The Academic
International Journal of Multidisciplinary Research

An Online Peer Reviewed / Refereed Journal
Volume 4 | Issue 9 | September 2026
ISSN: 2583-973X (Online), SJIF IF(2026): 5.6
Website: www.theacademic.in

The Impact of Human Resource Management Practices on Employee Performance in Small-Scale Industries of Amravati Division, Maharashtra

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DOI : https://doi.org/10.5281/zenodo.23525746

ARTICLE DETAILS

Research Paper

Received: 21-08-2026

Accepted: 20-09-2026

Published: 20-10-2026

Keywords:

Human Resource Management, Employee Performance, Small-Scale Industries, Recruitment, Training and Development, Compensation, Amravati Division.

ABSTRACT

Human resource management (HRM) practices play an important role in employee development, workplace motivation, and organisational performance. Small-scale industries often experience challenges relating to recruitment, training, compensation, performance appraisal, and employee participation. The present study examines the relationship between these HRM practices and employee performance in small-scale industries of Amravati Division, Maharashtra. The study considers recruitment and selection, training and development, compensation and rewards, performance appraisal, and employee participation as independent variables, while employee performance serves as the dependent variable. A quantitative and analytical framework incorporates descriptive statistics, Cronbach's alpha, Pearson correlation, and multiple regression. For statistical demonstration, a dataset representing 50 hypothetical respondents is used. The illustrative results indicate positive correlations between all five HRM dimensions and employee performance. The multiple regression model explains approximately 40.5% of the variation in the employee performance scores and is statistically significant. However, none of the individual regression coefficients reaches the 5% significance level when all five

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predictors are considered simultaneously. These results demonstrate the proposed analytical approach but do not represent actual field findings. The study provides a framework for understanding HRM practices and employee performance in small-scale industrial establishments.

1. Introduction

Human resources constitute an important organisational asset because employees transform financial, physical, and technological resources into productive outcomes. Employee performance depends on skills, motivation, workplace relationships, supervision, and the availability of appropriate working conditions. Human resource management therefore involves recruitment, employee development, compensation, performance evaluation, and participation in organisational activities.

Wright and McMahan (1992) explain strategic human resource management as the planned deployment of human resources and activities that support organisational objectives. Delery and Doty (1996) examine theoretical perspectives concerning HRM practices and organisational performance. These studies establish a foundation for understanding the relationship between employee management practices and organisational outcomes.

Small-scale industries often operate with limited financial resources and comparatively informal management systems. Owners and supervisors frequently handle recruitment, employee training, production supervision, and workplace relations. These circumstances make appropriate HRM practices important for maintaining work quality, productivity, and employee effectiveness.

Huselid (1995) examines the relationship between high-performance work practices, employee turnover, productivity, and corporate financial performance. Delaney and Huselid (1996) investigate HRM practices in relation to perceived organisational performance. Carlson et al. (2006) examine HR practices and compensation design in family-owned small and medium-sized enterprises. Saini and Budhwar (2008) discuss human resource management in Indian SMEs, emphasising the importance of employee involvement and organisational context.

Amravati Division includes Amravati, Akola, Buldhana, Washim, and Yavatmal districts. Industrial establishments in these districts operate under different workforce and production conditions. The present study examines five HRM dimensions and their relationship with employee performance, with particular attention to work quality, productivity, task completion, and reliability.

2. Review of Literature

Wright and McMahan (1992) provide a strategic perspective on HRM by linking human resource deployment with organisational objectives. Delery and Doty (1996) demonstrate the importance of theoretical frameworks for examining the relationship between HR practices and performance.

Huselid (1995) establishes an influential basis for investigating HR practices in relation to productivity and other organisational outcomes. Delaney and Huselid (1996) further examine the relationship between HRM practices and perceived organisational performance.

Carlson et al. (2006) identify recruitment, training and development, performance appraisal, employee morale, and compensation as relevant HR practices in family-owned SMEs. Their research supports the examination of multiple HRM dimensions rather than treating employee management as a single activity.

Saini and Budhwar (2008) highlight the importance of understanding Indian SMEs within their organisational and social context. Their work draws attention to employee involvement and workplace relationships.

These studies provide a theoretical foundation for the present research. However, findings from other organisational settings do not automatically establish the relationships that exist in small-scale industries of Amravati Division. The present study addresses this contextual gap by examining five HRM dimensions in a single analytical framework.

3. Research Problem

Small-scale industries depend on employees for efficient production, quality maintenance, and timely completion of assigned responsibilities. However, recruitment procedures, training opportunities, compensation systems, performance appraisal, and employee participation differ across establishments. Unsuitable recruitment may create skill mismatches, while inadequate training may restrict employee development. Unclear compensation arrangements and inconsistent feedback may affect employees' understanding of performance expectations. Limited participation may also reduce opportunities to communicate workplace problems. The study therefore examines the relationship between selected HRM practices and employee performance in small-scale industries of Amravati Division, Maharashtra.

4. Objectives of the Study

1. To examine selected HRM practices in small-scale industries.

2. To assess employee performance in terms of work quality, productivity, task completion, and reliability.
3. To analyse the relationship between recruitment and selection and employee performance.
4. To examine the relationship between training and development and employee performance.
5. To investigate the relationship between compensation and rewards and employee performance.
6. To assess the relationship between performance appraisal and employee performance.
7. To examine the relationship between employee participation and employee performance.
8. To analyse the combined contribution of the five HRM dimensions to employee performance.

5. Research Hypotheses

- H01: Recruitment and selection have no statistically significant relationship with employee performance.
- H02: Training and development have no statistically significant relationship with employee performance.
- H03: Compensation and rewards have no statistically significant relationship with employee performance.
- H04: Performance appraisal has no statistically significant relationship with employee performance.
- H05: Employee participation has no statistically significant relationship with employee performance.
- H06: The five HRM dimensions do not jointly make a statistically significant contribution to employee performance.

6. Research Methodology

6.1 Research Design and Sample

The study follows a quantitative, descriptive, and analytical framework. It examines HRM practices and employee performance through statistical techniques. The geographical scope covers Amravati Division, Maharashtra. The statistical demonstration uses a sample size of 50 hypothetical respondents. Since no actual questionnaire responses accompany the study, the numerical dataset is and does not represent employees surveyed in the region.

6.2 Variables and Measurement

The independent variables are recruitment and selection, training and development, compensation and rewards, performance appraisal, and employee participation. Employee performance serves as the dependent variable. For the illustrative analysis, each construct contains three five-point Likert-type items. Scores

range from 1 (strongly disagree) to 5 (strongly agree), with higher scores representing more favourable perceptions. Each construct score represents the mean of its three items.

6.3 Statistical Techniques

The analysis includes descriptive statistics, Cronbach's alpha, Pearson correlation, multiple regression, and regression ANOVA. Cronbach's alpha assesses internal consistency, correlation examines bivariate relationships, and multiple regression examines the combined association of the five HRM dimensions with employee performance. The significance level is .05. The numerical results are illustrative and require replacement with results from actual field data before empirical publication.

7. Results and Statistical Analysis

Table 1. Descriptive Statistics of HRM Practices and Employee Performance

Variable	Mean	Standard deviation
Recruitment and selection	3.187	0.759
Training and development	3.167	0.789
Compensation and rewards	3.220	0.826
Performance appraisal	3.220	0.813
Employee participation	3.220	0.845
Employee performance	3.180	0.817

The results show mean scores ranging from 3.167 to 3.220 for the HRM dimensions. Compensation and rewards, performance appraisal, and employee participation record the highest mean scores of 3.220. Training and development records the lowest mean score of 3.167. Employee performance records a mean of 3.180.

Table 2. Reliability of Research Constructs

Construct	Items	Cronbach's alpha
Recruitment and selection	3	0.883

Training and development	3	0.867
Compensation and rewards	3	0.878
Performance appraisal	3	0.843
Employee participation	3	0.902
Employee performance	3	0.870

The Cronbach's alpha values range from 0.843 to 0.902, indicating good internal consistency within the item sets. Nunnally and Bernstein (1994) discuss reliability as an important element of measurement assessment.

Table 3. Correlation Between HRM Practices and Employee Performance

HRM dimension	Pearson's r	p-value	Result
Recruitment and selection	0.423	0.002	Significant
Training and development	0.413	0.003	Significant
Compensation and rewards	0.387	0.006	Significant
Performance appraisal	0.352	0.012	Significant
Employee participation	0.463	0.001	Significant

All five HRM dimensions show positive correlations with employee performance in the illustrative results. Employee participation records the strongest correlation (r = 0.463), followed by recruitment and selection (r = 0.423), training and development (r = 0.413), compensation and rewards (r = 0.387), and performance appraisal (r = 0.352). All five correlations are statistically significant at the 5% level. The results demonstrate positive bivariate associations within the data.

Table 4. Regression Model Summary

Statistic	Value
Sample size	50
Multiple R	0.636
R square	0.405
Adjusted R square	0.337
Standard error of estimate	0.665
F-statistic	5.985
Degrees of freedom	5, 44
Significance of F	0.000263

The coefficient of determination ($R^2 = 0.405$) indicates that the five HRM dimensions jointly explain approximately 40.5% of the variation in employee performance. The adjusted R^2 is 0.337. The overall model is statistically significant, $F(5, 44) = 5.985$, $p < .001$. Therefore, the joint null hypothesis that all five regression coefficients equal zero is rejected for the illustrative dataset. The remaining variation reflects factors outside the model, measurement error, and other sources of variation.

Table 5. Multiple Regression Coefficients

Predictor	B	SE	Standardised β	t-value	p-value
Constant	-0.061	0.611	—	-0.099	0.922
Recruitment and selection	0.260	0.137	0.241	1.903	0.064
Training and development	0.204	0.150	0.197	1.366	0.179
Compensation and rewards	0.191	0.132	0.193	1.444	0.156

Performance appraisal	0.194	0.125	0.193	1.559	0.126
Employee participation	0.163	0.153	0.169	1.068	0.292

All five regression coefficients are positive. Recruitment and selection records the largest standardised coefficient (β = 0.241), followed by training and development (β = 0.197), compensation and rewards (β = 0.193), performance appraisal (β = 0.193), and employee participation (β = 0.169). However, none of the individual coefficients reaches the .05 significance level. Recruitment and selection records p = 0.064, which remains above the specified threshold. The difference between the correlation and regression results indicates that the predictors share explanatory information in the illustrative model.

Table 6. Summary of Hypothesis Testing

Hypothesis	Test result	Decision at 5%
H01: Recruitment and selection	r = 0.423, p = 0.002	Reject H01
H02: Training and development	r = 0.413, p = 0.003	Reject H02
H03: Compensation and rewards	r = 0.387, p = 0.006	Reject H03
H04: Performance appraisal	r = 0.352, p = 0.012	Reject H04
H05: Employee participation	r = 0.463, p = 0.001	Reject H05
H06: Joint contribution of HRM dimensions	$F(5,44) = 5.985$, $p < 0.001$	Reject H06

8. Discussion

The illustrative results indicate positive relationships between all five HRM dimensions and employee performance. This pattern aligns with the theoretical importance of HRM practices in strategic management (Wright & McMahan, 1992; Delery & Doty, 1996). Recruitment and selection show a positive correlation with performance, which supports the relevance of matching employee capabilities with job requirements.

Carlson et al. (2006) also examine recruitment practices in smaller enterprises. However, recruitment does not achieve individual statistical significance in the regression model.

Training and development show a positive correlation with performance. This relationship reflects the potential relevance of technical knowledge and practical skills in industrial work. Compensation and rewards also show a positive association, while performance appraisal displays a positive relationship consistent with the importance of clear standards and constructive feedback.

Employee participation records the strongest bivariate correlation. This result provides an illustrative example of the relevance of communication and employee involvement, themes also discussed by Saini and Budhwar (2008). Nevertheless, employee participation does not show a statistically significant independent regression coefficient. The overall regression model is statistically significant, but the individual coefficients are not.

9. Conclusion

Human resource management practices provide an important framework for examining employee performance in small-scale industries. The present study considers recruitment and selection, training and development, compensation and rewards, performance appraisal, and employee participation as key HRM dimensions. In the analysis of 50 hypothetical respondents, all five dimensions show positive and statistically significant bivariate correlations with employee performance. The overall regression model explains 40.5% of the variation in performance scores and is statistically significant. However, none of the individual regression coefficients reaches the 5% significance level when the five predictors are considered simultaneously.

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