

## Exploring the Relationship between Workplace Diversity and Staff Output in Indian Manufacturing Sector

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### Abstract

Diversity in workforce management is becoming more widely recognized and used as a valuable organizational advantage. This holds true whether the goal is to create an extraordinary work environment, deliver exceptional customer service, or maintain a competitive advantage. This issue is becoming recognized as having a significant impact on corporate success, particularly in India's industrial sector. Managers must be confident in and understand the concept of workplace diversity, including all of its benefits and cons. The current analysis looked at the possible impact of workplace diversity on employee productivity in India's manufacturing industry. The goal of this study was to investigate the effects of diversity in the workplace on the staff output. A stratified random selection procedure was used to choose the 240 participants for the study. The Indian Manufacturing Sector employed a broad workforce, including department heads, permanent employees, contractual workers, and daily wage earners. Data was acquired using a worksheet. The results were obtained using the Pearson Correlation and Regression Analysis Tests. The study found that religious, cultural, educational and regional diversity had a negative impact on employee work performance. The existence of language diversity in a team improves worker productivity and staff output.

**Keywords:** Religious diversity, Cultural diversity, Educational diversity, Regional diversity, Language diversity, Staff output.

### Introduction

Organizations can no longer overlook the value of diversity. Since its beginnings, the concept of diversity has evolved from a government or legal necessity to a strategic goal. Organizations worldwide are embracing diversity to become preferred employers and maintain a competitive advantage (Chopra *et al.*, 2024). Johari and Jha, (2021), just acknowledging or accepting diversity as a concept does not guarantee success. To manage diversity effectively, firms must actively exhibit appreciation, value, and support for their employees' diverse backgrounds.

Diversity management has become extremely important for multinational corporate executives. However, the extent to which the goal of diversity management in the workplace is met is largely determined by how employees view the organization's commitment to diversity as evidenced by its equitable employment practices (Tanwar and Prasad, 2016). Alqatan, (2019), employees can assess their organization's commitment to diversity by monitoring its work environment, rules, and processes. To successfully exploit workforce diversity to improve performance, businesses must ensure that employees have a good opinion of the organization's diversity initiatives (Byrne *et al.*, 2020). Furthermore, the degree to which employees are responsive to diversity and open to diversity management has a significant impact on initiative success and efficacy. Employee perspectives and experiences with various expressions of diversity challenges are important predictors of performance (Gomez and Bernet, 2019). However, there is a scarcity of scholarly studies that have particularly investigated employees' opinions on diversity and the potential benefits of such attitudes. A study was conducted to investigate the impact of religious, cultural, geographical, educational, and linguistic diversity on employee performance. Following an assessment of the relationship between diversity and demographic features, we evaluated its impact on

organizational performance (Hawi *et al.*, 2015; Alrowwad *et al.*, 2020).

Our primary focus is on investigating employees' reactions to diversity. This is critical because, as Mousa *et al.*, (2020) contends, the impacts of variety are determined by individual perceptions. The relationship between organizational success, job satisfaction, and diversity outcomes and employees' views and attitudes toward diversity is strong. A thorough understanding of employees' tasks and functions can help identify opportunities for improvement, hence increasing the effectiveness of diversity programs inside firms (Kaur *et al.*, 2024). Furthermore, Chen *et al.* (2021) argue that companies can successfully capitalize on the complex and varied character of diversity by comparing the staff output component to real diversity. In addition, the result was reached via a subjective appraisal of the company's performance. The majority of prior studies on the effects of diversity used objective measurements (Andoh *et al.*, 2019; Clark *et al.*, 2021). However, Chen *et al.*, (2021) argue that subjective metrics, which are perceived, allow for a broader variety of judgments and a more comprehensive depiction of an organization's efficacy. As a result, they enable comparisons of multiple companies inside a single study. This study explores the impact of staff production on language diversity, religious diversity, cultural diversity, and regional diversity using a subjective metric for measuring outcomes. A variety of variables influenced the choice of India as the study's location. The social environment surrounding diversity in India differs significantly from that of Western nations (Anglim *et al.*, 2019; Porcena *et al.*, 2021), making it an ideal setting for the study of diversity. Furthermore, the Indian economy has grown significantly since admitting foreign capital in 1991. The World Bank predicts that by 2030, India would have the world's largest economy. As a result, several global businesses have joined the Indian market (Clohessy and Acton, 2019; Wang and Fang, 2020). These firms face the problem of responding to the distinctive needs of the Indian workforce while also meeting business imperatives, including diversity issues (Zhang *et al.*, 2021). Furthermore, India's economy is classified as emerging or developing, distinguishing it from countries such as the United States, which have been the subject of earlier study on diversity. Because of the significant differences in cultural values throughout Asian countries, these researches may not provide a totally true picture of the issue (Barak, 2022; Frazer *et al.*, 2021).

Workforce diversity is both the most difficult and the most exciting challenge for managers in the twenty-first century. Diversity management is a strategic strategy that promotes the recognition, acceptance, and integration of diversity within businesses (Creary *et al.*, 2021; Flory *et al.*, 2021). The varied workforce in organizations poses both the greatest challenge and opportunity for managers in the twenty-first century. Diversity management is a company strategy that aims to increase understanding, acceptance, and utilization of diversity. The impact of working with a diverse set of people on management is important (Emerson *et al.*, 2021). Managers must stop treating all groups of workers the same and instead recognize the differences both between and within them. These recommendations must be followed in order to prevent worker discrimination while also increasing innovation, productivity, and retention. Effective management policies and initiatives improve inter-employer communication and overall organizational productivity. Modern firms must have a thorough awareness of and effectively manage their varied workforce (Celikdemir and Katrinli, 2020; Evan *et al.*, 2023).

Indian businesses are gradually using workforce diversity management. Organizations invest substantial efforts in managing employee diversity in order to improve morale and performance. However, they frequently fail to produce the anticipated results. The reason for this is that the majority of businesses are not forced to follow diversity guidelines, resulting in a lack of effort to actively promote diversity. This assertion is also true for the Indian manufacturing sector. According to social identity theory and realistic conflict theory (RCT) at the workplace, individuals must feel a sense of belonging to a specific social group. Furthermore, these theories suggest that most people prioritize their personal interests, which extends to their job conduct (Goldberg *et al.*, 2019; Arundel *et al.*, 2021). This sense of identification creates a sense of integration into the organization, spanning both official and informal environments.

The breakdown of effective corporate communication has resulted in adversarial working interactions, as expected given people's self-centered tendency. Effective anxiety management and regulation can boost people's creativity and performance in their work lives. Political sway, cultural inequalities, and firms' inclination to ignore skilled people owing to bureaucratic barriers are all challenges in workplace diversity management. Furthermore, the majority of firms follow diversity requirements out of obligation rather than seeing them as a potential strategic advantage (Alserhan *et al.*, 2010; Gross-Golacka *et al.*, 2022). Due to a scarcity of talented workers, the Indian manufacturing industry must quickly identify and exploit the entire range of skills possessed by its personnel. Effective workforce diversity management is critical to attaining this. Dahlin *et al.*, (2005) there are insufficient human resource policies and processes in place to promote workplace diversity. Employee attrition, particularly among key workers, is a serious risk to businesses because it jeopardizes the retention of critical skills and lucrative clients. Both variables could lead to deterioration in overall organizational performance as well as an increase in employee recruitment and termination costs. Excessive personnel

turnover will eventually reduce the company's ability to remain functioning.

The presence of a diverse workforce has significant implications for management. Management must shift from treating all groups of workers similarly to recognizing the differences between and within them. They should enact policies that encourage innovation, increase production, reduce employee turnover, and prohibit all forms of discrimination. Effective management policies and initiatives will have a substantial impact on employer-employee communication and overall organizational productivity. Contemporary firms must recognize and manage the diversity of their employees (Morgan, 2005; Haefner *et al.*, 2021).

Many Indian firms are gradually using workforce diversity management. Despite conscious efforts to invest in workforce diversity management in order to boost employee morale and performance, firms seldom see the expected results. Worker diversity is not promoted in the Indian manufacturing sector since most firms lack legal underpinnings for diversity efforts. According to the theory of social identity and realistic conflict theory (RCT) in the workplace, individuals have an innate desire to belong to a specific social group, and most people prioritize their own interests, which also applies in the workplace (Pinder, 2014; Hauret and Williams, 2020). This sense of belonging allows people to feel integrated into the organizational system, which includes both formal and informal settings.

The collapse of effective organizational communication has resulted in adversarial relationships among employees due to self-interest, which is completely inescapable. When a conflict is efficiently managed and regulated, it increases innovation and performance. Workforce diversity management faces challenges such as political influence, cultural disparities, and exclusion of skilled employees due to bureaucratic processes (Pitts *et al.*, 2010; Herbert *et al.*, 2023). Additionally, many organizations only comply with diversity management due to legal obligations rather than recognizing its overall benefits, limiting their engagement. The Indian manufacturing sector must urgently solve the talent shortage by actively pursuing and exploiting all employees' full talents through strong workforce diversity management practices. The implementation of effective human resource policies and procedures that embrace worker diversity is insufficient, according to the 2008 OSP report. Employee turnover, particularly among those in key roles, can expose businesses to potential risks that could jeopardize their core competencies and result in the loss of critical clients. Both situations could result in a decrease in organizational performance and an increase in personnel costs. Finally, high personnel turnover will have a negative impact on the organization's long-term profitability and sustainability (Hossain *et al.*, 2020).

Religious diversity, cultural diversity, language diversity, educational diversity, and geographical variety are prioritized based on findings from previous study conducted in India (Sekaran, 2012). Furthermore, the fact that Indian society is made up of people from varied religious, cultural, geographical, educational, and linguistic origins makes it easier to categorize them (Shenoy, 2013). On the other hand, attempts to improve diversity in Indian manufacturing enterprises have primarily addressed concerns of disability and gender (Sayers, 2014).

Individuals perceive cultural differences as basic, usual, and delightful, making it easier for organizations to accept diversity. Managers must understand and embrace the inherent variety that occurs in both the workforce and individuals, since it is a continuous and crucial component of the organization. The organization works tirelessly to attract and retain top-tier talent. Employees' worldviews are influenced by the distinct characteristics they bring to the firm. The composition of India's population has changed dramatically over the previous two decades. Those who had previously lived in rural areas moved to cities in search of improved job opportunities. Their social and cultural origins are different. The presence of population fluctuations compels public sector administrators to face new and challenging challenges. Neglecting diversity in the workplace may have a negative impact on employee productivity and performance by undermining mutual respect, cooperation, trust, and understanding. Organizations constantly strive to boost productivity by recognizing and appreciating the many approaches individuals take to achieve company goals. Employees from various backgrounds must be able to perceive, comprehend, appreciate, and derive satisfaction from their unique characteristics (Singh and Vinnicombe, 2004). Diversity in the workplace refers to the specific similarities and differences among personnel. This category includes the following variables: age, gender, employment situation, opinions, ethnicity, marital status, region, professional background, sexual orientation, income, and country of origin. The aforementioned factors underpin the organization's fundamental ideas and convictions (Zhuwao, 2017).

The existence of diversity among an industrial company's staff can have both positive and negative effects on employee productivity (Dalal and Akdere, 2023), workplace diversity can have a positive impact, such as broadening perspectives. Javaid, (2022), concerns with group uniformity have led to an unsatisfactory outcome. The overall impacts of workplace diversity are still unknown and uncertain.

Placing a premium on diversity within a company provides clear benefits, whilst ignoring diversity leads in obvious

negatives. Regardless of color, the majority of managers are not prepared to navigate cultural differences. Managers bear a significant responsibility for preparing their staff to navigate workplace diversity. The Indian manufacturing business is marked by a diversified workforce made up of people from various cultural backgrounds; as a result, it is challenging to effectively manage employees from various socioeconomic strata. These personnel demonstrate a wide range of characteristics, including religion, culture, geography, education, and language. The aforementioned traits influenced employees' perceptions of the organization and had a long-term impact on their job performance.

The current work environment is distinguished by an unprecedented degree of variety. The importance of this topic has grown significantly among scholars and practitioners. Workplace diversity includes a wide range of factors such as linguistic, religious, cultural, educational, and geographic diversity. The cohesiveness of the labor force can have a significant impact on the level of cooperation, competency, and overall productivity of an organization. The diversity of manufacturing sector people in India reflects the country's society as a whole. As a result, the industry provides an ideal context for studying the relationship between workplace diversity and employee output. Workplace diversity refers to the various differences that exist among the employees of a certain institution. It includes not just gender and race, which are well-known aspects of variety, but also language, educational background, religion, culture, and geographical location. The importance of effectively managing a diverse workforce has grown as global firms have expanded and foreign marketplaces have become more integrated (Rana and Singh, 2022). Effective diversity management can lead to a variety of benefits, including better employee satisfaction, improved problem-solving ability, and more creativity. All of these characteristics have the potential to increase productivity and improve the organization's overall performance (Kaur, *et al.* 2024). The purpose of this study is to investigate the impact of workplace diversity on employee output in the manufacturing sector. The following are crucial research questions: To what extent is the Indian manufacturing sector diverse? What is the relationship between manufacturing company workers' work performance and the presence of people from various educational backgrounds in the workforce? To what extent does linguistic variety affect the efficiency of personnel in a manufacturing organization? What is the relationship between industrial laborers' job performance and the many religious beliefs they hold? What is the impact of cultural diversity on manufacturing sector employees?

## Literature Review

Workforce diversity management refers to the deliberate measures an organization undertakes with the purpose of attracting, acknowledging, and promoting a workforce that is diverse and inclusive (Pathomphattaphan, 2024). The principal incentive underlying the workforce diversification initiative was to significantly increase the supply. The principle of equal opportunities seeks to capitalize on the varied competencies and aptitudes possessed by the staff of an organization, as opposed to neglecting valuable skills that may improve the efficiency and efficacy of the establishment (Sharmaa and Singh, 2021). An organization's effectiveness can be evaluated through the utilization of a range of indicators, such as output, profits, growth, attrition, stability, and cohesion (Suganthi, 2019). It is common for organizations to endeavor to improve their performance and accomplish their strategic goals throughout their existence. Proficient organizations recognize the critical nature of performance enhancement in order to sustain their operations and ensure continued profitability (Garg, 2017). Kumar *et al.* (2018), businesses frequently endeavor to preserve a competitive edge. To accomplish this, numerous organizations adopt strategies, approaches, and mentalities that increase their probability of attaining the highest levels of performance.

Goswami and Goswami, 2018) define workplace diversity as employees' variances in nationality, religion, ethnicity, gender, experience, education, language, and culture. Diversity in the organization's staff is critical for promoting innovation and creativity and increasing the business's competitiveness. This necessitates considering each employee's religious, intellectual, cultural, and racial backgrounds (Hofstede, 2001). The achievement of workplace diversity is a difficult aim that individuals face due to the numerous mental barriers that impede progress. Due to these limits, some people may come to reject the concept of variety in favor of viewing it solely through their own cultural or religious lens. Alkandi *et al.*, (2023) found that gender-based bias against women is more prevalent among men, that people tend to reject religions other than their own, that opportunities differ between individuals, and that discrimination is more prevalent among specific social groups.

Kumar and Gupta, (2023). have demonstrated a variety of techniques to encouraging workplace diversity. One option is to develop constructive and inclusive policies and practices to promote diversity. These restrictions covered the execution of recruitment techniques intended at including people of various ages, backgrounds, races, and cultures. Furthermore, they emphasized the importance of encouraging religious and cultural assimilation while rejecting discrimination. Evan *et al.*, (2023), promoting a corporate culture based on respect and inclusiveness will increase diversity and build an understanding

and admiration for individuals' abilities, experiences, and joint endeavors.

Strategic differentiation from rival firms through the exhibition of exceptional performance can grant a company a competitive edge. Furthermore, this may promote consumer loyalty, facilitate the acquisition of a greater market share, and nurture a favorable brand reputation. As stated by Zhang (2020), performance enhancement contributes to a more positive work atmosphere, which in turn increases employee retention and satisfaction. In conclusion, enhanced operational efficiency may foster the development of innovative ideas that can aid an organization in sustaining a competitive advantage and adjusting to changing market conditions (Al-Qatan, 2019).

Gomez and Bernet (2019) was to examine the influence of diversity in the workplace on the operational outcomes of healthcare organizations. A comprehensive analysis of prior research conducted from 2000 to 2018 was utilized to determine the extent to which variables including race, gender, age, and language affected the efficacy of health organizations. The results of the research demonstrated that when individuals of various racial, gender, experiential, and qualification backgrounds were incorporated into a single group, levels of innovation and creativity increased substantially. In their systematic review, Chen *et al.*, (2021) investigated prior research concerning workplace diversity in Asia-Pacific organizations and the approaches that were employed to tackle this concern. We analyzed scholarly articles published between 2000 and 2020 that investigated levels of diversity in the workplace and strategies for promoting diversity for the organization's benefit. The findings of the study indicate that the Asia-Pacific region demonstrates a considerable degree of diversity. The cultural norms and values of the organization influence this diversity. Furthermore, employees encounter additional obstacles as a result of the diversity they encounter, which they find difficult to accept on account of cultural and ethnic distinctions.

Ranta and Ylinen in 2023 was to examine the influence of salary discrepancy between managers and non-managers on diversity in the workplace, and the contribution of this diversity to the development of machine learning principles. Using a qualitative methodology, the research investigated prior studies concerning gender diversity in the workplace, focusing on a representative sample of Finnish businesses. Additionally, the factors that contribute to increased workplace diversity in these organizations were investigated. The research findings indicated that the inclusion of a wide spectrum of genders in the work environment strengthened the foundational elements of diversity within Finnish organizations. Additionally, the study identified the factors that would influence workplace diversity, such as the scale of the organization, the nature of the managerial positions, and the field of study.

Selin, (2022) was to examine the influence of diversity in the workplace on the performance of employees at a subset of universities in Ghana. In order to gather qualitative and quantitative data, 290 employees of four privately-owned colleges in Ghana were surveyed. The findings of the research indicated that the performance of personnel in private colleges was notably enhanced by the existence of diversity in the work environment. In addition, employees exhibited a greater propensity for engagement and active participation in their work environments characterized by diversity.

Nyagadza *et al.*, (2022) conducted a study to investigate the effects of workplace diversity on inclusion and equity in the Zimbabwean labor market. A collective of 150 personnel employed by private enterprises in Zimbabwe were prompted to provide quantitative data. In the examined organizations, the decline in diversity in the workplace was relatively moderate, according to the analysis. Additionally, wage gaps between the sexes hindered job performance and fostered the development of antiquated cultural practices that are incompatible with modern workplace norms.

Vairavan and Zhang (2020), study was to examine the effect of diversity in the workplace on the competencies of a sample of Nigerian businesses. For the collection of primary data, a survey was conducted among a sample of 400 employees. Efficiency can be increased by a group through the collaboration of members with diverse origins, as demonstrated by the study. Furthermore, a correlation was identified by the analysts between variety and efficiency. There was a prevailing belief that by cultivating diversity within the workplace, organizational efficiency could be augmented through increased employee engagement.

Zhang, (2020). investigate the correlation between employee retention and workplace diversity amidst the COVID-19 pandemic. The survey was distributed to a cohort of 250 personnel hailing from diverse Thai organizations. A positive correlation was found between employee retention and workplace diversity, according to the study. Diversity fosters an environment that is more welcoming to employees and more inclusive of all, thereby increasing the probability that they will remain in their positions and perform at a high level. Ultimately, this results in enhanced organizational outcomes.

The aim of Selin's 2022 study is to examine the effects of diversity and inclusion in the workplace on the satisfaction of guests and employee performance at Marriott International Inc. The researcher investigated the Marriott Hotel using a case study approach, collecting information from the hotel's staff as well as its financial and non-financial records. The research findings indicated that the Marriott conglomerate's adoption of essential diversity principles in the workplace had a

substantial impact on the retention of highly skilled personnel and improved their job performance. The overall prosperity of Marriott was reliant on the degree to which they were received and recognized. Vairavan and Zhang (2020) conducted a research investigation to assess the relationship between an organization's overall performance and its ability to collaborate with individuals of diverse ethnic backgrounds in a cohort of American firms, with an emphasis on the influence of social responsibility. A quantitative approach was utilized to carry out a survey spanning the years 2013 to 2017. A total of 437 American corporations, which were incorporated in the P500 and S index, were surveyed. There was a correlation between ethnic diversity and the propensity to fulfill social obligations, according to the study. Simply put, an organization's recognition of the unique qualities of individuals from various ethnic backgrounds and its dedication to social responsibility are both exemplified through the representation of numerous ethnic groups within its workforce. As a result, this leads to enhanced efficacy. In essence, the incorporation of personnel representing various racial backgrounds into an organization can buttress its dedication to social responsibility, thereby positively impacting productivity.

Porcena *et al.*, (2020) was to clarify the ethical ramifications that arise from the correlation between diversity in the workplace and the overall success of an organization. A quantitative methodology was utilized in this study, wherein a questionnaire was disseminated to a sample of 288 American groups. The research study found that the presence of a diverse workforce contributes to the improvement of an organization's ethical framework, thereby enhancing its overall operational efficiency. Zhang *et al.*, (2020) sought to ascertain the effect of gender composition on the performance of an organization. Utilizing a quantitative approach, the research gathered information from 1205 cohorts spanning 29 countries and five years, from 2010 to 2014. The findings of the research demonstrated that gender diversity in the workplace has a substantial and favorable effect on the organization's overall performance. This is especially true for organizations situated in developed countries, where gender relations are inherently governed by principles of fairness and objectivity.

Organizational study has been increasingly concerned with the significance of workplace diversity. Scholars are now investigating the implications on employee productivity and the overall success of the firm. People who work in the Indian industrial sector come from a wide range of backgrounds. To maximize operational efficiency and maintain a competitive edge in the industry, it is critical to understand the relationship between employee performance and workplace diversity. This research review examines how religious diversity, cultural diversity, language diversity, regional diversity, and educational diversity affect worker productivity in the Indian manufacturing industry.

### **Religious Diversity**

Organizations require religious diversity in the workplace as a preventive measure against xenophobia and prejudice, both of which are widely viewed as severely negative outcomes. Religious diversity entails hiring people who follow a variety of religious traditions, beliefs, and practices in order to foster a more inclusive and harmonious work environment while also respecting the rights, convictions, and religious practices of others (Barak, 2022). The word "faith variety" refers to the coexistence or cooperation of people from different religious denominations. Religious diversity has the potential to enhance and foster inclusivity in an organization's culture. Nonetheless, it might be challenging to understand and accommodate persons with various religious affiliations (Cox & Blake, 1991). The effective management of religious diversity inside industrial firms is critical in India, given the significant impact that religious diversity has on the country's social fabric. Jehn, Northcraft, and Neale (1999), problems can occur as a result of insufficient religious diversity management. The benefits of religious diversity can be leveraged by inclusive organizations that promote religious tolerance. Richard *et al.*, (2004) found that firms that valued religious diversity had higher levels of employee loyalty and satisfaction.

### **Cultural Diversity**

Cultural diversity is defined as the presence of employees who follow distinct traditions, practices, and values. The manufacturing business in India benefits from the country's diversified society and significant historical history, which have contributed to a high level of cultural diversity. Cultural variety has the ability to promote creativity and innovation (Hofstede, 2001). However, it may provide challenges in terms of maintaining clear and succinct communication and preventing misconceptions (Lauring & Selmer, 2011). According to a 1991 study by Cox and Blake, organizations that value ethnic diversity have a higher proportion of inventive and skilled problem solvers. To combat the negative effects of cultural variety, such as disagreement and weakened unity, effective management measures must be implemented (Pelled 1996).

### **Educational Diversity**

Educational diversity refers to the presence of persons with a variety of scholarly degrees and levels of skill. Individuals employed in India's manufacturing sector have diverse educational backgrounds, ranging from vocational training to higher

academic degrees. Mannix, Thatcher, and Jehn (2001) argue that integrating a diverse range of educational backgrounds can support the development of a work force known for its outstanding adaptability and proactive readiness to embrace technological advances. According to research, integrating workers with varied educational backgrounds can boost business performance by facilitating information exchange and stimulating the production of fresh concepts (Richard et al., 2004). Promoting constructive collaboration among people with varied educational backgrounds, on the other hand, can be a daunting task (Van Knippenberg *et al.*, 2004). To fully capitalize on the benefits of school diversity while limiting its potential drawbacks, strong leadership and communication skills are essential.

### **Regional Diversity**

Regional diversity is described as the presence of employees who are native to various geographical places and follow distinct cultural customs. India exhibits a noteworthy degree of regional heterogeneity as a result of significant variances in languages and civilizations across the country. Individuals from various regions of the country have the ability to provide fresh ideas and specialized knowledge to the manufacturing industry. Nonetheless, preserving regional uniqueness demands understanding and appreciating the unique traditions and customs of each location (McLeod *et al.*, 1996).

Triandis *et al.*, (1994) found that promoting varied cognitive processes can foster organizational creativity, hence increasing regional diversity. Nonetheless, collectives must overcome potential obstacles caused by regional prejudices and preconceived notions (Jehn, 1995). Organizations can capitalize on the benefits of regional diversity while mitigating any potential negative effects on staff productivity by building an accepting and inclusive workplace.

### **Language Diversity**

Language diversity refers to the presence of personnel who are fluent in a variety of languages. India's workforce is linguistically diverse, with employees communicating in a variety of languages and dialects. While multilingualism promotes effective collaboration and communication (Lauring & Selmer, 2011), it can also cause issues with comprehension and assimilation. Watson *et al.*, (1993) study provides empirical data supporting the idea that language variety can have an impact on the performance and dynamics of multicultural teams. To enhance collaboration and overcome language obstacles, it is necessary to use effective communication tools such as translation services and language teaching.

The work environment in India's industrial industry is influenced by religious, cultural, educational, geographical, and linguistic diversity. Each sort of unpredictability presents unique opportunities and challenges. Diversity can boost a company's success by fostering creativity and innovation. However, if not managed properly, it can cause communication breakdowns and conflict. To maximize worker productivity, manufacturing businesses should implement strategies that recognize and reward the considerable contributions made by employees from various backgrounds. This may entail establishing support networks for underrepresented communities, disseminating knowledge about the value of inclusivity, and cultivating an environment that fosters cooperation and mutual respect. Indian manufacturing enterprises looking to expand and boost their competitiveness in an increasingly international market should implement workplace diversity efforts and address their difficulties efficiently.

### **Conceptual Framework**

Campbell (2023) shown, using actual data collected from both academic and practical contexts, that workplace diversity creates visible and tangible benefits. Ruiz *et al.*, (2021), workplace diversity fosters innovation and creativity by bringing together professionals with diverse backgrounds, experiences, and areas of expertise. Celikdemir and Katrinli (2020), variety is vital for successful issue solving since it introduces innovative ideas and viewpoints. Fine *et al.*, (2020) research, a diverse workplace promotes productivity by instilling a sense of appreciation and respect for all persons, regardless of differences. This leads to an improvement in their work motivation, productivity, and performance. In addition, the work environment has an impact on customer service quality. Employees who feel valued, recognized, and treated fairly at work are more likely to provide high-quality customer service.

Alrowwad et al. (2020) define organizational performance as the extent to which a specific organization achieves the predetermined goals and objectives of its strategic blueprint. Singh and Banerji, (2022). describe organizational performance as the effective use and management of an organization's resources to provide benefits for the organization, its employees, and its stakeholders. An organization's performance is evaluated using a variety of criteria, including financial performance, operational efficiency, employee satisfaction, customer contentment, and social responsibility awareness (Jaiswal and Dyaram, 2020). Jaiswal and Dyaram, (2019). found numerous factors that influence an organization's performance. The determinants include the company's strategy, culture, organizational structure, internal processes, leadership, and management. Kundu

and Mor, (2017), evaluating organizational performance is critical in determining the degree of progress or regression inside the company. Furthermore, he emphasized that the measurement of organizational success takes into account both financial and non-financial aspects.

### Dimensions of Diversity in the Indian Manufacturing Sector

#### Religious Diversity:

India is home to a diverse set of religious traditions, including Jainism, Islam, Christianity, Sikhism, Buddhism, and Hinduism. The participation of workers from various religious affiliations inside the professional setting has the potential to result in approach and task change, as well as provide a plethora of distinct ideas and techniques. Triandis (1994), understanding and embracing religious differences can improve teamwork and elevate spirits.

#### Cultural Diversity:

Cultural variety is defined by the existence of individuals with distinct ideas, customs, and methods of doing activities that stem from their diverse backgrounds. The use of various problem-solving methodologies and viewpoints can foster innovative solutions. However, the project may create challenges in the form of ambiguity and communication issues (Basavaraj and Bala, 2022).

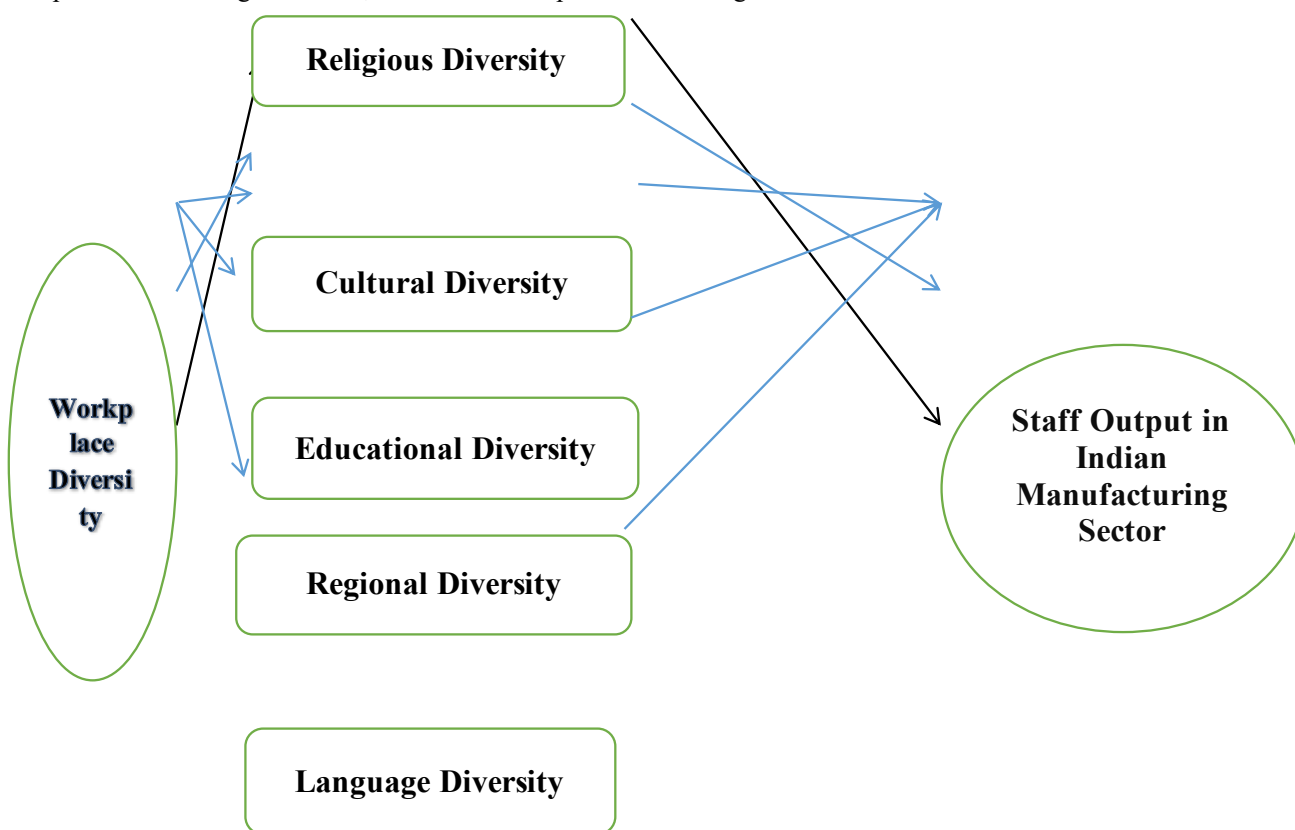
#### Educational Diversity:

Those employed in the industrial sector come from a wide variety of educational backgrounds, ranging from high school diplomas to doctoral degrees. The inclusion of people from various educational backgrounds can help to create a highly skilled and versatile labor force capable of tackling complex difficulties and adapting to technology advancements. Individuals may have different interpersonal communication criteria and tactics (Mannix *et al.*, 2001; Kuknor and Bhattacharya, 2021).

#### Regional Diversity:

India is a huge territory with distinct language, cultural, and labor customs. Regional diversity in the workplace can improve an organization's adaptation and resilience. However, in order to appropriately cater to the diverse needs and preferences of people in different places, management may need to change their tactics (McLeod *et al.*, 1996).

**Language Diversity:**  
The contribution of linguistic diversity to the Indian labor force is significant. Numerous dialects and more than 22 recognized languages exist. Although being fluent in numerous languages might improve intellectual capacity and competitiveness on a global scale, it can also make professional integration and communication more difficult.





## Conceptual Framework

### Research Methodology:

#### Demographic Profile

The total sample size was 240, with 64% men and 36% women. 15% of responders are between the ages of 22 and 27. 30% of respondents are between the ages of 28 and 33. 26% of respondents are between the ages of 34 and 39, with 19% falling between the ages of 39 and 44. 10% of responders are over the age of 46 years. 57% of respondents were undergraduates, whereas 43% were postgraduates. 31% of respondents' experience is less than ten years. 28% of respondents have between 11 and 20 years of experience. 21% of respondents have between 21 and 30 years of experience, while 20% are over the age of 30.

**Table1: Demographic Profile**

Gender	f	%
Male	153	64%
Female	87	36%
<b>Age (Years)</b>		
22-27	37	15%
28-33	71	30%
34-39	62	26%
40-45	45	19%
46+	25	10%
<b>Qualification</b>		
UG	137	57%
PG	103	43%
<b>Experience</b>		
>10 Years	75	31%
11-20	67	28%
21-30	51	21%
<30 Years	47	20%

The quantitative methodology was chosen as the major data gathering approach for this study in order to achieve the main goal quickly. The researchers used a quantitative methodology since it is more suited to bigger sample numbers, allowing for the extrapolation of findings to a larger population.

#### Population and Sample Size

The practice of gathering information from key informants within an organization has been widely adopted in many business research projects. The study sample included managers in various hierarchical positions at manufacturing facilities in northern India and Delhi -NCR. The current study used disproportionate stratified sampling, which involved partitioning the target population into discrete cohorts. The rationale for this decision stemmed from the disparity in group sizes; certain groups, including Deputy Managers, have fewer members than others, such as department or unit heads, who have more members. Following that, individuals for the designated group were randomly chosen from each unique subgroup. A total of 300 questionnaires were distributed manually and 240 questionnaires were returned, accounting for an 80% response rate.

#### Research instruments

For response collecting, the researchers used five-point Likert scales with the subjects. The employees received a 19-item survey with response options ranging from "Strongly Agree" (value "5") to "Strongly Disagree" (value "1"). Each item used a five-point Likert scale, with a five representing "strongly agree" and a one indicating "strongly disagree." The study was conducted in Northern India because of its ideal geographical location. The preliminary research provided useful insights for the questionnaire's design. The research consisted of two main components. The previous section examined the demographic characteristics of the cohort under research, whereas the following segment presented statements about the variables under inquiry.

#### Descriptive Statistics

Table 2 displays the descriptive statistics for a dataset that included measurements of staff productivity and workplace diversity across many dimensions. The value of this parameter represents the variable's standard deviation, which measures

the degree to which the data points deviate from the mean. Skewness is a statistical concept that measures how uneven the distribution of data is. The absence of skewness suggests that the distribution is slanted to the left. Kurtosis measures the "tailedness" of a distribution. A positive kurtosis number indicates that the distribution's endpoints are heavier than they would be if it were normal. A negative score suggests that the ends are lighter in weight. The table contains descriptive data for each variable, such as RD1, RD2, CD1, and others. These characteristics are most likely to manifest as religious, cultural, linguistic, educational, and regional variety, among others. Furthermore, they show numerous indications of employee productivity, such as engagement, satisfaction, and performance. The row labeled "Valid N (listwise)" reflects the number of occurrences in which each variable used in the study has non-null values. Complete data for all 240 instances included in this study are relevant to the factors being investigated.

**Table 2 :Descriptive Statistics**

	N Statistic	Mean Statistic	Std. Deviation Statistic	Skewness Statistic	Std. Error	Kurtosis Statistic	Std. Error
RD1	240	4.12	.704	-.426	.205	-.050	.407
RD2	240	4.29	.660	-.842	.205	1.496	.407
RD3	240	4.40	.621	-.710	.205	.481	.407
CD1	240	4.29	.782	-1.575	.205	4.028	.407
CD2	240	4.34	.630	-.580	.205	.295	.407
CD3	240	4.36	.636	-.470	.205	-.654	.407
ED1	240	4.31	.622	-.322	.205	-.641	.407
ED2	240	4.31	.656	-.573	.205	.065	.407
ED3	240	4.33	.917	-1.554	.205	2.484	.407
RGD1	240	4.36	.602	-.363	.205	-.655	.407
RGD2	240	4.40	.597	-.427	.205	-.661	.407
RGD3	240	4.47	.593	-.623	.205	-.547	.407
LD1	240	4.44	.660	-1.386	.205	4.064	.407
LD2	240	4.49	.581	-.640	.205	-.553	.407
LD3	240	4.54	.568	-.740	.205	-.461	.407
SO1	240	3.88	.925	-.530	.205	-.249	.407
SO2	240	4.14	.976	-1.266	.205	1.336	.407
SO3	240	4.02	.971	-1.145	.205	1.293	.407
SO4	240	4.08	.937	-.956	.205	.635	.407
SO5	240	4.07	.957	-1.244	.205	1.653	.407
Valid N (listwise)	240						

### Scale Reliability

The table displays the results of an examination that determined the reliability of various scores in assessing essential factors of workplace diversity and employee productivity. Cronbach's alpha is a widely used statistical metric for determining the internal consistency of a survey or questionnaire item set. Its objective is to assess the reliability of the aforementioned measures. A detailed explanation of each component of the table is provided below: The items on the Religious variation Scale have a high level of internal consistency (0.832), demonstrating their reliability as tools for measuring the construct of religious variation. Diverse cultural communities An internal consistency level of 0.764 indicates a high level of Cronbach's alpha in the data. When it comes to quantifying regional diversity, the instruments are quite consistent. There are numerous sorts of education. A Cronbach's alpha coefficient of 0.824 indicates a high level of dependability when analyzing educational variation within a given cohort. Regional Variation A Cronbach's alpha coefficient of 0.747 indicates a high level of item consistency when analyzing regional variance. Diverse language types

are evaluated consistently, as evidenced by a Cronbach's alpha score of 0.756.

The staff's behavior Cronbach's alpha coefficient of 0.814 indicates that the items in question can be used to assess staff productivity. Cronbach's alpha values show that the assessment tools used to examine the association between employee performance and workplace diversity are internally consistent and reliable. It is critical to maintain high dependability since it ensures the accuracy and consistency of measurements for all constructions. As a result, the chance of accurate judgments increases.

Strong internal consistency: When values exceed 0.8, as in the cases of Religious Diversity, Educational Diversity, and Staff Output, it indicates that the elements on these scales are very dependable and correspond closely. Overall, the chart demonstrates the dependability of the measurements used to assess various elements of employee productivity and workplace diversity.

**Table 3: Values of Cronbach's alpha**

Variable	No. of items	Cronbach's alpha
Religious Diversity	3	0.832
Cultural Diversity	3	0.764
Educational Diversity	3	0.824
Regional Diversity	3	0.747
Language Diversity,	3	0.756
Staff Output	5	0.814

(Source:

Author)

## Results

### Pearson Correlation Analysis

**Table 4: Pearson Correlation Analysis**

Variables	Pearson Correlation	Staff Output
Religious Diversity	Pearson Correlation	-.065
	Sig. (2-tailed)	.121
Cultural Diversity	Pearson Correlation	-.071
	Sig. (2-tailed)	.588
Educational Diversity	Pearson Correlation	.146
	Sig. (2-tailed)	.0371
Regional Diversity	Pearson Correlation	-.056
	Sig. (2-tailed)	.347
Language Diversity,	Pearson Correlation	.110
	Sig. (2-tailed)	.013

Table 4 displays the correlation analysis results. The study found that religious, cultural, and regional diversity had a negative impact on employee work performance. The existence of language and educational diversity in a team improves worker productivity and staff output. The table 4 shows the results of a Pearson correlation analysis that looked at the association between staff productivity and different categories of workplace diversity (religious, cultural, educational, regional, and linguistic diversity). Each component of the table is briefly described as follows: Language diversity, cultural variety, educational diversity, and regional diversity are all examples of diversity that are being studied. The correlation coefficient measures the nature and strength of the relationship between staff productivity and each category of diversity. The value range is from -1 to 1. A positive result indicates a direct relationship between the sort of diversity present and the output of the employees. A negative correlation is represented as a negative number. There is a negative association between variety and staff productivity. A number approaching zero indicates the lack or negligible linear connection. Quality of significance (two-tailed) A correlation is considered statistically significant when the p-value equals or exceeds one. Statistics are normally regarded significant when the p-value is less than 0.05.

A marginally slight inverse association (-0.065) exists between the number of employees who identify as religious and their level of productivity. The p-value of 0.121 indicates that this link is not statistically significant. A correlation coefficient of -0.071 indicates a weak negative association between staff output and cultural diversity. Based on the p-value of 0.588, we can infer that there is no statistically significant correlation. The correlation coefficient of 0.146 indicates that there is a moderately positive link between employee productivity and educational diversity. The p-value of 0.371 indicates

that this link is not statistically significant. Staff productivity and geographical diversity show a minor unfavorable connection (-0.056). Based on the p-value of 0.347, we can infer that there is no statistically significant correlation. Personnel's ability in various languages may have a minor positive link with their output level. The p-value of 0.013 indicates that a statistically significant association exists between the two variables under consideration. Staff productivity has a marginal link with religious, cultural, educational, and regional diversity; however, none of these correlations are statistically significant. A small but statistically significant positive connection has been found between staff output and language diversity. Staff productivity generally increases marginally with the level of language variation. The association between language variety and staff work is the only one that has statistical significance; the others are not particularly strong. Linguistic variety has a minor but significant impact on staff productivity. On the contrary, our research shows that additional categories of diversity have no substantial impact on employee productivity.

### Regression Analysis

A multiple regression analysis was conducted, with a 95% confidence interval, to explore the impact of workplace diversity on individual job performance. The model was implemented using the framework outlined below:

**Table 5: Model Summary**

Model	R	R <sup>2</sup>	Adjusted R <sup>2</sup>	Std. Error of the Estimate
1	.132 <sup>a</sup>	.019	0.10	6.2611

*a. Predictors constant Rel Div, Cul Div, Edu Div, Reg Div, Lan Div,*

According to the data in Table 5, R Square is 0.019, while R is 0.132a. The two variables have a poor connection, as shown by the standard error of 6.2611 in Table 3. According to the data shown in Table 5, staff productivity in India's manufacturing industry is expected to be about 1.9%. This figure is influenced by religious, cultural, educational, regional, and linguistic diversity.

The table shows the summary results of a regression analysis model that explores the relationship between staff production and a variety of factors, including different workplace parameters. This is a concise explanation of each element offered in the table:

The Design: This applies to the regression model for which a summary is supplied. Religious diversity, cultural diversity, educational variety, regional diversity, and language diversity are all factors at play in this case. This is the initial model. The multiple correlation coefficient assesses the degree of relationship between the outcome variable and its predictors. Staff output and predictors have a weakly positive correlation, as evidenced by R's value of 0.132. R<sup>2</sup>, or coefficient of determination, is a statistic used to assess the amount to which predictor variables may explain the variability observed in the end variable.

The model's diversity components may account for 1.9% of staff output variability (R<sup>2</sup> = 0.019). The model's relatively low numerical value shows that it fails to account for a significant amount of the team's workload variations. Adjusted R<sup>2</sup> is a variation of R<sup>2</sup> that accounts for the number of predictors in the model. The measurement's precision improves dramatically when many predictors are used.

The modified R<sup>2</sup> value of 0.010 indicates that the diversity variables only account for 1.0% of the variability in staff production, considering the interdependence of the components. This shows that the model fails to adequately convey concepts. The figure given is the standard deviation of the residuals, which represent the prediction mistakes. The average distance between measured values and the regression line is calculated.

A mean score of 6.2611 indicates that there is an estimated gap of 6.26 units between the personnel's anticipated and realized production values. This statistic provides information on the precision of the model's predictions. There is a fragile association between staff production and the regression model, which takes into consideration religious diversity, cultural diversity, educational diversity, regional diversity, and language diversity. The collective predictive factors account for only 1.9% of the observed variance in staff production. The explanatory power decreases to 1.0% as the number of variables grows. The standard error indicates a modest level of prediction error. The results show that the diversity parameters in this model have a negligible affect on the prediction of staff production. Factors not included in the model may have a bigger influence on staff performance.

Table 6: Anova

Model	Sum of squares	df	Mean Square	F	Sig.
Regression	380.858	4	92.216	2.426	0.46 <sup>b</sup>
Residual	21177.457	540	39.214		
Total	21558.227	544			

a. Predictors constant Rel Div, Cul Div, Edu Div, Reg Div, Lan Div,

b. Dependent Variable: Staff Output.

The F value from the test for the data is 2.426, as shown in Table 6. P-value 0.046, which is just below the significance level of 0.05. According to the results shown in Table 6, the independent variable has no significant influence on the dependent variable, and the model used failed to predict the dependent variable.

#### Regression Coefficients<sup>a</sup>

Table 7 shows regression coefficients that to what extent depend variable varies with independent variable, in case, all other variables are considered constant.

Table 7: Regression Coefficients<sup>a</sup>

Model	Unstandardized Coefficients		Standardized Coefficients		
	B	Std. Error	Beta	t	Sig.
1(Constant)	56.221	3.514		15.980	.000
Religious Diversity	-0.87	.115	-.043	-.761	.445
Cultural Diversity	-0.65	.131	-.051	1.026	.524
Educational Diversity	.365	.144	.054	-.866	.386
Regional Diversity	-.124	.132	-.045	-.587	.989
Language Diversity,	.462	.186	.108	2.325	.013

Dependent Variable: *Dependent Variable; Staff Output*.

This table displays the results of a regression analysis that looks into the relationship between employee productivity (the dependent variable) and several types of diversity (the independent variables). It calculates the expected impact on staff productivity of a one-unit increase or decrease in each category of variance, assuming all other factors remain constant. We'll now explore and analyze each component separately: Lacking conformity The coefficients (B) represent the size of the change in the dependent variable (personnel output) when the independent variable increases by one unit. The value of the constant or intercept is 56.221. When all independent variables are set to zero, the personnel should produce a result of 56.221. The value assigned to Religious Diversity (RD) is -0.87. Under the premise that all other parameters remain constant, a one-unit increase in religious diversity leads to a 0.87-unit drop in staff productivity. -0.65 is the Cultural Diversity (CD) score. Staff productivity decreases by 0.65 units for every unit increase in cultural diversity, assuming that all other variables stay constant. The ED index, which measures educational diversity, shows that it is 0.365. Under the premise that all other variables remain constant, a one-unit increase in educational diversity equals a 0.365-unit improvement in staff productivity. The regional diversity index (RGD) is -0.124. Assuming all other variables remain constant, each incremental unit of geographical variance reduces staff productivity by 0.124 units. There are precisely 0.462 unique languages (LD). Assuming all other variables stay equal, a one-unit increase in language diversity boosts staff productivity by 0.462 units.

These data represent unstandardized coefficients; however, they have been adjusted to ensure that their mean equals zero and their standard deviation is one. They represent the degree of correlation between each independent variable and the dependent variable, as can be seen. Beta coefficients help to determine the relative relevance of individual independent variables in relation to one another. A beta number represents a more significant influence on the dependent variable. The user hasn't entered any text. To determine whether a coefficient deviates significantly from zero, the t-statistic is used. The probability of a significant variation of the coefficient from zero grows as the absolute value of t increases. The value of this parameter indicates the likelihood that the coefficient is 0, implying that it has no influence. When demonstrating statistical significance, p-values less than 0.05 are commonly used.

Our research found that religious diversity (Sig = 0.445), cultural diversity (Sig = 0.524), educational diversity (Sig =

0.386), and regional diversity (Sig = 0.989) showed no significant differences. However, a substantial difference in linguistic variety was found, as demonstrated by a p-value of 0.013. Taking into account all aspects of diversity, the average staff output is 56,221. Religious diversity has a modest impact on employee productivity. Cultural diversity has a modestly negative impact on staff productivity. Educational diversity has a moderate but significant positive impact on staff productivity. The impact of regional variation on worker productivity is insignificant and of insufficient scale to be apparent. The impact of language variation on worker productivity is both modest and important, as it regularly leads to increased production. Only language diversity showed a statistically significant positive link with staff output among all the diversity parameters tested. Additional types of variety, such as religious, cultural, educational, and geographical diversity, have little influence on this model.

### Conclusion

This study looks into the impact of several types of workplace diversity—including religious, cultural, educational, geographical, and linguistic diversity—on the efficiency of manufacturing workers in India. The study uses Pearson correlation and multiple regression analysis to show how different types of diversity affect personnel job performance. The correlation coefficient (0.110) between staff productivity and the number of languages spoken indicates a small but statistically significant positive relationship (p-value = 0.013). The regression estimate of 0.462 adds to the evidence that having many languages in the workplace significantly increases productivity. This shows that firms where employees speak a range of languages are more likely to have higher levels of productivity. The correlation coefficient (0.146) indicates a fragile positive association. Based on the p-value of 0.371, we can conclude that the two variables do not have a statistically significant relationship. The regression coefficient of 0.365 indicates a positive effect; nevertheless, the absence of statistical significance (p-value = 0.386) suggests that there is insufficient evidence to infer that educational diversity has a substantial impact on productivity.

The low impact on production is substantiated by the negative correlations (-0.065), -0.071, and -0.056 for geographical diversity, cultural diversity, and theological diversity, respectively, with p-values of 0.347, 0.588, and 0.121. Although all three coefficients (-0.87, -0.65) for cultural, religious, and geographical diversity are negative, none of them are statistically significant. As a result, the impact of these types of diversity on employee productivity is minimal.

Workplace diversity can have a wide range of effects on productivity. According to research, the existence of diversity in the workplace can have both positive and negative effects, depending on how it is managed and the specific circumstances. Diverse teams are known to exhibit higher levels of originality and creativity as a result of the inclusion of people with diverse backgrounds and perspectives (Richard, Barnett, Dwyer, & Chadwick, 2004). This is especially important in the manufacturing business, as fresh ideas have the potential to improve both products and processes.

The inclusion of a diverse workforce can improve problem-solving capacities by introducing a variety of viewpoints and techniques. A broader range of perspectives can improve the quality and depth of one's responses (Jehn 1995). Organizations that appreciate variety are better able to comprehend and satisfy a wide spectrum of clients, boosting their market competitiveness (Cox & Blake, 1991).

Cultural and linguistic differences might impede efficient communication and mutual understanding, reducing productivity and collaboration (Pelled, 1996). Inadequate diversity management can also lead to interpersonal conflicts. Differences in staff members' values, beliefs, and behaviors can lead to a lack of collaboration and harmony. Fostering collaboration among persons from diverse backgrounds can be difficult, especially when their work approaches and criteria differ significantly (Van Knippenberg, De Dreu, & Homan, 2004).

The manufacturing industry in India plays an important role in the country's economy, contributing significantly to both GDP and employment opportunities. This geographical area has a diverse range of industries, including automotive, textile, electronics, and pharmaceutical. Each of these situations presents unique problems for promoting diversity in the professional environment. The automobile sector in India is famous for its diversity, as it employs people from all over the country, including those with various educational and skill sets. According to KPMG (2018), Maruti Suzuki and Hero MotoCorp have both implemented diversity programs in an effort to build inclusive workplaces and boost productivity. India's textile industry, usually regarded as one of the oldest, attracts workers from a variety of cultural and geographical backgrounds. Efficiently managing this variety is critical for maintaining peak production and ensuring employee well-being. Due to the rapid advancement of technology, those working in the electronics manufacturing business must be able to quickly adapt to changing situations. In order to create a harmonic merger of technological competency and innovative cognition, a diverse set of academic credentials is required in this specific subject.

The pharmaceutical sector in India benefits from an unusually skilled worker base, with a significant share holding advanced degrees in science and engineering. Given the diverse educational backgrounds of its employees, the industry

places a high value on research and development (McKinsey & Company, 2014). To acquire a full grasp of how diversity might improve an organization's performance, research the relationship between workplace diversity and employee productivity in India's manufacturing sector. This study looks into many types of diversity—linguistic, religious, cultural, economic, regional, and economic—to identify the advantages and disadvantages of having a diverse workforce. Effective diversity management can help the manufacturing sector succeed by promoting improved problem-solving skills, higher innovation, and better market competitiveness (Tanwar, 2016).

This study, which examines the influence of various types of diversity on staff output, contributes to the body of knowledge about the relationship between workplace diversity and employee productivity. According to the data, there is a statistically significant relationship between people's multilingualism and their production levels. The inclusion of multilingual members in a group can significantly improve its operational efficiency and effectiveness. The occurrence could be attributed to the potential advantage that people with diverse linguistic origins bring to the table in terms of effective problem-solving and communication. The obvious implications of these changes on worker productivity are not immediately apparent. In contrast to previous research, which yielded only binary outcomes (good or negative), this study demonstrates the diverse benefits of diversity on individuals in a range of settings (Raina, 2016). The study emphasizes the need of viewing variety as a multifaceted concept, emphasizing the need to examine different types of variance separately. There is empirical evidence that certain types of variety, such as language diversity, can improve an organization's performance.

The results could provide business administrators and managers with vital insights, such as developing the ability to use language Plurality: Organizations should consider measures that encourage collaboration among employees with diverse linguistic skills (Dahiya and Rangnekar, 2020). The aforementioned goal can be achieved by hiring professionals with multilingual skills or providing language instruction to employees. These initiatives have the potential to boost productivity by leveraging the cognitive and communication benefits that come with having a bilingual and diverse staff. Despite the lack of considerable data on the benefits of religious, national, educational, or geographical diversity, it is critical that organizations prioritize fostering an inclusive environment that develops a sense of worth and acceptance for all members. Although there may be a statistically small association between diversity and production, training programs must highlight the relevance of all forms of variety. Firms must recognize that the effects of diversity might vary greatly depending on the unique conditions. It is impossible to develop a strategy for diversity management that is beneficial to everyone. On the contrary, efforts to encourage diversity should be targeted to meet the tastes and characteristics of the personnel, as well as the needs of the current work.

It is critical to highlight the following problems about this study. Precipitated by the scenario, the research incorporates data from India's corporate sector. Its effectiveness may be hindered in particular geographic areas or academic fields. More research is needed to see whether the found links are applicable in a range of circumstances. The study's use of a cross-sectional methodology poses a substantial challenge in establishing direct relationships. Longitudinal studies would be useful for determining the long-term consequences of diversity changes on employee productivity (Seth et al., 2021).

The study focuses on five separate types of variance. Socioeconomic position, age, gender, and other dimensions of diversity should be explored further in order to gain a more thorough knowledge of how diversity affects productivity. The study used self-reported measures of production and variety, which suggests that the data could be biased. The trustworthiness of the data can be increased by incorporating quantitative indications and assessments from an impartial source. This study provides a significant contribution to the area by looking into the impact of various types of diversity on the effectiveness of staff collaboration. However, further research is required to get a comprehensive grasp of the subject and propose answers to the aforementioned issue.

## References

- Alkandi, I. G., Khan, M. A., Fallatah, M., Alabdulhadi, A., Alanizan, S., & Alharbi, J. (2023). The Impact of Incentive and Reward Systems on Employee Performance in the Saudi Primary, Secondary, and Tertiary Industrial Sectors: A Mediating Influence of Employee Job Satisfaction. *Sustainability*, 15(4), 3415.
- Alqatan, D. A. (2019). The association between board diversity, earnings management and firm performance in Kuwait: A research agenda. *Corporate Governance: Search for the Advanced Practices*, 2019.
- Alrowwad, A. A., Abualoush, S. H., & Masa'deh, R. E. (2020). Innovation and intellectual capital as intermediary variables among transformational leadership, transactional leadership, and organizational performance. *Journal of Management Development*, 39(2), 196-222.
- Alserhan, B. A., Forstenlechner, I., & Al-Nakeeb, A. (2010). Employees' attitudes towards diversity in a nonwestern

- context. *Employee Relations Journal*, 32(1), 23-27.
- Andoh, J. S., Ghansah, B., Okogun-Odompley, J. N., & Benuwa, B. B. (2019). Impact of Workplace Diversity on Employee Performance: A Case of Some Selected Private Universities in Ghana. *International Journal of R&D Innovation Strategy (IJRDIS)*, 1(2), 31-43.
- Anglim, J., Sojo, V., Ashford, L. J., Newman, A., & Marty, A. (2019). Predicting employee attitudes to workplace diversity from personality, values, and cognitive ability. *Journal of Research in Personality*, 83, 103865.
- Arundel, A., Bloch, C., & Ferguson, B. (2019). Advancing innovation in the public sector: Aligning innovation measurement with policy goals. *Research policy*, 48(3), 789-798.
- Barak, M. E. M. (2022). *Managing diversity: Toward a globally inclusive workplace*. Sage Publications.
- Basavaraj, S., & Bala, A. (2022). Exploring the consequences of ethical leadership on CSR: a study on the Indian manufacturing industry. *International Journal of Management Practice*, 15(6), 293-730.
- Byrne, B., Alexander, C., Khan, O., Nazroo, J., & Shankley, W. (2020). *Ethnicity, Race and Inequality in the UK: State of the Nation* (p. 316). Policy press.
- Campbell, J. (2023). Identifying Select Diversity Best Practices in the United States Workplace: A review of key success factors in workplace diversity practices that can prevent diversity crises in organizations.
- Celikdemir, D. Z., & Katrinli, A. (2020). Efficient diversity management for workplace well-being. *The Palgrave Handbook of Workplace Well-Being*, 1-22.
- Chen, X., Zhu, L., Liu, C., Chen, C., Liu, J., & Huo, D. (2021). Workplace diversity in the Asia-Pacific region: A review of literature and directions for future research. *Asia Pacific Journal of Management*.
- Chopra, A., Sahoo, C. K., & Patel, G. (2024). Exploring the relationship between employer branding and talent retention: the mediation effect of employee engagement. *International Journal of Organizational Analysis*, 32(4), 702-720.
- Clark, A. E., D'ambrosio, C., & Zhu, R. (2021). Job quality and workplace gender diversity in Europe. *Journal of Economic Behavior & Organization*, 183, 420-432.
- Clohessy, T., & Acton, T. (2019). Investigating the influence of organizational factors on blockchain adoption: An innovation theory perspective. *Industrial Management & Data Systems*, 119(7), 1457-1491.
- Cox, T. H., & Blake, S. (1991). Managing cultural diversity: Implications for organizational competitiveness. *Academy of Management Perspectives*, 5(3), 45-56.
- Cox, T. H., & Blake, S. (1991). Managing cultural diversity: Implications for organizational competitiveness. *Academy of Management Perspectives*, 5(3), 45-56. <https://doi.org/10.5465/ame.1991.4274465>
- Creary, S. J., Rothbard, N., & Scruggs, J. (2021). Improving workplace culture through evidence-based diversity, equity and inclusion practices.
- Dahiya, R., & Rangnekar, S. (2020). Harnessing demographical differences in life satisfaction: Indian manufacturing sector. *International Journal of Business Excellence*, 22(2), 247-261.
- Dahlin, K., Weingart, L., & Hinds, P. (2005). Team diversity and information use. *The Academy of Management Journal*, 48(6), 1107-1123.
- Dalal, R., & Akdere, M. (2023). Examining the relationship between talent management and employee job-related outcomes: The case of the Indian manufacturing industry. *Human Resource Development Quarterly*, 34(2), 201-226.
- Emerson, E., Fortune, N., Aitken, Z., Hatton, C., Stancliffe, R., & Llewellyn, G. (2020). The wellbeing of working-age adults with and without disability in the UK: associations with age, gender, ethnicity, partnership status, educational attainment and employment status. *Disability and health journal*, 13(3), 100889.
- Ernst & Young. (2019). Electronics industry in India: Opportunities to transform. Retrieved from [https://www.ey.com/en\\_in](https://www.ey.com/en_in)
- Evan, R. J., Sisco, S., Fashant, C. S., Nandyal, N., & Robbins, S. (2023). White DEI professionals' perception of their contribution to advancing workplace diversity, equity and inclusion: leveraging and decentering whiteness. *Equality, Diversity and Inclusion: An International Journal*.
- Fine, C., Sojo, V., & Lawford-Smith, H. (2020). Why does workplace gender diversity matter? Justice, organizational benefits, and policy. *Social Issues and Policy Review*, 14(1), 36-72.
- Flory, J. A., Leibbrandt, A., Rott, C., & Stoddard, O. (2021). Increasing workplace diversity evidence from a recruiting experiment at a Fortune 500 company. *Journal of Human Resources*, 56(1), 73-92.
- Frazer, A., Frazer, G., & Frazer, B. N. (2021). *Equity in the New Workplace: The Role of Diversity, Equality, and Inclusion*.



- Equality, and Inclusion (June 10, 2021).
- Garg, N. (2017). Workplace spirituality and employee well-being: An empirical exploration. *Journal of Human Values*, 23(2), 129-147.
- Goldberg, S. R., Kessler, L. L., & Govern, M. (2019). Fostering diversity and inclusion in the accounting workplace. *The CPA Journal*, 89(12), 50-57.
- Gomez, L. E., & Berner, P. (2019). Diversity improves performance and outcomes. *Journal of the National Medical Association*, 111(4), 383-392.
- Goswami, S., & Goswami, B. K. (2018). Exploring the relationship between workforce diversity, inclusion and employee engagement. *Drishtikon: A Management Journal*, 9(1), 65-89.
- Gross-Golacka, E., Kupczyk, T., & Wiktorowicz, J. (2022). Towards a Better Workplace Environment—Empirical Measurement to Manage Diversity in the Workplace. *International Journal of Environmental Research and Public Health*, 19(23), 15851.
- Haefner, N., Wincent, J., Parida, V., & Gassmann, O. (2021). Artificial intelligence and innovation management: A review, framework, and research agenda☆. *Technological Forecasting and Social Change*, 162, 120392.
- Hauret, L., & Williams, D. R. (2020). Workplace diversity and job satisfaction. *Equality, Diversity and Inclusion: An International Journal*, 39(4), 419-446.
- Hawi, R., Hashem, T., & Alkhodary, D. (2015). The Relationship between Transformational Leadership and Organizational Performance in Jordan Universities from Middle Managers Perspective. *International Journal of Management & Business Studies*, 5(4), 39-46.
- Herbert, J., Ferri, L., Hernandez, B., Zamarripa, I., Hofer, K., Fazeli, M. S., ... & Abdallah, K. (2023). Personality diversity in the workplace: A systematic literature review on introversion. *Journal of Workplace Behavioral Health*, 38(2), 165-187.
- Hofstede, G. (2001). *Culture's consequences: Comparing values, behaviors, institutions, and organizations across nations*. Sage Publications.
- Hofstede, G. (2001). *Culture's consequences: Comparing values, behaviors, institutions, and organizations across nations*. Sage Publications.
- Hossain, M., Atif, M., Ahmed, A., & Mia, L. (2020). Do LGBT workplace diversity policies create value for firms?. *Journal of Business Ethics*, 167, 775-791.
- Jackson, S. E., Joshi, A., & Erhardt, N. L. (2003). Recent research on team and organizational diversity: SWOT analysis and implications. *Journal of Management*, 29(6), 801-830. [https://doi.org/10.1016/S0149-2063\(03\)00080-1](https://doi.org/10.1016/S0149-2063(03)00080-1)
- Jaiswal, A., & Dyaram, L. (2019). Towards well-being: role of diversity and nature of work. *Employee Relations*, 41(1), 158-175.
- Jaiswal, A., & Dyaram, L. (2020). Perceived diversity and employee well-being: mediating role of inclusion. *Personnel Review*, 49(5), 1121-1139.
- Javaid, M., Haleem, A., Singh, R. P., Rab, S., Suman, R., & Khan, S. (2022). Exploring relationships between Lean 4.0 and manufacturing industry. *Industrial Robot: the international journal of robotics research and application*, 49(3), 402-414.
- Jehn, K. A. (1995). A multimethod examination of the benefits and detriments of intragroup conflict. *Administrative Science Quarterly*, 40(2), 256-282.
- Jehn, K. A. (1995). A multimethod examination of the benefits and detriments of intragroup conflict. *Administrative Science Quarterly*, 40(2), 256-282. <https://doi.org/10.2307/2393638>
- Jehn, K. A., Northcraft, G. B., & Neale, M. A. (1999). Why differences make a difference: A field study of diversity, conflict and performance in workgroups. *Administrative Science Quarterly*, 44(4), 741-763. <https://doi.org/10.2307/2667054>
- Johari, S., & Jha, K. N. (2021). Exploring the relationship between construction workers' communication skills and their productivity. *Journal of Management in Engineering*, 37(3), 04021009.
- Kaur, R., Pingle, S., & Jaiswal, A. K. (2024). Effect of organisational culture on employer branding and resultant employee brand equity in the private banking sector. *International Journal of Bank Marketing*, 42(2), 258-300.
- Kochan, T., Bezrukova, K., Ely, R., Jackson, S., Joshi, A., Jehn, K., ... & Thomas, D. (2003). The effects of diversity on business performance: Report of the diversity research network. *Human Resource Management*, 42(1), 3-21. <https://doi.org/10.1002/hrm.10061>
- KPMG. (2018). Diversity and inclusion in the Indian automotive industry. Retrieved from

- <https://home.kpmg/in/en/home/insights/2018/11/diversity-and-inclusion-in-the-indian-automotive-industry.html>
- Kuknor, S., & Bhattacharya, S. (2021). Exploring organizational inclusion and inclusive leadership in Indian companies. *European Business Review*, 33(3), 450-464.
- Kumar, N., & Gupta, N. (2023). Impact of workplace diversity on organizational performance through the mediating role of creative synergy. *Dinkum Journal of Economics and Managerial Innovations*, 2(05), 293-304.
- Kumar, R., Singh, H., & Chandel, R. (2018). Exploring the key success factors of advanced manufacturing technology implementation in Indian manufacturing industry. *Journal of Manufacturing Technology Management*, 29(1), 25-40.
- Kundu, S. C., & Mor, A. (2017). Workforce diversity and organizational performance: a study of IT industry in India. *Employee Relations*, 39(2), 160-183.
- Lauring, J., & Selmer, J. (2011). Multicultural organizations: Common language and group cohesiveness. *International Journal of Cross-Cultural Management*, 11(3), 267-284.
- Lauring, J., & Selmer, J. (2011). Multicultural organizations: Common language and group cohesiveness. *International Journal of Cross-Cultural Management*, 11(3), 267-284. <https://doi.org/10.1177/1470595811399194>
- Mannix, E. A., Thatcher, S. M. B., & Jehn, K. A. (2001). The dynamic nature of conflict: A longitudinal study of intragroup conflict and group performance. *Academy of Management Journal*, 44(2), 238-251.
- Mannix, E. A., Thatcher, S. M. B., & Jehn, K. A. (2001). The dynamic nature of conflict: A longitudinal study of intragroup conflict and group performance. *Academy of Management Journal*, 44(2), 238-251. <https://doi.org/10.2307/3069453>
- Mazibuko, J. V., & Govender, K. K. (2017). Exploring workplace diversity and organisational effectiveness: A South African exploratory case study. *SA Journal of Human Resource Management*, 15, 10.
- McKinsey & Company. (2014). India Pharma 2020: Propelling access and acceptance, realizing true potential. Retrieved from <https://www.mckinsey.com/industries/pharmaceuticals-and-medical-products/our-insights/india-pharma-2020>
- McLeod, P. L., Lobel, S. A., & Cox, T. H. (1996). Ethnic diversity and creativity in small groups. *Small Group Research*, 27(2), 248-264.
- McLeod, P. L., Lobel, S. A., & Cox, T. H. (1996). Ethnic diversity and creativity in small groups. *Small Group Research*, 27(2), 248-264. <https://doi.org/10.1177/1046496496272003>
- Morgan, J. (2015). Why the future of work is all about the employee experience. *Forbes*. Retrieved from <https://www.forbes.com/sites/jacobmorgan/2015/05/27/why-the-future-of-work-is-all-about-the-employee-experience/#2de759806f0a>
- Mousa, M., Massoud, H. K., & Ayoubi, R. M. (2020). Gender, diversity management perceptions, workplace happiness and organisational citizenship behaviour. *Employee Relations: The International Journal*, 42(6), 1249-1269.
- Pathomphatthaphan, S., Das, S., & Jena, L. K. (2024). Agile SHRM practices and employee-organisational outcomes during new normal: evidence from India and Thailand. *Journal of Organizational Effectiveness: People and Performance*, 11(2), 347-374.
- Pelled, L. H. (1996). Demographic diversity, conflict, and work group outcomes: An intervening process theory. *Organization Science*, 7(6), 615-631.
- Pelled, L. H. (1996). Demographic diversity, conflict, and work group outcomes: An intervening process theory. *Organization Science*, 7(6), 615-631. <https://doi.org/10.1287/orsc.7.6.615>
- Pinder, C. C. (2014). *Work motivation in organizational behavior*. New York: Psychology Press.
- Pitts, D. W., Hicklin, A. K., Hawes, D. P., & Melton, E. (2010). What drives the implementation of diversity management programs? Evidence from public organizations. *Journal of Public Administration Research & Theory*, 20(4), 867-886.
- Porcena, Y. R., Parboteeah, K. P., & Mero, N. P. (2020). Diversity and firm performance: role of corporate ethics. *Management Decision*.
- Raina, R. (2016). Exploring the correlation between the efficacy of intra-level communication and organizational effectiveness in relation to Indian automotive sector. *Abhigyan*, 34(1), 1-16.
- Rana, S., & Singh, S. (2022). Performance appraisal justice and affective commitment: examining the moderating role of age and gender. *International Journal of Organizational Analysis*, 30(1), 24-46.
- Ranta, M., & Ylinen, M. (2023). Board gender diversity and workplace diversity: a machine learning approach. *Corporate*

Governance: The International Journal of Business in Society.

- Richard, O. C., Barnett, T., Dwyer, S., & Chadwick, K. (2004). Cultural diversity in management, firm performance, and the moderating role of entrepreneurial orientation dimensions. *Academy of Management Journal*, 47(2), 255-266.
- Richard, O. C., Barnett, T., Dwyer, S., & Chadwick, K. (2004). Cultural diversity in management, firm performance, and the moderating role of entrepreneurial orientation dimensions. *Academy of Management Journal*, 47(2), 255-266. <https://doi.org/10.2307/20159576>
- Ruiz, M. V., González, M. B. A., Cano, J. M. N., Soto, A. T., Pruaño, A. P., & Hernández, M. L. G. (2021). Generational diversity among teachers in the workplace: Implications for teacher relationships, identity and development. *Journal of Intercultural Management*, 13(2), 59-80.
- Sayers, J. (2012). *Managing diversity*. Retrieved October 4, 2016, from <http://www.bookboon.com/en/managing-diversity-ebook>
- Sekaran, U. (2003). *Research methods for business: A skill building approach* (4th ed.). New York: John Wiley & Sons Inc.
- Selin, J. (2022). More than Just a Workplace: A Case Study of Diversity, Equity, and Inclusion in Marriott International Inc. Hotels.
- Seth, H., Chadha, S., Sharma, S. K., & Ruparel, N. (2021). Exploring predictors of working capital management efficiency and their influence on firm performance: An integrated DEA-SEM approach. *Benchmarking: An International Journal*, 28(4), 1120-1145.
- Sharmaa, N., & Singh, R. K. (2021). Workplace spirituality and organizational effectiveness: exploration of relationship and moderators. *Journal of Management, Spirituality & Religion*, 18(1), 15-34.
- Singh, A., & Banerji, R. (2022). Happiness at work, organization citizenship behaviour and workplace diversity: a study on Indian private sector bank employees. *Industrial and Commercial Training*, 54(3), 460-475.
- Singh, V., & Vinnicombe, S. (2004). Why so few women directors in top UK boardrooms? Evidence and theoretical explanations. *Corporate Governance: An International Review*, 12(4), 479-488.
- Suganthi, L. (2019). Examining the relationship between corporate social responsibility, performance, employees' pro-environmental behavior at work with green practices as mediator. *Journal of cleaner production*, 232, 739-750.
- Tanwar, K. (2016). The effect of employer brand dimensions on organisational commitment: Evidence from Indian IT industry. *Asia-Pacific Journal of Management Research and Innovation*, 12(3-4), 282-290.
- Tanwar, K., & Prasad, A. (2016). Exploring the relationship between employer branding and employee retention. *Global business review*, 17(3\_suppl), 186S-206S.
- Tewari, M. (2006). Adjustment in India's textile and apparel industry: Reworking historical legacies in a post-MFA world. *Environment and Planning A*, 38(12), 2325-2344. <https://doi.org/10.1068/a38352>
- Triandis, H. C., Kurowski, L. L., & Gelfand, M. J. (1994). Workplace diversity. In Dunnette, M. D., & Hough, L. M. (Eds.), *Handbook of industrial and organizational psychology* (Vol. 4, pp. 769-827).
- Triandis, H. C., Kurowski, L. L., & Gelfand, M. J. (1994). Workplace diversity. In Dunnette, M. D., & Hough, L. M. (Eds.), *Handbook of industrial and organizational psychology* (Vol. 4, pp. 769-827). Consulting Psychologists Press.
- Vairavan, A., & Zhang, G. P. (2020). Does a diverse board matter? A mediation analysis of board racial diversity and firm performance. *Corporate Governance: The International Journal of Business in Society*.
- Van Knippenberg, D., De Dreu, C. K. W., & Homan, A. C. (2004). Work group diversity and group performance: An integrative model and research agenda. *Journal of Applied Psychology*, 89(6), 1008-1022. <https://doi.org/10.1037/0021-9010.89.6.1008>
- Wang, M., & Fang, Y. (2020). Age diversity in the workplace: Facilitating opportunities with organizational practices. *Public Policy & Aging Report*, 30(3), 119-123.
- Watson, W., Kumar, K., & Michaelsen, L. (1993). Cultural diversity's impact on interaction process and performance: Comparing homogenous and diverse task groups. *Academy of Management Journal*, 36, 590-602.
- Webber, S. S., & Donahue, L. M. (2001). Impact of highly and less job-related diversity on work group cohesion and performance: A meta-analysis. *Journal of Management*, 27(2), 141-162.
- Zhang, L. (2020). An institutional approach to gender diversity and firm performance. *Organization Science*, 31(2), 439-457.
- Zhang, Y., Khan, U., Lee, S., & Salik, M. (2019). The influence of management innovation and technological innovation on organization performance: A mediating role of sustainability. *Sustainability*, 11(2), 495.

Zhuwao, S. (2017). Workforce diversity and its effects on employee performance in higher education institution in South Africa: A case study of University of Venda. *Journal of Business and Management*, 19(5), 1-10.