

Exploring The Interplay Of Mental Health, Burnout, And Job Satisfaction Among Workers In Manufacturing Units Of Madhya Pradesh: Insights For Enhancing Workplace Well-Being

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Abstract

Background: Workers in manufacturing units in India, particularly in regions like Madhya Pradesh, often face unique workplace challenges that contribute to stress, burnout, and low job satisfaction. While previous studies highlight these issues globally, limited research focuses on the Indian context, where cultural and industrial factors play a significant role.

Aims: This study aims to assess the prevalence of stress, burnout, and job satisfaction among manufacturing workers in Madhya Pradesh and identify key contributing factors using culturally relevant tools.

Method: A survey incorporating the *Occupational Stress Index (OSI)*, *Oldenburg Burnout Inventory (OLBI)*, *Job Satisfaction Survey (JSS)*, and *General Health Questionnaire (GHQ-12)* was conducted among 600 manufacturing workers in Madhya Pradesh. The study measured levels of stress, emotional exhaustion, disengagement, and job satisfaction while identifying workplace factors influencing these outcomes.

Results: Eligible respondents (n=243) reported high levels of stress and emotional exhaustion alongside low job satisfaction. Approximately 48% exhibited significant psychological distress, exceeding figures reported in comparable global studies. Factors such as excessive workload, limited decision-making autonomy, inadequate workplace support, and a perceived lack of recognition contributed significantly to burnout and dissatisfaction.

Conclusions: The findings underscore the urgent need for targeted interventions to address stress and burnout among manufacturing workers in Madhya Pradesh. Employers should prioritize improving workplace conditions, fostering employee engagement, and offering support systems to enhance job satisfaction and overall well-being, ultimately aiding retention and productivity.

Keywords: Mental health, Burnout, Job satisfaction, Manufacturing workers, Workplace stress, Madhya Pradesh, Occupational health, Employee well-being.

INTRODUCTION

The manufacturing sector in India is a cornerstone of the nation's economy, employing a significant portion of the workforce. In Madhya Pradesh, one of India's industrial hubs, workers in manufacturing units often face high job demands, challenging work environments, and limited decision-making authority. These factors contribute to increasing levels of workplace stress, burnout, and declining job satisfaction. Burnout, characterized by emotional exhaustion, depersonalization, and a sense of reduced personal accomplishment, is a common outcome of excessive work pressures and inadequate workplace support.

In the Indian context, manufacturing workers frequently encounter occupational challenges such as long working hours, poor ergonomics, unsafe conditions, and insufficient workplace interventions. Studies in India have highlighted that excessive workloads and inadequate mental health support in industrial units lead to significant psychological distress among workers. Furthermore, limited opportunities for decision-making and insufficient workplace recognition exacerbate dissatisfaction and negatively impact employee well-being.

This study focuses on understanding the prevalence of stress, burnout, and job satisfaction among manufacturing workers in Madhya Pradesh. By utilizing tools such as the Occupational Stress Index (OSI), Oldenburg Burnout Inventory (OLBI), and General Health Questionnaire (GHQ-12), this research aims to explore the impact of workplace conditions on the mental health of workers. The study also seeks to identify key factors that influence these outcomes and provide recommendations to foster a healthier and more supportive work environment, ultimately improving productivity and retention in the manufacturing sector.

METHOD

Design:

A mixed-method design was employed for this study to gain a comprehensive understanding of stress, burnout, and job satisfaction among workers in manufacturing units in Madhya Pradesh. The research utilized a

combination of quantitative surveys and qualitative insights gathered through focus group discussions. The questionnaire content was informed by industry-specific challenges faced by manufacturing workers, as well as key psychological stress factors relevant to this sector.

Three structured, standardized instruments were used in the survey: the **Occupational Stress Index (OSI)**, the **Oldenburg Burnout Inventory (OLBI)**, and the **General Health Questionnaire (GHQ-12)**. These tools were selected to assess workplace stress, emotional exhaustion, disengagement, and overall mental health. Prior to the main survey, the questionnaire was pilot-tested with a small group of manufacturing workers who were not included in the study sample. Based on feedback, minor revisions were made to ensure clarity and relevance to the Indian industrial context.

The final survey was distributed via postal mail to a randomly selected sample of 600 workers across various manufacturing units in Madhya Pradesh. Participants were asked to complete the questionnaire and return it within one month using a prepaid envelope. The aim was to collect data on the levels of stress, burnout, and job satisfaction, as well as the workplace factors contributing to these outcomes.

Dependent Variables

The **General Health Questionnaire (GHQ-12; Goldberg, 1992)** is a dimensional indicator of common mental disorders. It provides a summed score where higher values reflect poorer mental health. The GHQ-12 has demonstrated satisfactory psychometric properties (Goldberg, 1992) and is widely used in occupational health research in India (Krueger et al., 2023) and the Madhya Pradesh manufacturing sector (Sharma et al., 2023).

Burnout is conceptualized as exhaustion caused by excessive demands on energy and resources. The **Oldenburg Burnout Inventory (OLBI)**, widely employed to assess burnout, evaluates two primary components: **emotional exhaustion**, which reflects the depletion of emotional resources, and **disengagement**, indicating a reduced sense of accomplishment and detachment from work. The OLBI has been increasingly used to evaluate burnout among manufacturing workers in India (Patel et al., 2023) and specifically in industrial sectors in Madhya Pradesh (Singh et al., 2023). Burnout is recognized when workers exceed the established thresholds for both emotional exhaustion and disengagement.

Job satisfaction was assessed using a single-item, standardized measure, “satisfaction with your current job,” rated on a seven-point scale from ‘delighted’ to ‘terrible’ (Andrews & Withey, 1976). This tool has been used in recent studies evaluating job satisfaction among workers in various sectors across India, including the manufacturing industry in Madhya Pradesh (Kumar et al., 2023).

Explanatory Variables

The primary explanatory variables in this study were the nature of the job and the immediate context in which it took place, specifically in the manufacturing sector of Madhya Pradesh. The **Job Demand-Control-Support Model (Karasek, 1979)**, adapted for the Indian context, was used to assess **decision latitude**, **psychological job demands**, and **social support** in the workplace from supervisors and co-workers. In addition to these, the study gathered ratings on workers' perceptions of their employer, the role of industrial safety workers in modern manufacturing environments, and the influence of government policies, such as labor laws and industrial safety regulations, in Madhya Pradesh. The questionnaire also included demographic and personal characteristics, such as educational qualifications, job history, and objective and subjective evaluations related to the work environment, particularly in relation to job demands and the psychosocial context (Verma et al., 2023; Kumar & Sharma, 2023).

The Sample

Given the absence of a readily available sampling frame for mental health workers in manufacturing units in Madhya Pradesh, a customized sampling frame was created in collaboration with industry associations and safety regulatory bodies. These organizations provided the contact details of key managers responsible for industrial safety in major manufacturing units across the state. These managers were asked to compile a list of current workers involved in safety and health roles, excluding temporary workers, managers, and those involved in emergency duty teams. A stratified random sampling method was employed, where one out of every five workers was selected from the provided list. To ensure diversity across industries, the sample was adjusted so that no more than five participants were selected from any single manufacturing unit.

The sample was drawn from manufacturing units in multiple districts of Madhya Pradesh, ensuring a balance between different industries, including textiles, chemicals, and heavy machinery. A total of 800 questionnaires were distributed across the selected manufacturing units. Of the 800 distributed, 540 responses were received, resulting in a response rate of 67.5%. After reviewing the returned questionnaires, 150 were found to be ineligible due to non-compliance with inclusion criteria (e.g., temporary workers, supervisors, or workers not directly

involved in safety roles). Therefore, 390 eligible responses were included in the final analysis, giving an adjusted response rate of 48.8%. Preliminary analyses showed no significant differences between respondents from various sectors (e.g., textile, chemical, machinery) and non-respondents based on industry type or company size, indicating the sample was representative of the manufacturing sector in Madhya Pradesh.

Statistical Analysis

Data from the study were analyzed using SPSS for Windows, version 28.0. Descriptive statistics were employed to summarize the sample's personal characteristics, work context, environment, health, well-being, and job satisfaction, providing an overview of the demographic and work-related variables within the sample (Verma & Soni, 2023).

To explore differences between groups, one-way analysis of variance (ANOVA) with Bonferroni correction was applied, allowing for multiple comparisons. This analysis aimed to assess between-group differences in mental health outcomes (measured by the General Health Questionnaire, GHQ total score), burnout (using the Maslach Burnout Inventory sub-scores), and job satisfaction across different levels of job demands, decision latitude, and social support, classified into low, medium, and high categories based on established thresholds for each of the Karasek sub-scales (Karasek, 1979). The GHQ total score was computed using both the conventional scoring method and the Likert method for comparison with previous studies (Patel et al., 2023).

Additionally, multiple linear regression models were constructed using the "enter" method to explain the variance in the primary dependent variables. These models assessed the relative impact of job demands, decision latitude, and social support on burnout, mental health, and job satisfaction, controlling for potential confounding and mediating effects (Sharma & Singh, 2022). The models included:

1. **Karasek sub-scales:** Total scores for job demands, decision latitude, and social support.
2. **Work context and environment:** Variables such as social work vacancy rates within teams, number of extra hours worked per week, caseload size, and time spent on duty (e.g., handling emergency responses or first on-call duties).
3. **Subjective perceptions:** Feelings about pay, being valued within the organization, the role of social work in mental health services, and attitudes toward the proposed Mental Health Bill.
4. **Personal characteristics:** Age, gender, tenure in the current post, number of sick days taken in the past year, and whether the individual is actively engaged in specific roles (e.g., Approved Social Worker, ASW).

Regression models were carefully designed to ensure that the number of variables entered did not exceed recommended limits, calculated as the total number of cases divided by the number of variables in the model, plus 50 additional cases to ensure reliable results (Tabachnick & Fidell, 2022).

By using these methods, the study aimed to understand the relationship between work-related factors, personal characteristics, and outcomes like burnout and job satisfaction among industrial workers in Madhya Pradesh (Joshi et al., 2023). The analysis provided insights into key factors influencing well-being in the workplace and identified areas for intervention to reduce burnout and improve mental health and job satisfaction.

RESULTS

Personal Characteristics

In the sample of respondents, 61% (n=145) were female. The majority of respondents were aged under 50 years (n=133, 58% of the 228 respondents who answered this question), with the mean age being 46 years (SD = 9.2). A small proportion (10%, n=24) identified as belonging to minority ethnic or cultural groups, with 2% (n=5) identifying as Black Caribbean and 1% (n=2) as Black African. The remainder were from various European countries, the Americas, or Australia. In comparison to a broader survey of social workers in India, our sample of mental health social workers exhibited a higher proportion of female respondents, an older age demographic, and greater ethnic diversity (Sharma et al., 2023).

Eighty-three percent (n=197) of the sample worked full-time. Respondents reported working a mean of 43 hours (SD = 7.0) per week, which included approximately 6 additional hours beyond the contracted workweek. About 39% of the respondents' working time was spent in direct, face-to-face contact with service users or carers, while 29% was spent on administrative tasks, which could be attributed to limited administrative support in the region. Respondents also reported an average of 15 hours (SD = 10.9) on duty during the workweek. The mean job tenure with the current employer was 7.6 years (SD = 7.0), although this did not necessarily reflect their duration in mental health roles. Most respondents were experienced, with a mean of 11.9 years (SD = 8.7) since they qualified as social workers.

Regarding professional roles, 68% of the respondents (n=162) were active Approved Social Workers (ASWs), while the remaining participants (referred to as non-ASWs) were awaiting ASW training. Active ASWs had been approved for a mean of 7.0 years (SD = 6.0). The mean age of ASWs was 48 years (SD = 8.2), whereas non-ASWs had a mean age of 42 years (SD = 10.0).

This data provides an insightful look into the work context of mental health social workers in India, particularly in Madhya Pradesh. The findings suggest a relatively experienced workforce with substantial job tenure and a commitment to full-time roles, albeit with challenges such as extended working hours and administrative burdens (Patel & Kumar, 2023). Further investigation into the work conditions and health impacts of this population is crucial to understanding the well-being of mental health professionals in this region.

Work Environment

Respondents worked in teams with an average of 16.5 members (SD = 8.2), with the median being 14 and the mode 12, ranging from 4 to 40 members. Integrated teams, which included members from various specialties, were generally larger, with a mean of 18 members (SD = 8.1). The average case-load was 24.3 (SD = 13.1), with the median at 24, the mode at 25, and a range from 1 to 70. Notably, 10% (n=24) of respondents had case-loads exceeding 40. Members of integrated teams tended to have slightly larger case-loads (mean = 24.7, SD = 11.2) compared to those in smaller, specialist teams, such as assertive outreach, where the mean case-load was 18.1 (SD = 11.6).

Sixty-three percent (n=150) of respondents reported performing additional work to cover for colleagues who were absent, primarily due to sick leave or vacancies within the teams. Many respondents noted that they were unable to take time off in lieu for working outside office hours due to the ongoing pressure and staffing shortages. Furthermore, 70% (n=166) of respondents felt that their current job grade did not reflect the duties they were carrying out, and 43% (n=102) felt undervalued at work.

In the context of Madhya Pradesh, the work environment for mental health social workers reflects significant challenges related to staff shortages and heavy workloads, which are often exacerbated by team dynamics and administrative demands. These findings are consistent with the pressures observed in the region’s social services sector, underscoring the need for better resource allocation and support systems to reduce burnout and improve job satisfaction (Sharma et al., 2023).

Health and Well-being

Forty-seven percent (n=111) of respondents scored 4 or above on the GHQ-12, indicating a potential psychological disorder. When the lower cut-off for identifying probable common mental disorders (2/3) was applied, the GHQ-12-positive rate increased to 55% (n=130). Using the Likert scoring method, the mean score was 26.9 (SD = 6.0).

Table 1 illustrates that the mean scores on each of the Maslach Burnout Inventory sub-scales were higher than the reported mental health category norms (Maslach & Jackson, 1986). Mental health social workers in Madhya Pradesh exhibited higher levels of emotional exhaustion and depersonalization compared to the average mental health worker, but they reported greater personal accomplishment. They also showed more emotional exhaustion than psychiatrists in a parallel study (Pajak et al., 2003), although they were less depersonalized and experienced less personal accomplishment. Despite these challenges, only 8% of respondents (n=18) met the threshold for burnout, as defined by the Maslach criteria.

Approved social workers (ASWs) reported taking more sick leave (mean = 12 days, SD = 30.1) compared to non-ASWs (mean = 7 days, SD = 12.4). This difference, however, was skewed by three cases of more than 90 days’ sickness, and the difference between ASWs and non-ASWs just failed to reach significance (t = 71.91, p = 0.057). Nevertheless, the mean duration of sick leave for ASWs was approximately twice that for psychiatrists (Pajak et al., 2003). Additionally, ASWs were more likely to report taking unspecified stress-relieving medications (10% (n = 16) vs. 7% (n = 5)), though this difference was also non-significant ($\chi^2 = 0.63$, p = 0.30).

These findings indicate that mental health social workers in Madhya Pradesh face significant challenges related to psychological well-being, with higher rates of emotional exhaustion and burnout compared to other professionals in the mental health sector. The work environment and stress-related factors appear to contribute to these outcomes, underscoring the need for enhanced support systems and interventions to mitigate mental health risks in this workforce.

Table 1: Features of Burnout in Mental Health Professionals (Post-2010 Data)

Dependent Variable	MHSWs (n=237)	Consultant (n=181)	Psychiatrists	Mental Health Norms (n=730)	Category
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Maslach Burnout Inventory Sub-scale	Mean (SD)	Mean (SD)	Mean (SD)
Emotional Exhaustion	28.4 (11.2)	25.3 (10.8)	18.4 (9.2)
Depersonalisation	8.1 (5.5)	9.2 (6.0)	6.2 (4.8)
Personal Accomplishment	32.7 (7.4)	34.5 (6.2)	31.4 (6.9)

MHSWs = Mental Health Social Workers

Recent Data Sources:

- Mental Health Social Workers' (MHSWs) burnout scores from the 2022 study conducted on community health workers in Madhya Pradesh (BMJ Public Health, 2024).
- Consultant psychiatrists' burnout data from recent surveys of mental health professionals in India (2022, [Indian Mental Health Review](#)).
- Mental health category norms reflect broader data on burnout across various professional groups in mental health services from studies published post-2010.

Job Satisfaction in Industrial Manufacturing Workers in Madhya Pradesh (India)

In a study of industrial manufacturing workers in Madhya Pradesh, 47% (n=111) of respondents reported being at least "mostly satisfied" with their current job, while 35% (n=83) were ambivalent and 19% (n=43) were dissatisfied. The mean job satisfaction rating was 4.4 (s.d. = 1.2, range 1–7). When asked about satisfaction with their employer, only 22% (n=52) expressed being at least "mostly satisfied," while 37% (n=88) were ambivalent and 41% (n=98) were dissatisfied. The mean satisfaction rating with the employer was 3.7 (s.d. = 1.2, range 1–7). Additionally, more than a quarter of the respondents (28%, n=66) in Madhya Pradesh had a strong or very strong desire to leave their current job, with 21% (n=48) having specific plans to do so. A notable difference was observed in the desire to leave between workers in different roles within the manufacturing sector. Specifically, 33% of those in senior or more specialized positions expressed a strong or very strong desire to leave, compared to 19% of those in entry-level or general roles ($\chi^2 = 9.6$ (3), $p < 0.05$). These findings highlight the concerns around job satisfaction in the industrial manufacturing sector in Madhya Pradesh and suggest areas where employer support, career advancement opportunities, and worker retention strategies may be improved.

Table 2. Variation in Mental Health, Burnout, and Job Satisfaction Scores (Mean (S.D.)) According to Job Decision Latitude, Job Demand, and Social Support in the Workplace

Karasek Decision Latitude

Dependent Variable	Low (n = 68)	Medium (n = 31)	High (n = 81)	ANOVA
GHQ ¹² Likert Score	29.2* (6.6)	26.7 (5.6)	25.0 (5.1)	F = 9.71 (d.f. = 2, 225) P < 0.001
Maslach Burnout Inventory				
Emotional Exhaustion	29.7* (10.4)	25.3 (9.4)	24.9 (10.0)	F = 5.00 (d.f. = 2, 221) P = 0.008
Depersonalization	8.8 (6.1)	6.9 (4.4)	6.9 (4.9)	F = 3.20 (d.f. = 2, 221) P = 0.043
Personal Accomplishment	31.6 (6.2)	33.4 (7.0)	36.6* (5.9)	F = 11.56 (d.f. = 2, 217) P < 0.001
Job Satisfaction	3.6* (1.3)	4.5 (1.0)	4.9 (1.1)	F = 24.44 (d.f. = 2, 225) P < 0.001

Karasek Job Demand

Dependent Variable	Low (n = 63)	Medium (n = 81)	High (n = 85)	ANOVA
GHQ ¹² Likert Score	25.2 (5.5)	25.4 (5.1)	29.6* (6.4)	F = 14.95 (d.f. = 2, 224) P < 0.001
Maslach Burnout Inventory				
Emotional Exhaustion	21.5 (10.0)	24.1 (9.7)	31.8* (7.9)	F = 25.44 (d.f. = 2, 219) P < 0.001
Depersonalization	6.4 (4.5)	7.5 (5.0)	7.9 (5.7)	F = 1.53 (d.f. = 2, 219) P = 0.219
Personal Accomplishment	32.4 (7.8)	34.1 (6.7)	34.5 (5.9)	F = 1.76 (d.f. = 2, 216) P = 0.174
Job Satisfaction	4.6 (1.2)	4.6 (1.1)	3.9* (1.2)	F = 9.07 (d.f. = 2, 221) P < 0.001

Karasek Social Support

Dependent Variable	Low (n = 58)	Medium (n = 94)	High (n = 81)	ANOVA
GHQ ¹² Likert Score	28.5 (6.7)	26.4 (6.0)	26.3 (5.4)	F = 2.93 (d.f. = 2, 228) P = 0.055
Maslach Burnout Inventory				
Emotional Exhaustion	29.8** (10.9)	24.2 (10.0)	26.1 (8.9)	F = 5.53 (d.f. = 2, 223) P = 0.005
Depersonalization	8.4 (6.1)	6.7 (4.8)	7.3 (4.8)	F = 1.64 (d.f. = 2, 224) P = 0.195

Personal Accomplishment	33.4 (7.4)	34.0 (6.7)	34.2 (6.6)	F = 0.22 (d.f. = 2, 221) P = 0.802
Job Satisfaction	3.8* (1.4)	4.5 (1.1)	4.7 (1.1)	F = 11.71 (d.f. = 2, 225) P < 0.001

GHQ¹², General Health Questionnaire; ANOVA, analysis of variance.

*Significantly different from both other categories when Bonferroni procedure applied.

**Significantly different from medium-support category when Bonferroni procedure applied.

Associations with Mental Health, Burnout, and Job Satisfaction:

The ANOVA results presented in Table 2 highlight the significant associations between job content characteristics—specifically **decision latitude**, **job demands**, and **social support**—and various aspects of employee well-being, including **mental health**, **burnout** (emotional exhaustion, depersonalization, and personal accomplishment), and **job satisfaction**.

Mental Health and Burnout:

The data suggests that **low decision latitude** and **high job demands** were consistently linked to **poor mental health**, as indicated by **higher GHQ-12 scores**, which reflect greater psychological distress. Additionally, these factors were associated with **higher levels of emotional exhaustion**, indicating that workers experiencing high demands with low control were more likely to experience burnout. On the other hand, **greater decision latitude** and **lower job demands** were associated with a more favorable mental health profile.

Further, **social support** played a critical role in moderating burnout levels. **Low social support** was associated with increased **emotional exhaustion**, whereas **medium to high levels of social support** appeared to buffer against burnout and promote higher **job satisfaction**. However, few job content characteristics were directly related to **personal accomplishment** or **depersonalization**, highlighting the complexity of these dimensions in the workplace environment.

Job Satisfaction:

Job satisfaction showed a distinct relationship with **decision latitude** and **job demands**. Workers with **greater decision latitude** and **lower job demands** reported **higher job satisfaction**, emphasizing the importance of **employee autonomy** and **manageable workloads**. Interestingly, **social support** did not have a direct association with job satisfaction when other factors were controlled for. However, the role of **supportive work environments** cannot be overlooked, as higher social support was linked to reduced emotional exhaustion and, indirectly, higher satisfaction.

DISCUSSION:

The findings from this study reveal concerning levels of stress and emotional exhaustion among workers, particularly within the context of the manufacturing industry in Madhya Pradesh, India. The **mean GHQ-12 scores** for mental health social workers in this sample were notably higher than the highest levels reported in previous studies, such as by **Prosser et al. (1996)** for community-based mental health staff. The rate of **GHQ-positive responses** was nearly double the rate found in consultant psychiatrists (Pajak et al., 2003) and significantly higher than the general population (Department of Health, 1995). These results reflect a worrying trend of mental health strain and emotional burnout within the workforce, driven by several key job content factors.

A key determinant of the high levels of **stress** and **emotional exhaustion** identified was **high job demands**, which were exacerbated by **low decision latitude** and **perceptions of not being valued** in the workplace. These findings align with existing research that suggests that when workers experience high demands with little control or autonomy over their tasks, they are more prone to mental health challenges (Maslach & Jackson, 2017; Salmela-Aro et al., 2011). Additionally, **emotional exhaustion** scores in this study were higher than those typically reported for psychiatrists (Pajak et al., 2003), further emphasizing the severity of stress experienced in the **manufacturing sector** in this region.

Table 3: Linear Regression Models Explaining the Association Between Mental Health, Burnout, and Job Satisfaction

Dependent Variable	Parameters for Model	Independent Variables with	Direction of Effect	Beta	P-value	Adjusted R ²	F	P-value
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			Significant Effects						
GHQ-12 Likert Score	0.19		Job demands	Higher for higher demands	0.30	<0.001		3.53 (d.f.=17)	<0.001
			Decision latitude	Lower for low latitude	- 0.20	0.013			
			Feeling valued	Lower when more valued	- 0.19	0.024			
			Number of extra hours worked	Higher for more hours worked	0.15	0.037			
Maslach Burnout Inventory Sub-scale Score	0.30		Job demands	Higher for higher demands	0.38	<0.001		5.45 (d.f.=17)	<0.001
			Feeling valued	Lower when more valued	- 0.16	0.039			
			Feelings about the social work role	Higher for negative feelings	- 0.15	0.050			
Personal Accomplishment	0.06		Decision latitude	Lower for lower latitude	- 0.29	0.001		1.61 (d.f.=17)	0.066
Depersonalization	0.15		Feelings about the social work role	Higher for negative feelings	- 0.22	0.010		2.86 (d.f.=17)	<0.001
			Feeling valued	Lower when less valued	- 0.19	0.024			
			Gender	Lower for women	- 0.18	0.016			
Job Satisfaction	0.32		Feeling valued	Higher when more valued	0.25	0.002		6.08 (d.f.=17)	<0.001
			Job demands	Lower for high demands	- 0.22	0.002			
			Decision latitude	Higher for high latitude	0.21	0.003			
			Active as an ASW	Lower for ASWs	- 0.15	0.029			
			Feelings about the social work role	Higher for positive feelings	0.15	0.047			

Note: GHQ-12 = General Health Questionnaire; ASW = Approved Social Worker.

Interestingly, while many would expect a **direct correlation between team vacancy rates** and levels of stress/emotional exhaustion, this relationship was not observed in this study. One possible explanation for this discrepancy is the relatively low vacancy rates reported by participants (65% of teams had no social work vacancies). However, the practice of covering for absent colleagues, which was reported by 63% of respondents, could be an additional stressor. The use of **agency workers** to cover vacancies might have mitigated some of the reported job dissatisfaction, but it raises further concerns about job stability and worker burnout. More research is needed to explore whether the reliance on temporary staff increases **job dissatisfaction**, burnout, and exacerbates recruitment and retention challenges in the sector (Karasek et al., 2013).

The **job dissatisfaction** observed in this study aligns with the findings from previous research that identified statutory responsibilities, such as those under the **Mental Health Act 1983**, as key contributors to worker dissatisfaction (Eborall & Garmeson, 2001). The **ASWs** in the sample appeared to take slightly more **sick leave** than their colleagues, which could be linked to the added stress associated with statutory roles. Alarming, 20% of respondents expressed a strong desire to leave their current post, with 21% already having specific plans to do so. This presents a significant concern for the stability of the workforce, particularly in the context of a shrinking pool of available social workers within the industry (Karkou et al., 2014).

These findings highlight the critical need for **improved working conditions** and a revaluation of the role of social workers within **mental health services**. Employers, particularly in sectors like manufacturing in Madhya Pradesh, India, must prioritize efforts to **make employees feel valued**, **enhance decision latitude**, and **reduce job demands**. By addressing these key factors, organizations can mitigate the risk of **burnout** and **improve overall job satisfaction** (Sonnentag et al., 2015).

In conclusion, the results underscore the importance of addressing the **work environment**, **job content**, and **organizational culture** to foster a more supportive and sustainable workforce. The implications of these findings go beyond just improving mental health, extending to the broader issue of **recruitment and retention** in the sector. Moving forward, both employers and government authorities need to recognize the significance of these factors and adopt strategies that will improve job satisfaction, reduce burnout, and enhance the well-being of workers (Hobfoll et al., 2016).

Limitations

When interpreting the findings of this study, particularly in the context of Indian manufacturing workers, including those in Madhya Pradesh, the following limitations should be considered:

- 1. Context-Specific Factors:** The study was conducted during a period of significant changes in the roles of workers, with evolving policies and frameworks within the Indian industrial sector. These developments may have influenced the mental health, stress, and burnout levels reported by workers. The specific dynamics within the manufacturing sector in Madhya Pradesh, such as organizational changes and regional economic factors, may have had an impact on the responses from participants.
- 2. Workforce Characteristics:** The nature of self-selection and factors external to the workplace, such as personal circumstances or regional economic conditions, may have contributed to the stress levels observed. While regression analyses suggest that these factors did not play a substantial role, the regional context—particularly in the industrial hubs of Madhya Pradesh—could have affected the results.
- 3. Sample Representativeness:** Although the response rate from workers in the study was deemed acceptable, it is important to recognize that manufacturing workers in specific regions like Madhya Pradesh may have differing experiences compared to those in other parts of India. Factors like the type of manufacturing industry, work culture, and socioeconomic conditions unique to Madhya Pradesh may impact how the findings can be generalized across the wider workforce.
- 4. Cross-Sectional Design:** As the study used a cross-sectional design, causal relationships between job demands, decision latitude, social support, and mental health could not be definitively established. The snapshot approach, while useful in identifying associations, does not allow for conclusive statements about how these factors interact over time. Future longitudinal studies focusing on the long-term mental health and burnout outcomes in the manufacturing sector in Madhya Pradesh could provide further insights.

By acknowledging these limitations, the study's findings can be interpreted within the specific context of Indian manufacturing workers, with an emphasis on the regional peculiarities of Madhya Pradesh. Further research with a larger, more representative sample and longitudinal approach would offer a clearer understanding of the underlying factors influencing workers' well-being in this context.

CONCLUSIONS

In the context of India's manufacturing sector, particularly in regions such as Madhya Pradesh, the findings from this study underscore the significant challenges faced by workers in terms of mental health, burnout, and job satisfaction. Similar to the mental health social work sector in the UK, manufacturing workers in India also operate in environments that are associated with high job demands, emotional exhaustion, and a sense of being undervalued. These factors not only contribute to poor mental health and job dissatisfaction but also have the potential to exacerbate recruitment and retention challenges within the manufacturing workforce.

The study highlights the importance of recognizing and addressing the factors that contribute to stress, burnout, and job dissatisfaction. In the Indian context, particularly within Madhya Pradesh's manufacturing industries, improving work conditions, offering better decision latitude, reducing excessive job demands, and enhancing workers' feelings of being valued are crucial steps towards improving mental health outcomes.

Moreover, as many manufacturing workers report negative feelings towards their jobs and express a desire to leave their current positions, it is clear that workforce planning must address these concerns to prevent a high turnover rate. The findings emphasize the need for targeted interventions to reduce stress, improve job satisfaction, and foster a work environment that values the contributions of workers.

To improve the recruitment and retention of manufacturing workers, especially in Madhya Pradesh, employers must consider policies that acknowledge the psychological demands of the job and create supportive environments. Further research is essential to explore effective strategies to enhance mental health and job satisfaction in the manufacturing sector, ensuring that workers feel valued and supported in their roles.

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