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Efficacy of Hiring Strategies for Mechanical Engineers in Manufacturing sector: Work Engagement, Job Satisfaction, and Turnover Intention

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Abstract - The study aims to investigate the relationship of work-related variables (work engagement, job satisfaction, and turnover intention) among internally and externally hired employees of Manufacturing sector. Utrecht work engagement scale has been used to measure work engagement, Warr-cook-Wall scale has been used for measuring job satisfaction, and for the calculation of turnover intention Boshoff and Allen scale is used. The study is analyzed using a statistical package of social science (SPSS 21.0). The reliability of the individual items was measured using Cronbach's alpha. Factor analyses are used (maximum likelihood factoring with varimax rotation). The findings reveal that there is a moderate significant association between the workrelated variable and the internally hired employee who is more engaged at their work, more satisfied in their job, and have less intention to leave their organization as compared to externally hired employees.

Index Terms - work engagement, job satisfaction, turnover intention, internal and external hiring, Manufacturing.

INTRODUCTION

Employees are the human resources of the organization. They are considered as an asset of the organization who set a competitive advantage for the company. The challenge in the current time is that organizations are facing a high attrition rate. To reduce the attrition rate, organizations are focusing on work-related behavior such as job embeddedness, work engagement, job satisfaction, organizational culture, employee loyalty, and many more, to engage employees at the workplace and also to generate the sense of commitment and sense of belongingness at the workplace. This study focuses on work engagement, job satisfaction, and turnover intention. Work engagement is the level at which the employee is engaged at their work and like their work. Work engagement leads to creativity, task performance, and satisfaction [6]. Job satisfaction is the extent to which the employee is satisfied with their work. It includes various aspects to analyze the job satisfaction such as current position with the roles and responsibility, support from the peer at the workplace, environment, and many more as identified by many researchers. Turnover intention is the intention of the employee to quit the organization. We can identify this among employees who are continuously thinking to leave the organization and exploring possibilities to do so. It is an important process of HR to hire the right person to fill up vacancies in the organization. The process of recruitment does not only mean attracting an adequate pool of applicants for the position to be hired but also analyzing which sources will be most fruitful which leads to important decisions relating to internal and external hiring. The aim of this study is to explore the influence of the method of hiring position (internal vs external hiring) on the work-related variables: work engagement, job satisfaction, and turnover intention.

LITERATURE REVIEW

Hiring employees externally or internally has been an important topic of debate [9] among HR strategists and academicians. Internal promotion is the motivation for employees to work hard [10] as it provides an incentive to move up the hierarchy [11]. This is also challenging for internal candidates as it requires adaptation to a new job which may lead to a drop in their performance [1]. When hiring externally, this adaptation period decreases for highperforming candidates. Organizations hire such employees

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Vol. 6 No. 1(January-June, 2021)

from competitors in hope that their skills will enhance the performance of the organization [21]. On the other hand, internal candidates have knowledge gained in the same working environment which gives them an edge over external candidates [4]. Work engagement interplays with job satisfaction and employee loyalty and also work engagement strongly predicts employee loyalty and significantly predicts job satisfaction [28]. A high level of work engagement and support of co-worker's results in high job satisfaction and reduces employee turnover [17]. Work engagement and compensation fairness have an inverse relationship with the intent to leave the organization. Job satisfaction is the mediating effect and age plays no role in identifying the turnover intent [8]. There is a linkage between work engagement and its inference with the personal life but work interference does not disturb the turnover intention [27]. There is an inverse relationship between work engagement and turnover intention [16]. The level of job embeddedness helps to predict the work engagement of the employee towards their job in the organization [22]. The employees must be engaged in their work but should not be workaholics [3] as it will lead to stress and thereby create an intense environment to work [25]. The related concept of work engagement is job performance, psychological state, involvement, job organizational commitment, challenging work, positive environment, and outcome [26]. However, there is no direct relationship between job satisfaction and turnover intention [14]. The problem of work engagement can be minimized through efficient strategies implementation such as compensation system, job rotation, training, and development [20]. The important predictor of engagement is the job and personal resources which will make the employee more willing to put their extra efforts, be more innovative and more efficient, and effective [7]. A satisfactory work environment, career growth opportunities, and job enrichment are the prime factors behind employee engagement as this will help the employer to retain its employees [13]. Usually, there is a generalized relationship across the organization at the business unit level in terms of the work engagement and performance of the organization [12]. There is no significant difference in the organizational performance and organizational commitment whether the employees are externally hired or internally hired [13]. The result shows that the performance of the external is lower than the internal hired employees [8]. However, there is no such difference in the job satisfaction of the employees across the level but in the case of work engagement and turnover intention [2] [3], line managers have lower work engagement and higher turnover intention [15]. The millennial has a higher intention to leave the organization as compared to the older generation and also millennials feel a lack of vigor and mental health deterioration at the workplace. Further, millennials quickly lose the enthusiasm, sense of significance, and challenges at the workplace in comparison to baby boomers [19].

MATERIAL AND METHODS

OBJECTIVE

- To study the relationship between work engagement, job satisfaction and turnover intention among manufacturing sector employees.
- To study the impact of the method of hiring position on work engagement among manufacturing sector employees.
- To study the impact of the method of hiring on job satisfaction among manufacturing sector employees.
- To study the impact of the method of hiring position on turnover intention among manufacturing sector employees.

SAMPLE AND PROCEDURE

Employees working in manufacturing sector, in national capital region, were considered for the study. The response was collected from 88 employees. A convenient sampling method has been adopted. Respondents comprised of 51% are male and 49% female out of which 43% were internally hired and 57% were externally hired, employees.

INSTRUMENTS

Work engagement: the valid questionnaire developed is named the UWES (Utrecht work engagement Scale). It consists of 17 items in total which have three dimensionsvigor (6 items), dedication (5 items), and absorption (6 items). An example for vigor is like "At work, I feel like bursting with energy"; for dedication is like "My job inspires me" and for absorption is like "time flies when I am at work" at % point Likert scale.

Job Satisfaction: The 10-item scale of the Warr-cook-Wall questionnaire is used to measure the job satisfaction of the employees. Example "Are you happy with the working hours" at 5-point-Likert scale.

Turnover Intention: The three-item scale from Boshoff and Allen is used to measure turnover intention. Example "How often do you think to quit the job" at 5 points Likert scale.

Table 1: Scale used for the study								
Part of scale Construct Measure No. of Item Reference								
Part A	Work engagement	17	Utrechtwork engagement Scale					
Part B	Job satisfaction	10	Warr-cook-Wall					
Part C Turnover intention 3 Boshoff and Allen scale								
Part C Turnover intention 3 Boshoff and Allen scale								

Data Analysis

The data was first entered in the statistical package of social science (SPSS 21.0). Descriptive analysis was done. The reliability of the individual items was done using Cronbach's alpha. Then factor was applied (maximum likelihood factoring with varimax rotation).

Reliability

Alpha (Cronbach) reliability of the analysis is 0.952 which indicates the high internal consistency, based on

Vol. 6 No. 1(January-June, 2021)

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International Journal of Mechanical Engineering

average inter-item correlation (Table 2). The item-wise reliability is shown in Tables 3 and 4.

Cronbach's Alpha	No of Items			
0.952	30			

Item-Total Statistics								
Saala Saala Cuanhaahia								
	Mean if	Variance	Corrected	Alpha if				
	Item	if Item	Item-Total	Item				
	Deleted	Deleted	Correlation	Deleted				
At my work, I feel bursting with	Dekteu	Deleted		Deleted				
energy.	96.3864	418.309	0.65	0.95				
I find the work that I do full of								
meaning and purpose.	96.2045	413.406	0.735	0.949				
Time flies when I am working.	96.25	413.385	0.734	0.949				
At my job, I feel strong and vigorous	96.3864	409.757	0.79	0.949				
I am enthusiastic about my job.	96.1364	410.694	0.788	0.949				
When I am working, I forget								
everything else around me.	96.7614	416.506	0.647	0.95				
My job inspires me.	96.3636	411.108	0.744	0.949				
When I get up in the morning, I feel								
like going to work.	96.625	416.766	0.606	0.95				
I feel happy when I am working								
intensely.	96.0682	413.903	0.762	0.949				
I am proud of the work that I do.	96.1591	411.009	0.704	0.949				
I am immersed in my work.	96.3864	414.286	0.708	0.949				
I can continue working for very long								
periods at a time	96.3182	415.3	0.696	0.95				
To me, my job is challenging.	96.3068	418.284	0.62	0.95				
I get carried away when I am								
working.	96.7159	418.16	0.644	0.95				
At my job, I am very resilient,	06 0041	417 100	0.776	0.040				
mentally.	96.2841	417.102	0.776	0.949				
It is difficult to detach myself from	96.6023	418.058	0.696	0.95				
my job	90.0025	416.036	0.090	0.95				
At my work, I always persevere,	96.4773	418.16	0.686	0.95				
even when things do not go well	90.4775	410.10	0.000	0.95				
Working hours are convenient for me	96.2159	420.079	0.551	0.951				
-								
Freedom at workplace is given to me	96.2614	418.954	0.598	0.95				
The lighting and other arrangements	96.1023	417.334	0.658	0.95				
in the office are satisfactory	0.6 4001	410 500	0.000	0.05				
I feel I have too much work to do	96.4091	419.509	0.609	0.95				
I feel I'm being paid a fair amount for	96.7273	421.35	0.553	0.951				
the work I do								
Opportunity to use my ability is given in the organization	96.3636	421.338	0.569	0.951				
8	96.4773	422.505	0.515	0.951				
I feel responsible at work I'm recognized for my work	96.4773 96.375	422.305	0.515	0.951				
Colleagues and fellow workers	90.373	+13.272	0.078	0.95				
motivate me to achieve organizational	96.4091	414.29	0.717	0.949				
goal	90.4091	414.29	0./1/	0.949				
I'm overall satisfied with the job	96.25	412.282	0.776	0.949				
I often think about quitting my								
present job	97.2841	439.723	0.148	0.954				
I will probably look for a new job in								
the next year	97.0455	438.113	0.147	0.955				
As soon as possible, I will leave the								
organization	97.3864	441.895	0.084	0.955				
or Sumzation			8					

ELGTOF			: Factor CTOR N				FOR	% OF
FACTOR NAME	ITEMS			ACTOR			EGINE VALUES	VARIAN
NAME	TIENIS	1	2	3	4	5	VALUES	CE
	At my work, I feel	0.714						
	bursting with energy.							
	I find the work that I	0.671					7.042	26.200
	do full of meaning and	0.671					7.863	26.209
	purpose. Time flies when I am							
	working	0.748						
	At my job, I feel							
	strong and vigorous	0.666						
	I am enthusiastic about	0.75						
	my job.	0.75						
	When I get up in the							
	morning, I feel like	0.558						
	going to work.							
	I feel happy when I	0.781						
WORK	am working intensely. I can continue working							
ENGAGEM	for very long periods	0.58						
ENT	at a time	0.20						
	I get carried away	0.45-						
	when I am working.	0.423						
	At my job, I am very	0.631						
	resilient, mentally	0.031						
	At my job, I am very	0.696						
	resilient, mentally	0.020						
	At my work, I always							
	persevere, even when	0.611						
	things do not go well The lighting and other							
	arrangements in the	0.629						
	office are satisfactory	0.02)						
	When I am working, I							
	forget everything else		0.636					
	around me.							
	My job inspires me.		0.419				4.715	15.717
	I am proud of the		0.775					
	work that I do.							
	I am immersed in my		0.767					
ATTITUDE TOWARDS								
JOB	To me, my job is challenging		0.747					
100	I feel I have too much							
	work to do		0.762					
	Working hours are							
	convenient for me			0.535				
	Freedom at work			0.41			3.082	10.274
	place is given to me			0.41			5.082	10.274
	I feel I'm being paid a							
	fair amount for the			0.749				
REWARDS								
& EACILITIE	Opportunity to use my ability is given in the			0.673				
S	ability is given in the organization			0.073				
5	I feel responsible at							
	work			0.869				
	I'm recognized for my			0.42-				
	work			0.427				
	Colleagues and fellow							
ORGANIS	workers motivate me				0.779			
ATION	to achieve							
SUPPORT	organizational goal							
	I'm overall satisfied				0.488		2.643	8.809
	with the job							
	I often think about					0.835		
	quitting my present job					0.033		
INTENTIO	I will probably look							
N TO	for a new job in the					0.849	2.336	7.786
LEAVE	next year							
LEAVE								
LEAVE	As soon as possible, I							
LEAVE						0.867		

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Vol. 6 No. 1(January-June, 2021)

International Journal of Mechanical Engineering

Table 4										
KMO and Bartlett's Test										
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.								0.826		
Approx. Chi-Square							2595.263			
Bartlett's Test of			Df				435			
Sphericity				Sig.				0		
				Table	6					
				Model Sun	nmary					
				Std. Error		Change	e Statist	istics		
Model	R	R Square	Adjusted R Square	of the Estimate	R Square Change	F Change	df1	df2	Sig. F Change	
1	.213 ^a	0.045	-0.001	2.55278	0.045	0.983	4	83	0.422	

	Table 7								
	ANOVA								
Mo	del	Sum of Squares	df	Mean Square	F	Sig.			
	Regression	25.613	4	6.403	0.983	.422 ^b			
1	Residual	540.885	83	6.517					
	Total	566.498	87						

a. Dependent Variable: TI

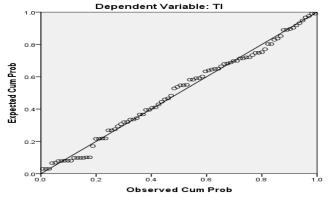
b. Predictors: (Constant), OS, RF, ATW, WE

Table o										
Coefficients										
Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics					
В	Std. Error	Beta)	Tolerance	VIF				
5.58	1.265		4.41	0						
0.053	0.071	0.145	0.747	0.46	0.305	3.283				
0.137	0.104	0.206	1.321	0.19	0.471	2.124				
-0.007	0.113	-0.009	-0.07	0.95	0.577	1.732				
-0.562	0.346	-0.284	-1.62	0.11	0.375	2.667				

Table 8

. Dependent Variable: TI

Normal P-P Plot of Regression Standardized Residual



Discussion

The study aimed to find out the significant relationship between work engagement, job satisfaction, and turnover intention. According to the result, there is no significant relationship that can be observed of turnover intention with work engagement and job satisfaction. This is contrary to the literature and may be because of the pandemic situation, where employees are having high risks of losing their jobs. Thus, the behavior which is exhibited by them is less rational or expected. Employees may have low intention to leave their job even though work engagement and satisfaction are less. However, there is a positive relationship between work engagement and job satisfaction. The employees who are internally hired are more engaged at work, satisfied with their job, and have fewer intentions to leave the organization. However, the employee who is externally hired are also well engaged with their work but less satisfied and also more intend to leave the organization comparative to externally hired employees.

Conclusion

The organization should focus on the internal hiring policies in the organization as their priority. The employees who are internally hired are more engaged, satisfied, and less intent to leave the organization as compared to externally hired employees. As nowadays the employee seeks career growth and if they don't see any aspect of their career growth, they tend to leave the organization. They want to grow with the organization and contribute to it. In the recent trend, every organization wants to become a high-performance organization. So right people to be placed at the right time at the right position. And also, for the externally hired employee's internal growth they must be taken care of to enhance loyalty and organization commitment. Hence, the career aspect is an important phenomenon to reduce turnover intention.

Limitation and Future Scope

This study is limited to the Delhi NCR region and convenient sampling is adopted. A larger population with variations in age, gender, cultural background can make the research more interesting. For the future scope, the same research can be conducted with the larger variable. the scholar can also conduct the comparison of internal and external hired employees with other work-related variables such as employee loyalty, organization commitment, job involvement, etc. Also, further research on work engagement, job satisfaction, and turnover intention can be studied in comparison with other aspects such as traditional v/s online recruited employees or different levels of employees, and many more.

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Vol. 6 No. 1(January-June, 2021)

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International Journal of Mechanical Engineering

Vol. 6 No. 1(January-June, 2021)