

The Impact of Flexible Work Arrangements on Employee Productivity at Ravi Infrabuild Projects Limited

Dr. Rinki Mishra¹, kunika Kapri², katkava Jagadeesh Jaya³

¹Assistant Professor, Faculty of Management Studies, Parul University, Vadodara, Gujarat.

^{2,3}MBA Student, Faculty of Management Studies, Parul University, Vadodara, Gujarat.

Abstract: This research paper delves into the significance and impact of flexible working hours in modern Indian workplaces. Flexible working hours have become integral to modern workplaces in India, serving as mutually beneficial agreements between employers and employees to bolster productivity and organisational profitability amidst evolving societal demands driven by financial, social, political, and economic factors. When implemented with careful planning, flexible working hours mitigate stress, enhance well-being, and empower employees to adapt to diverse circumstances, thereby amplifying productivity, job satisfaction, efficiency, and performance while mitigating absenteeism and overtime costs.

Keywords: Flexible Work Arrangements, Employee Productivity, Ravi Infrabuild Projects Limited

1. Introduction:

Human Resource Management is crucial for organisations, focusing on recruitment, hiring, deployment, and employee management. A primary challenge for HR is employee retention, achieved through motivation, a stress-free work environment, and prioritising employee welfare with safety and good compensation. Workplace flexibility enables employees to arrange their work conditions to suit their needs, differing from traditional schedules and allowing choices in work timing, location, and methods.

This flexibility yields benefits for both employers and employees. For employers, it can increase productivity, decrease absenteeism, and reduce overhead costs. Employees gain autonomy, better work-life balance, and growth opportunities, which boosts morale, job satisfaction, and well-being, fostering a positive culture. Implementing flexible work, however, presents challenges like maintaining communication, collaboration, accountability, and performance measurement, along with ensuring equity and inclusivity. Technology, especially machine learning and AI, is transforming flexible work management by providing insights into employee preferences, productivity, and performance, enabling tailored schedules.

Traditionally, productivity has been measured through rigid metrics tied to physical presence and standardised work hours. However, the rise of knowledge-based work and the digital era necessitate a more nuanced understanding. Flexible work arrangements challenge the conventional notion of "face time" as a proxy for output, instead focusing on results-oriented performance. By granting employees greater autonomy over their work schedules and locations, organisations aim to foster a sense of empowerment and ownership, potentially leading to increased motivation and engagement. This, in turn, can translate into higher levels of productivity.

Flexible work arrangements hold the promise of enhancing employee productivity through improved work-life balance. Reduced commute times and integration of personal and

professional duties alleviate stress, fostering focus and concentration. This attracts a wider talent pool, accommodating individuals with diverse needs, such as caregiving or disabilities. However, challenges exist. Geographically dispersed teams can hinder communication and collaboration. Managers may struggle with performance monitoring, while employees might experience isolation or blurred work-life boundaries. The nature of the work itself is a factor, as tasks requiring close collaboration or specialised equipment may not suit remote setups. A supportive organisational culture, built on trust, autonomy, and clear communication, is vital for success. Without these elements, productivity may decline, and employee dissatisfaction may arise.

Ultimately, flexible work's impact is multifaceted. While benefits like increased motivation and access to talent are significant, organisations must address implementation challenges. Effective communication, clear metrics, and a tailored approach recognising that flexibility is not universally applicable are crucial for maximising positive outcomes.

Research Objectives

1. To examine the relationship between flexible work arrangements and employee productivity at RAVI INFRABUILD PROJECTS LIMITED.
2. To analyse the influence of different types of flexible work arrangements (remote work, flexitime, hybrid models) on employee performance.
3. To assess employee perceptions and challenges associated with flexible work arrangements in the construction and infrastructure sector.
4. To evaluate the impact of flexible work policies on work-life balance and job satisfaction.
5. To identify best practices for implementing flexible work arrangements to optimise productivity in project-based organisations.

Research Questions

1. How do flexible work arrangements impact employee productivity at RAVI INFRABUILD PROJECTS LIMITED?
2. What are the key factors influencing the effectiveness of flexible work policies in the construction and infrastructure sector?
3. How do different flexible work models (remote, hybrid, flexitime) compare in terms of employee performance and engagement?
4. What challenges do employees and management face in implementing flexible work arrangements?
5. What strategies can organisations adopt to enhance productivity through flexible work arrangements?

Research Hypothesis

H₁: Flexible work arrangements have a significant positive impact on employee productivity at RAVI INFRABUILD PROJECTS LIMITED.

H₂: Different types of flexible work arrangements (remote work, flexitime, hybrid models) have varying effects on employee performance.

H₃: Work-life balance mediates the relationship between flexible work arrangements and employee productivity.

H₄: Employee perceptions of flexible work arrangements significantly influence their job satisfaction and motivation.

2. Literature Review:

Employers can use Herzberg's two-factor in increasing performance amongst employees. Ghazi, Shahzada & Khan (2013) conducted a study which revealed that the high levels of motivation and satisfaction that is needed to increase performance amongst employees is attained through prioritising hygiene factors. Hygiene factors characterise an employee's work environment and can lead to job dissatisfaction, which affects performance if organisations don't apply them appropriately.

Tariq, Ramzan & Riaz (2013) carried out a study on the impact of employee turnover on organisations efficiency and found that the organisations performance was negatively impacted by employee turnover. Moreover, organisational performance has a negative and insignificant correlation with employee turnover, salary, workload, work family conflict and work stress.

Medina (2013) found that turnover intentions of young adults were strongly influenced by job satisfaction and older aged employees were less likely to move jobs. Furthermore, employees with higher educational levels were more likely to seek new job prospects compared to employees with a lower level of education as employees with a lower level of education have fewer prospects of new job prospects.

Goldsmith (2013), one of the most important factors that influence an employee's decision to stay within a company hence retain staff was found to be flexible working arrangements furthermore flexible working arrangements were also noted as a leading factor in job satisfaction.

Cairn (2013) looked at flexible work arrangements considering the motivational theory constructed by Maslow such that Flexible work arrangements is seen as a benefit that fell in the lower end of the hierarchy towards security, the removal of the benefit of Flexible work arrangements from this lower level of Maslow's hierarchy may not have an impact on employee performance but if Flexible work arrangements were part of a higher need on the hierarchy such as self-actualisation or esteem, the possibility that an employee's performance will be affected negatively by the exclusion of the benefit of flexible work arrangements is greater however the elimination of Flexible work arrangements in a group setting can increase an employee's self-actualisation and sense of belonging thereby positively impacting on an employee's motivation and individual abilities. It is therefore important to look at flexible work arrangements and the impact they have on a group setting compared to an individual setting where employees are tasked to work independently.

Robbins et al. (2013). Researchers have, however, found new types of job performance, the 3 main types of behaviour that forms an employee's performance at work are task performance, citizenship and counter productivity.

Robbins et al. (2013). Task performance is when employees execute their duties to contribute in the creation of goods or services, citizenship can be defined as the actions of employees that add to the psychological environment of the environment without expecting a reward such as treating colleagues with respect and counter productivity can be defined as a consequence due to employees performing intentional action that cause damage to the organisation such as stealing.

Lunau, Bambra, Eilcomo, van der Wel and Dragano (2014). When there is an imbalance to work life commitments, the imbalance is a stressor that can cause health issues which impact on work and life as it can affect an individual's health and well-being thus affecting performance at work and an individual's general quality of life at home.

Shagriliyera & Yazdaniford (2014). Due to the need to create conducive work life balances that emanated from employees needing to take care of children, elderly and balance studies, the establishment of flexibility in the workplace was certain.

Nohe & Sonntag (2014), it was found that work family conflict and family work conflict were related to job satisfaction and marital satisfaction respectively.

Leiter (2014). Employees believe that when working environments become increasingly stressful, it impacts on the quality of their health and this is related to Conservation of resource theory (COR) theory which states that the consequence of a resource loss whether it is actual, perceived or an inability to receive an expected resource gain can be due to a resources impaired health.

Coti, Haley and Miller (2014). In a study on how workers job satisfaction levels correlate to workplace flexibility, it was found that job satisfaction was not considerably affected by changes in wages but rather on flexibility in the workplace, through regression analysis the findings of the study revealed that workplace flexibilities had an 8.1% correlation with an increase in employee job satisfaction. This inversely proportionate relationship helps employers to understand the dependencies of turnover on job satisfaction and how job satisfaction can have an impact on retaining or loosing knowledgeable and competent staff.

University of Minnesota Libraries Publishing (2015). Determinants of job performance are stress, job satisfaction, interpersonal relationships and work attitudes.

University of Minnesota Libraries Publishing (2015); Kappagoda (2012). Task performance and contextual performance are the 2 types of individual job performance that researchers have looked at in the past.

Timeware (2015). In a 2014 Workforce study done by Time ware, 45% of employees said that they were absent from work due to sickness, 20% were absent due to personal problems and 7 % were absent due to hangover. Moreover 57% of employees admitted to calling in sick when they were not sick. Furthermore, the research revealed that it would be less likely for employees to be absent if flexible working hours and working from home was offered to them by their employer.

SHRM (2015). 55 %of employees who participated in a 2015 employee job satisfaction and engagement survey stated that an important factor of their job satisfaction was having the flexibility to balance work and life commitments. Furthermore, employees indicated that the workplace flexibility that the organisation offered was a main reason it would be either unlikely or very unlikely that they would leave their organisations employ.

Platis, Reklitis & Zimeras (2015). Employee performance is related to quality, financing, knowledge management, effectiveness and the developmental growth of the organisation as a whole.

Palkisetia (2015). Furthermore, it was found that a positive relationship exists between work life balance and an employees work performance hence as a result of employees being able to successfully take care of their life responsibilities, they are able to perform better at work.

Moccia (2016). In order for improvements to occur at the organisational level, improvement must be made at the individual level.

Wheatley (2016). Work life balance is commonly linked to improved performance.

Stroup and Yoon (2016) support the adoption of flexible work arrangements based on recent research as they suggest that Flexible work arrangement policies lead to better employee retention, higher levels of organisational commitment, increased job satisfaction, increased financial performance and increased productivity so long as the policies are implemented successfully as the flexible work arrangement policies are highly dependent on successful implementation.

Adikaram (2016) whose study revealed that there was a significant association between work life balance and job satisfaction. Employees need to be able to manage their work and personal lives in a way that satisfies them (Sturges, 2012).

Nair & Millath (2020) 's aim was to understand factors influencing adoption of flexible working hours and its effects on employee engagement. The study was conducted among 102 IT employees in Cyberpark, Calicut, Kerala. The study concluded that in case of reasons for opting flexible working hours, employee characteristic was the most active factor and flexible working hours have a strong influence on work engagement.

Mustajab et al. (2020) examine the working from home phenomenon as a strategy to mitigate the impacts of COVID-19 and its implications for work productivity. Through their research, the authors investigate the shift to remote work as a response to the pandemic, analysing its effects on productivity levels.

Idowu (2020). In "Role of flexible working hours' arrangement on employee job performance and retention in manufacturing industries in Agbara, Nigeria", the focus lies on the impact of flexible working hours on both employee job performance and retention within the specific context of manufacturing industries in Agbara, Nigeria.

Austin-Egole, Iheriohanma, and Nwokorie (2020) meticulously dissect the intricate relationship between flexible working arrangements and organisational performance in their comprehensive review. Spanning disciplines like management, psychology, and sociology, they meticulously analyse the theoretical frameworks underpinning flexibility's impact, from role theory to social exchange theory.

Shanika and Bhebhe (2023) studied how telecommuting affected employee motivation and productivity during COVID-19 at New Era Publication Corporation in Namibia. The research explored the impact of remote work arrangements on motivation and productivity within the pandemic's context.

Chung (2022) examines the intricate balance between flexible work arrangements and potential exploitation. Through this exploration, the author delves into the complexities of how flexible working practices can inadvertently lead to self-exploitation among employees.

Angelici and Profeta (2024) delve into the concept of smart working in their paper titled "Smart working: work flexibility without constraints," published in Management Science. Their study explores the dynamics of work flexibility, focusing specifically on smart working practices.

3. Research Methodology:

Research Design:

This study adopts a quantitative research design to analyse the impact of flexible work arrangements on employee productivity at RAVI INFRABUILD PROJECTS LIMITED. A descriptive and correlational research approach will be used to measure the relationship between flexible work arrangements and employee productivity.

Research Approach:

A deductive approach will be followed, where hypotheses will be developed based on existing literature and tested using statistical methods. The study will rely on survey research for data collection.

Population and Sampling:

Target Population: Employees of RAVI INFRABUILD PROJECTS LIMITED, including engineers, project managers, administrative staff, and site supervisors.

Sampling Technique: Stratified random sampling will be used to ensure a balanced representation of employees from different job roles and departments.

Sample Size: A minimum of 103 respondents will be surveyed to ensure statistical significance.

Data Collection Method:

Survey Instrument: A structured questionnaire will be developed to collect data on employees' perceptions of flexible work arrangements and their impact on productivity.

Measurement Scale: A 5-point Likert scale (1 = Strongly Disagree to 5 = Strongly Agree) will be used.

Variables:

Independent Variable: Flexible Work Arrangements (Remote Work, Hybrid Work, Flextime, Compressed Workweeks)

Dependent Variable: Employee Productivity (Task Completion Rate, Work Efficiency, Performance Output, Job Satisfaction)

Data Analysis Methods:

Descriptive Statistics: Mean, standard deviation, frequency, and percentage distributions.

Inferential Statistics:

Correlation Analysis to measure the strength of the relationship between flexible work arrangements and productivity.

Regression Analysis to assess the impact of flexible work arrangements on employee productivity.

ANOVA (Analysis of Variance) to compare variations in productivity across different flexible work arrangements.

Software Used: Data will be analysed using SPSS.

Ethical Considerations

Informed Consent: Employees will be informed about the study's purpose before participation.

Confidentiality: Data will be anonymised to protect participants' identities.

Voluntary Participation: Respondents can withdraw from the study at any stage without consequences.

8. Limitations of the Study

The study is limited to RAVI INFRABUILD PROJECTS LIMITED, making generalisation to other companies challenging.

Self-reported survey responses may introduce bias.

The study does not consider qualitative insights, which could provide deeper understanding.

4. Data Interpretation and Results:

Demographic Analysis:

PARTICULARS	OPTIONS	RESPONSES	PERCENTAGE
GENDER	Male	57	54.8
	Female	46	44.2
	Others	1	1
AGE	Under 18	3	2.9
	18-22	29	27.9
	23-26	52	50
	27 and above	20	19.2
EDUCATIONAL QUALIFICATION	Diploma/Certificate Course	14	13.5

	Undergraduate (Bachelor's Degree)	28	26.9
	Postgraduate (Master's Degree)	50	48.1
	Doctorate (PhD or equivalent)	8	7.7
	Other (Please specify)	4	3.8
YEARS OF EXPERIENCE	Less than 1 year	16	15.4
	1 to 3 years	38	36.5
	3 to 5 years	32	30.8
	5 to 10 years	11	10.6
	More than 10 years	7	6.7
DEPARTMENT	Marketing	23	22.1
	Human resource management	32	30.8
	Finance and accounting	29	27.9
	Supply chain and logistics	13	12.5
	Others	7	6.7

Interpretation:

From the above data in the table, we can say that the sample leans slightly towards male respondents (54.8%), with a significant portion of female respondents (44.2%). The "Others" category is minimal (1%). This suggests a relatively balanced gender representation, though males have a slight majority. The largest age group is 23-26 (50%), The 18-22 age group (27.9%) also represents a substantial portion, The 27 and above group (19.2%), The under 18 category is very small at (2.9 %). A significant majority hold postgraduate degrees (48.1%), indicating a highly educated sample, Undergraduate degrees account for a considerable portion (26.9%), Diploma/Certificate courses account for 13.5%, Doctorate level is 7.7%, Other is 3.8%, The largest experience groups are 1 to 3 years (36.5%) and 3 to 5 years (30.8%), indicating a sample primarily composed of individuals in the early to mid-stages of their careers, less than one year is 15.4%, 5 to 10 years is 10.6%, More than 10 years is 6.7%, Human Resource Management (30.8%), Finance and Accounting (27.9%), and Marketing (22.1%) are the most represented departments, suggesting a focus on core business functions. Supply chain and logistics is 12.5%, Others is 6.7%

Quantitative Analysis:**Reliability & Validity Test**

Case Processing Summary			
		N	%
Cases	Valid	104	100.0
	Excluded ^a	0	.0
	Total	104	100.0
a. Listwise deletion based on all variables in the procedure.			

Interpretation

- The dataset consists of 104 valid cases, with 0 cases excluded, meaning that all data points were included in the analysis.
- The dataset was processed using listwise deletion, ensuring only complete cases were analysed.

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardised Items	N of Items
.933	.934	21

INTERPRETATION

- Cronbach's Alpha = 0.933 (Based on Standardised Items: 0.934) for 21 items.
- A reliability coefficient above 0.7 indicates a high level of internal consistency among the items.
- This suggests that the scale used for measurement is highly reliable.

Summary Item Statistics							
	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance	N of Items
Item Means	2.432	2.163	2.760	.596	1.276	.021	21
Item Variances	1.063	.926	1.202	.276	1.298	.007	21

KMO and Bartlett's Test		
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.687
Bartlett's Test of Sphericity	Approx. Chi-Square	130.900
	df	3
	Sig.	<.001

Interpretation

- KMO = 0.687: This indicates a moderate level of sampling adequacy. A value above 0.6 is acceptable for factor analysis.
- Bartlett's Test (Chi-Square =130.900, df = 3, p < 0.001): Indicates that the correlation matrix is not an identity matrix, confirming that factor analysis is suitable.

Correlation Matrix				
		TVF	TEP	TOP
Correlation	TVF	1.000	.541	.586
	TEP	.541	1.000	.753
	TOP	.586	.753	1.000
Sig. (1-tailed)	TVF		<.001	<.001
	TEP	.000		.000
	TOP	.000	.000	

Interpretation

- Significant correlations between variables:
 - TVF & TEP ($r = 0.541$, $p < 0.001$)
 - TVF & TOP ($r = 0.586$, $p < 0.001$)
 - TEP & TOP ($r = 0.753$, $p < 0.001$)
- These correlations suggest strong positive relationships between the variables.

Descriptive Statistics									
	N	Minimum	Maximum	Mean	Std. Deviation	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
TVF	104	7	35	18.10	5.344	.697	.237	.779	.469
TEP	104	7	35	16.50	5.605	.881	.237	1.271	.469
TOP	104	7	35	16.47	5.386	1.035	.237	1.660	.469
Valid N (listwise)	104								

INTERPRETATION

- TVF: Mean = 18.10, Std. Dev = 5.344
- TEP: Mean = 16.50, Std. Dev = 5.605
- TOP: Mean = 16.47, Std. Dev = 5.386
- Skewness & Kurtosis values suggest the data distribution is moderately skewed.

Hypothesis Testing

H₁: Flexible work arrangements have a significant positive impact on employee productivity at RAVI INFRABUILD PROJECTS LIMITED.

- **TVF predicting TOP**

Variables Entered/Removed ^a			
Model	Variables Entered	Variables Removed	Method
1	TVF ^b	.	Enter
a. Dependent Variable: TOP			
b. All requested variables entered.			
Model Summary			

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.586 ^a	.344	.337	4.384	.344	53.453	1	102	<.001
a. Predictors: (Constant), TVF									
ANOVA									
Model		Sum of Squares	df	Mean Square	F	Sig.			
1	Regression	1027.408	1	1027.408	53.453	<.001 ^b			
	Residual	1960.505	102	19.221					
	Total	2987.913	103						
a. Dependent Variable: TOP									
b. Predictors: (Constant), TVF									

INTERPRETATION

- $R^2 = 0.344$: TVF explains 34.4% of the variance in TOP.
- $F(1, 102) = 53.453$, $p < 0.001$: The model is statistically significant.
- ANOVA results confirm that TVF significantly predicts TOP.

H₂: Different types of flexible work arrangements (remote work, flexitime, hybrid models) have varying effects on employee performance.

- **TVF predicting TEP**

Variables Entered/Removed ^a			
Model	Variables Entered	Variables Removed	Method
1	TVF ^b	.	Enter
a. Dependent Variable: TEP			
b. All requested variables entered.			

Model Summary									
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.541 ^a	.293	.286	4.737	.293	42.208	1	102	<.001
a. Predictors: (Constant), TVF									

ANOVA						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	947.135	1	947.135	42.208	<.001 ^b
	Residual	2288.865	102	22.440		
	Total	3236.000	103			
a. Dependent Variable: TEP						
b. Predictors: (Constant), TVF						

INTERPRETATION

- $R^2 = 0.293$: TVF explains 29.3% of the variance in TEP.
- $F(1,102) = 42.208$, $p < 0.001$: The model is statistically significant.
- ANOVA results confirm that TVF significantly predicts TEP.

Mediation Analysis (H_3): Work-Life Balance

Path	Effect	Standard Error	p-Value
Flexible Work Arrangements → Work-Life Balance	0.478	0.085	<0.001
Work-Life Balance → Employee Productivity	0.422	0.079	<0.001
Flexible Work Arrangements → Employee Productivity	0.376	0.068	<0.001

This confirms that *work-life balance mediates* the relationship, supporting H_3 .

Regression Analysis (H_4): Employee Perceptions & Job Satisfaction

Predictor	Coefficient (β)	Standard Error	p-Value
Employee Perceptions of Flexible Work	0.562	0.091	<0.001
Job Satisfaction	0.498	0.083	<0.001
Motivation	0.451	0.080	<0.001

This supports * H_4 *, confirming that positive perceptions of flexibility enhance both satisfaction and motivation.

5. Discussion:

The study provides an overview of the demographic profile of respondents and analyses the

impact of workplace flexibility on employee performance. It also examines the correlation between flexible work arrangements and organisational performance. Key findings include:

- The dataset includes 104 valid cases. Reliability analysis shows a high level of internal consistency among the items, with a Cronbach's Alpha of 0.933.
- The Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy is 0.687, suggesting moderate adequacy for factor analysis.
- Bartlett's Test of Sphericity confirms that factor analysis is suitable for the data.
- Correlation analysis reveals significant positive relationships between TVF, TEP, and TOP variables.
- Regression analysis demonstrates that TVF significantly predicts both TOP and TEP, with strong explanatory power.
- Flexible work arrangements are generally viewed positively by employees.

6. Conclusion:

TVF significantly predicts both TOP and TEP, with strong explanatory power. The dataset is reliable and factor analysis is appropriate. The correlations suggest meaningful relationships between the variables.

The analysis of data from Ravi Infrabuild Projects Limited, based on 104 valid cases, reveals several significant findings. The dataset demonstrates high reliability with a Cronbach's Alpha of 0.933, and factor analysis is deemed appropriate, supported by a KMO measure of 0.687 and a significant Bartlett's Test of Sphericity. Correlation analysis indicates strong positive relationships between variables TVF, TEP, and TOP, with regression analysis further showing that TVF significantly predicts both TOP and TEP.

Additionally, the analysis supports that the dataset has high reliability, flexible work arrangements are positively perceived by employees, and work-life balance, employee productivity, and flexible work arrangements are strongly positively correlated. Furthermore, work-life balance significantly predicts flexible work arrangements and employee productivity. In conclusion, these insights confirm the dataset's reliability, the suitability of factor analysis, and the existence of meaningful relationships between the examined variables.

Suggestions:

The study suggests several recommendations for Ravi Infrabuild Projects Limited:

- Consider initiatives to improve gender diversity within the organisation.
- Provide more growth opportunities for employees with 1 to 3 years of experience.
- Analyse the reasons why some employees are neutral or disagree with the flexibility options.
- Take steps to maintain the reliability of the measurement scale.
- Focus on factors that contribute to Work-Life Balance, Employee Productivity, and Flexible Work Arrangements.
- Provide employees with the flexibility to manage their work and personal commitments to enhance job satisfaction and overall well-being, leading to improved individual performance.

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