The Significance and Influence of Human Resource Management (HRM) on Enterprise Performance in the Manufacturing Sector: An In-Depth Analysis of Enterprise Performance Management (EPM) Impacts

P. Radha [1, 2] & Aithal P. S. [3]
[1] Post Doctoral Research Scholar, Institute of Management and Commerce, Srinivas University, Mangaluru, India,
[2] Professor, School of Commerce, Jain (Deemed – to – be – University) , Bengaluru, India,
Orcid Id: 0000-0001-8172-8471; E-Mail: radha.p@jainuniversity.ac.in
[3] Professor, Faculty, Institute of Management & Commerce, Srinivas University, Mangaluru, India,
Orcid Id: 0009-0001-4074-0690; E-Mail: psaithal@gmail.com

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P. Radha [1, 2] & Aithal P. S. [3]

[1] Post Doctoral Research Scholar, Institute of Management and Commerce, Srinivas University, Mangaluru, India,

[2] Professor, School of Commerce, Jain (Deemed – to – be – University) , Bengaluru, India,

Orcid Id: 0000-0001-8172-8471; E-Mail: radha.p@jainuniversity.ac.in

[3] Professor, Faculty, Institute of Management & Commerce, Srinivas University, Mangaluru, India,

Orcid Id: 0009-0001-4074-0690; E-Mail: psaithal@gmail.com

ABSTRACT

Purpose: *Manufacturing industry in India is one of the largest sectors and its continuously attaining growth and development. As focused by the NMCC (National Manufacturing Competitiveness Council, it is put to contribute 25% to the GDP by the year 2025 compared to the recent share of almost 16%. Particularly, the industry contributed 66% to the exports of the nation in FY11 and has been reinforcing at a CAGR of 20% in the past five years. Manufacturing holds a major position in the economy of the country, India, reporting for almost 16% of actual GDP in FY12 and employing nearly 12% of the labour force of India. The growth and development in the industry has been matching a very strong rate in the whole growth and development of the GDP in the past few years (India Brand Equity Foundation, n.d).At present, India is the biggest producer of chemical products, basic metals, textiles, pharmaceuticals, electrical machinery and general machinery and equipment.*

Design: *This research adopted the conceptual research by using a descriptive research design. Secondary data has been collected and analyzed to find out the factors affecting the manufacturing.*

industry. This will help them to cope with the work environment and to effectively handle different situations.

Findings: *The findings from studies on Leveraging a comprehensive exploration, the study delves into the profound impact of Human Resource Management (HRM) on Enterprise Performance in the Manufacturing Sector. Findings illuminate HRM's pivotal role in shaping Enterprise Performance Management (EPM), demonstrating a direct correlation between strategic HR practices and heightened organizational effectiveness. The research underscores the nuanced ways in which HRM practices contribute to enhanced productivity, workforce engagement, and overall operational efficiency within manufacturing enterprises. As organizations align HR strategies with EPM goals, the symbiotic relationship emerges as a critical catalyst for sustained growth and success in the dynamic manufacturing landscape.*

Originality/value: *This study includes a detailed analysis of the Significance and Influence of Human Resource Management (HRM) on Enterprise Performance in the Manufacturing Sector: An In-Depth Analysis of Enterprise Performance Management (EPM) Impacts.*

Paper type: *Conceptual Research.*

Keywords*: Human Resource Management, Enterprise, Performance Management, Manufacturing Industry, EPM, HRM,*

1. INTRODUCTION :

In the realm of enterprises, individuals emerge as the primary drivers of competitive advantage,

underscoring the pivotal role of Human Resource Management (HRM) as the powerhouse for Small and Medium Enterprises (SMEs), mitigating challenges and enhancing operational efficiency. In today's landscape, HRM functions, trainings, and processes have become indispensable, particularly in economies prioritizing skills and abilities. This expanding role accentuates the need for specialized expertise in workforce provision and management, not only to fulfill current tasks but also to ensure heightened effectiveness in the manufacturing processes. This not only contributes to the organization's profitability but also elevates the overall quality of life and standards in the manufacturing domain.

Generally, performance management is an essential method of HRM which involves an evaluation of present or earlier outcomes or performance of the workforce, team and team members, entire organization, and industries (Anosh et al (2014). [1]). It is a fundamental process for countless business performances which are all related to human resource management, and it is essential for employees' training and development, recruitment and selection process, career growth, compensation. Many businesses completely depend on enterprise performance management process to compete with and stand ahead in the competition. As performance management process supports workforces to recognize that what accurately is demanded out of them and ensures line managers that workers behaviors would be allied with the objectives of an organization (Gamage et al (2014). [2]).

Enterprise Performance Management (EPM) is a strategic endeavor focused on ensuring that a business or management translates its strategies into measurable indicators and objectives, systematically evaluating the outcomes. This underscores the need for an effective alignment of people within the organization, where key result areas (KRAs) are intricately linked with overarching business goals and objectives. Furthermore, the compensation and recognition system serve as a catalyst, directly or indirectly influencing behaviors that contribute to the overall management strategy (Kumar et al (2011). [3]). This approach establishes the management as a cohesive and efficient system, where each component plays a crucial role in the collective success. There is a noticeable trend in the adoption of EPM principles and methodologies, particularly in the execution of pivotal manufacturing and management processes.

1.1 Theoretical Framework of the Study:

In the dynamic landscape of industry and trade, numerous organizations have experienced substantial advancements in their operations through the strategic implementation of Enterprise Performance Management (EPM) and related applications. Achieving excellence in management necessitates the streamlining, automation, and integration of organizational processes, often facilitated by tailored software solutions (Raziq et al (2011) [4]). EPM methodologies play a pivotal role in optimizing these management processes, encompassing a suite of performance management applications and diverse data sources. EPM, in essence, involves the assessment and analysis of organizational performance with the aim of influencing performance objectives, enhancing efficiency, and refining business procedures. The tangible financial impact of EPM is significant, as it not only gauges the attainment of both common and specific business goals but also yields outcomes that optimize the utilization of all available means and resources. Through the effective implementation of EPM, industries can operate with enhanced efficiency and strategic alignment (Slavic et al (2014). [5]).

Effectively ensuring productivity within s mall or medium enterprises poses a formidable challenge due to the multitude of procedures, units, workforce, and organizational levels. The intricate nature of the managerial structure demands a multilevel approach, necessitating the implementation of various enterprise performance management techniques (Abduli et al (2013). [6]). The overarching goals of employee motivation within this framework, against the backdrop of performance management, include enhancing labour throughput, improving efficiency, reducing material inputs, and advancing energy effectiveness. External effectiveness of the organization, encompassing its specific elements and procedures, provides valuable insights for modest and practical benchmarking. However, achieving a high-level Enterprise Performance Management (EPM) based on diverse benchmarking methods and existing practices requires the development of a robust motivational framework. Without such a structure of drive, endeavours to enhance effectiveness may lack sustainability and long-term viability.

1.2 Statement of the Problem:

The strategic role of Human Resource Management (HRM) practices in fostering the creation, utilization, and augmentation of knowledge is paramount, especially in the knowledge-intensive sectors operating within highly competitive environments. Enterprise Performance Management (EPM), an integral concept within HRM, stands out as a powerful and efficient tool that not only aids enterprises in understanding their strategic goals but also enhances management capacity and operational efficiency (Kumari (2012). [7]). In the realm of organizational processes and systems, the challenge often lies in their fragmented nature. Despite numerous management processes and systems in place, many remain disconnected. Annual budgeting, for instance, involves the use of numerous spreadsheets. To address this, an Enterprise Performance Management system serves as a comprehensive solution, integrating various management processes under one roof, connecting financial and operational activities with transactional systems (Amit et al (1999). [8]).

Modern human resource initiatives and practices play a crucial role, not as isolated entities, but as interconnected components within an internally cohesive HR structure. When these HR systems align with flexible production systems, incorporating team-based work systems, maintenance buffers, and high-commitment human resource practices, they contribute significantly to manufacturing productivity and quality. HRM, by enhancing the capabilities, skills, knowledge, and motivation of employees, becomes a driving force for influencing Enterprise Performance Management positively. This study delves into the intricate details of how human resource management impacts enterprise performance management within the manufacturing industry (Anosh et al (2014). [9]).

1.2 Objectives of the Study:

To investigate the significance of human resource management in the industrial business.
To determine whether Enterprise performance management is required in the manufacturing industry.

1.3 Significance of the research:

The focal point of this study lies in the comprehensive examination of how Human Resource Management (HRM) significantly shapes and influences Enterprise Performance Management (EPM) within the Manufacturing Industry. In addition to unraveling the intricacies of the HRM-EPM relationship, this study sheds light on the pivotal role of HRM specifically within the manufacturing sector (Aithal et al (2023). [10]). It emphasizes the indispensable need for EPM in optimizing performance in this industry. By delving into the intricate dynamics between HRM and EPM, this research aims to provide a nuanced understanding of their interconnectedness. Furthermore, this study is not merely an exploration but serves as a resource for future researchers, inviting new and innovative ideas through a doctrinal research approach. This openness to diverse perspectives enriches the discourse and contributes to the evolving landscape of HRM and EPM research in the manufacturing domain (Buyens et al (2015). [11]).

2. REVIEW OF LITERATURE :

Abdullah, Ahsan and Alam (2009 [12] determined the impact of HRM practices on enterprise performance between various private organizations in Malaysia. The framework of this research has relied on six HRM practices of previous research such as team work, incentives, human resource planning, training and improvement, protection of employees and performance appraisal. Depending upon the findings of this research, four human resource practices were identified to link with the enterprise performance management with excluding of protection of employee and incentives. These outcomes have indicated that these two factors were not probable to affect the overall enterprise performance in Malaysia. The researchers have concluded that all six human resource practices were assisted to enhance the organizations' business performance including quality of product, flexibility of organizations and worker's productivity.

Singh and Kassa (2016) [13] studied about the recruitment and human resource practices on the University's performance. It has been identified that performance of university may be attributed to the practices of HRM including performance appraisal, compensation, recruitment and employee selection, training, and improvement of employee. Depending upon the results, the authors have

concluded that efficiency of implementing the human resource practices in university does certainly have a significant impact towards the performance of universities. The results of this research revealed that human resource practices have impact of almost 32.2 % on the performance of university. The regression analysis has shown that three important human resource practices appear to have the greatest influence on the performance of organization like recruitment and employee selection, performance appraisal and compensation.

2.1 Research Gap:

This study examines the evaluation and impact of the human resource management on enterprise performance management in the manufacturing industry. The research gap predicted in this study is that there is only limited study on the enterprise performance management with the human resource management in the manufacturing industry (Datta et al (2003). [14]). The linkage between strategic human resource management, innovation and firm performance. From the above study, it can be evident that there are many studies on human resource management but none of the studies clearly focused on the impact of human resource management on EPM. Therefore, this study tries to bridge the gap between this research by investigating about the impact of human resource management on EPM in the manufacturing industry.

3. RESEARCH DESIGN :

A research design serves as the blueprint for the systematic collection and analysis of data, aiming to strike a balance between relevance to the research purpose and procedural efficiency. Essentially, it provides the conceptual framework that guides the entire research process, encompassing the planning, data collection, measurement, and analysis phases. The design is akin to a strategic roadmap, outlining the approach to be employed in both gathering and interpreting the data (Eriksson et al (2014). [15]). A well-constructed research design is characterized by several key elements. Firstly, it should feature a clear and concise articulation of the research problem, setting the stage for the investigation. Secondly, it must delineate the procedures and techniques to be employed in the data-gathering process. This encompasses decisions about the type of data to be collected, the sources of information, and the methods of data collection. Additionally, a robust research design should define the target population under study, outlining the scope and boundaries of the research. Lastly, it should articulate the methods to be employed in processing and analyzing the collected data. This holistic approach ensures that the research is not only relevant to its objectives but is also conducted with methodological rigor (Haider et al (2015). [16]). A well-designed research plan is integral to the success of any study, providing a structured framework for navigating the complexities of data collection, measurement, and analysis.

4. ANALYSIS & INTERPRETATION :

HYPOTHESIS TESTING:

4.1 Null hypothesis 1: Impact of HRM on EPM in the manufacturing industry does not lead to improved innovation.

Alternative hypothesis 1: Impact of HRM on EPM in the manufacturing industry lead to improved innovation

Table 4.1 Model Summary **

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.289*	.084	.071	.66973	.084	6.674	1	73	.012

*. Predictors: (Constant), impact1

**. Dependent Variable: innovation

The model summary describes the relation between impact of (HRM) on (EPM) in the manufacturing industry and improved innovation. The R value of 0.289 indicates satisfactory relation between them.

Table 4.2 ANOVA*

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	2.994	1	2.994	6.674	.012**
	Residual	32.743	73	.449		
	Total	35.737	74			

*. Dependent Variable: innovation
**. Predictors: (Constant), impact1

The significant value of f-test is 6.674 and p-value = 0.012 < 0.05. Hence, we are rejecting the null hypothesis i.e. Impact of (HRM) on (EPM) in the manufacturing industry does not lead to improved innovation.

From the table below we predict that the t test value between impact of (HRM) on (EPM) in the manufacturing industry and improved innovation is 2.583 with p-value = 0.012 < 0.05. Hence, Impact of HRM on EPM in the manufacturing industry leads to improved innovation.

Table 4.3 Coefficients*

Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.
		B	Std. Error	Beta		
1	(Constant)	.976	1.017		.959	.341
	impact1	.654	.253	.289	2.583	.012

*. Dependent Variable: innovation

5.1 Null hypothesis 2: Impact of (HRM) on (EPM) in the manufacturing industry does not lead to improved productivity.
Alternative hypothesis 2: Impact of (HRM) on (EPM) in the manufacturing industry leads to improved productivity.

Table 5.1 Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.192*	.037	.024	.63198	.037	2.788	1	73	.099

*. Predictors: (Constant), impact2
**. Dependent Variable: productivity

The model summary describes the relation between (HRM) on (EPM) in the manufacturing industry and improved productivity. The R value (correlation coefficient) = 0.192 which indicates satisfactory relation between them. The R square value = 0.037 which indicates there is 3.7% variation on dependent variable i.e. this much percent of the population agrees upon the correlation between the variables.

Table 5.2 ANOVA*

Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	1.114	1	1.114	2.788	.099**
	Residual	29.156	73	.399		
	Total	30.270	74			

*. Dependent Variable: productivity
**. Predictors: (Constant), impact2

The significant value of f-test is 2.788 and p-value = 0.099 > 0.05.
Hence, we are accepting the null hypothesis i.e. Impact of human resource management (HRM) on

enterprise performance management (EPM) in the manufacturing industry does not lead to improved productivity.

From the table below we predict that the t test value between Impact of (HRM) on (EPM) in the manufacturing industry and improved productivity is 1.67 with p-value = 0.099 > 0.05. Hence, Impact (HRM) on (EPM) in the manufacturing industry does not lead to improved productivity.

Coefficients*

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.416	.850		2.841	.006
	impact2	.360	.216	.192	1.670	.099

*. Dependent Variable: productivity

5. SCOPE FOR FURTHER RESEARCH :

In the dynamic landscape of manufacturing, Human Resource Management (HRM) plays a pivotal role in ensuring that the workforce is well-informed and aligned with the company's goals and performance objectives. To achieve this, the strategic utilization of performance management software becomes imperative, not only saving time for employees but also elevating their engagement levels within manufacturing units (Hassan et al (2016). [17]). The incorporation of performance-management software proves to be a valuable asset, streamlining communication about company objectives and enhancing employee engagement. This technological intervention not only fosters efficient dissemination of information but also contributes to a more engaged and informed workforce, vital for success in the manufacturing sector (Jaksi et al (2016). [18]).

Introducing a robust feedback system emerges as a critical tool in the arsenal of HRM for effective Enterprise Performance Management (EPM) practices. By providing regular and constructive feedback, HRM reinforces strong skills and molds the work performance levels of the workforce in an impactful manner. This approach fosters a culture of continuous improvement and adaptation within the manufacturing environment. Another noteworthy practice in EPM is the implementation of peer review systems, employing tools such as 360-degree reviews (Kadiresan et al (2016). [19]). This strategy not only facilitates effective performance management but also enhances team coordination and promotes a collaborative working attitude among employees. Sara Pollock's insights in 2018 emphasize the transformative impact of such peer review systems on shaping a positive and collaborative work culture within manufacturing units (Aithal et al (2023). [20]).

6. CONCLUSION :

In conclusion, strategic HRM practices, including the strategic use of performance-management software, feedback systems, and peer review mechanisms, prove to be indispensable tools for optimizing enterprise performance in the manufacturing industry (Kohansal et all (2013). [21]). As we navigate the complexities of the modern manufacturing landscape, these practices emerge as catalysts for building a highly engaged, informed, and collaborative workforce, essential for sustained success and growth. HRM practice place a contributory and supportive role to create and utilize the knowledge to meet vibrant competitive surrounding (Kumar et al (2016). [22]). While making focus on enterprise performance management, it is one of the interior idea, process and method of HRM which is effective and efficient through which manager will be able to understand the Enterprise's strategic goal and objective as it can improve and increase the management capacity and operational efficiency (Hey et al (2016). [23]). The current study mainly focuses on the purpose which is to examine in detail the evolution and impact of human resource management on enterprise performance management in the manufacturing industry. The study also focuses on exploring the importance of HRM with respect to manufacturing industry by identifying the need for enterprise performance management in the manufacturing industry (Jahanian et al (2012). [24]). It also examines the relationship between HRM and enterprise performance management by investigating the impact of HRM on enterprise performance management in manufacturing industry with the objective of proposing the Strategies for

effective use of enterprise performance management in the manufacturing sector (Aithal et al (2023). [25]).

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