effectiveness of internal control through the use of technology such as fingerprint attendance and salary payments via transfer. In conclusion, improving internal control and implementing an efficient and secure payroll accounting information system is important to ensure payroll processes are accurate, reliable, and according to applicable regulations in various companies.

Discussion

An examination of the literature on the implementation of payroll accounting information systems in Indonesia provides valuable insights into the effectiveness, dependability, and internal regulation in the management of employee salaries across various companies. According to Agatha & Mulyadi's (2018) study on PT. Batik Arjuna Cemerlang Sukoharjo, despite the implementation of a payroll accounting information system, the company still faces several deficiencies due to the continued reliance on manual processes. This exemplifies the difficulties encountered by companies in Indonesia when transitioning from manual systems to computerized systems, despite the presence of well-organized payroll processes.

The study conducted by Tampi & Tinangon (2015) at the Respondent's Grand Sentral Supermarket demonstrates that effective internal control can be attained by implementing structured function recording and direct supervision from company management. This study emphasizes the significance of managerial oversight to ensure that payroll operations adhere to company protocols and benchmarks. The results align with the findings of the study conducted by Jermias (2016) at PT. Bank Sinarmas Tbk, Manado. The study concluded that a well-functioning payroll accounting information system can enhance managerial performance. However, it also identified some shortcomings in the supervision of payroll preparers.

According to Febriyanti (2017), implementing computerized salary payments and supervision through the accounting department can enhance the efficiency of a company's internal control. This study highlights the significance of employing a unified accounting information system to guarantee precision and dependability in payroll. Nevertheless, there are still obstacles to the successful implementation of efficient payroll accounting information

systems, as indicated by the research conducted by Langi et al. (2019) at PT. Glorious Gold Indonesia. This study emphasizes the significance of task allocation and the implementation of healthy practices within a company's organizational structure in relation to internal control efforts.

Based on this context, it can be inferred that the successful implementation of a reliable and secure payroll accounting information system necessitates seamless integration of technology, direct managerial oversight, and a well-structured organizational framework within the company. Companies in Indonesia must consistently enhance their payroll systems to comply with relevant accounting standards and establish efficient internal controls, as technology advancements present ongoing challenges.

4. Conclusion

After analyzing and summarizing multiple studies on the implementation of the Payroll Accounting Information System in Indonesia, it is evident that numerous companies encounter difficulties in efficiently and reliably implementing this system. Research in the field of literature indicates that despite the adoption of computerized payroll accounting information systems by numerous companies, there are still deficiencies in internal control, task allocation, and documentation pertaining to salary calculations. The results of this study emphasize the significance of managerial oversight in guaranteeing adherence to company protocols and benchmarks during the payroll procedure. Effective internal control is crucial for achieving an accounting information system that is integrated and supported by sound practices in the company's organizational structure. While technology has indeed made salary payments more convenient through transfers and the use of fingerprint attendance, there are still obstacles to overcome, such as insufficient documentation and inefficient task allocation. To surmount this obstacle, Indonesian companies must persistently enhance their payroll systems through the integration of cutting-edge technology, bolstering managerial oversight, and refining internal organizational frameworks. In addition, it is necessary to enhance HR training and expertise in the area of payroll accounting information systems to promptly comprehend and execute the most recent government regulations. By adhering to relevant regulations in Indonesia, companies can guarantee the dependability, precision, and trustworthiness of the payroll process.

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