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### Factors to Reduce the Challenges of Remote Workers: A Case Study of IT Companies in Pakistan

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## **Abstract**

Remote work has become a major trend in Pakistan's IT sector, but it also comes with challenges for employees. This study explores how companies can help make remote work easier by focusing on good HR practices, supportive leadership, meaningful work, and work-life balance. Using a survey of 208 remote workers from leading IT companies like Systems Limited, Devsinc, NetSol, Confiz, and NBit Softwares, we analyzed how these factors impact employees' experiences. Our findings show that when companies invest in employee development, promote inclusive leadership, and create a positive work environment, remote workers feel more engagement, motivated, and satisfied while doing jobs. This study highlights the importance of strong workplace policies and leadership strategies in making remote work more effective and enjoyable. The insights from this study can help companies improve their remote work setups as well as support their employees better.

## **Introduction**

The study specifies that remote employment in Pakistan's IT industry is growing. Companies are embracing remote work to increase work-life balance, convert and remember talented individuals, and reduce overheads. The study identifies the rising importance of remote work and pursues toward report the hitches it grants. Remote employees may additionally experience emotions of solitude and isolation because of sporadic interactions with colleagues. Remote workers may encounter challenges in achieving work-life balance. In recent decades, technology has revolutionized global commerce (Müller et al., 2019). The onset of COVID-19 came as a surprise to companies that were making preparations for a future centered on technology. Companies promote telecommuting to enhance financial stability. Common words encompass "work from home," "distributed work," "remote work," "telework," "telecommute," and "virtual work". Information and Communication Technology (ICT) facilitates the connection of remote workers to their work (Norlander et al., 2021).

Before the epidemic, remote employment was rarely used, regardless of its ability to offer freedom (Jaiswal & Arun, 2020). Remote employment was delimited to contingent people in a few sectors. Prolonged distance employment can cause demotivation, alienation, and isolation among far flung workers (Cooper & Kurland 2002; Golden, Veiga, & Dino 2008; Jaiswal & Arun 2020). Remote work has seen substantial expansion in Pakistan throughout the last twenty years. According to the statistics on those who work remotely,

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the quantity of telecommuters multiplied from 3.59 million to 4.37 million between 2014 and 2018. There may be difficulties when job and family life merge. Boundary theory examines the extent to which challenges can be conquered. The blurring of work and family life boundaries brought about by technological advancements has trapped many people in a never-ending loop (Malhotra, 2021). Work from home has become the norm due to the COVID-19 pandemic of 2020–21. Everyone from governments to individuals has been forced to reconsider their approaches to hiring as a result of the COVID-19 outbreak. Inclusion, engagement, and recognition are more concentrated among remote workers (Varma, Jaiswal, Pereira, & Kumar, 2022).

Remote workers, especially those based in Pakistan, face multiple challenges. Remote employment can frustrate effective communication and hamper collaborative efforts. Remote workers frequently realize that digital communication solutions are unskilled of completely reproducing the experience of in-person conversations.

Thus, people enjoyed the benefits of working remotely, such as the self-government to control their own schedule and work from any location, leading to a decrease in time spent on commuting. Furthermore, Sweis et al. (2020) underscore that employee's express disappointment with the nonexistence of distinct separations among their professional and personal lives. Despite the drawbacks of remote labor, it is projected to continue being favored even post-pandemic due to financial benefits and a shift in the outlooks of both organizations and workers (Varma et al., 2022). Telecommuting has a substantial influence on professional connections. The supervisor assumes responsibility for many activities, including assigning work, providing feedback, managing employees, fostering growth, and doing job analysis (Varma et al., 2022). The study acknowledges the growing frequency of telecommuting, the difficulties encountered by remote workers in Pakistan's IT sector, and the significance of inclusive leadership, fulfilling job roles, maintaining work-life equilibrium, and fostering human resource growth. The research seeks to enhance awareness of these challenges and offers solutions for firms that utilize remote workers.

## **Literature Review**

### **Theory of Work Adjustment**

The paper titled "Factors to Reduce the Challenges of Remote Workers: A Case Study of IT Companies in Pakistan" discusses the Theory of Work Adjustment. According to Theory of Work Adjustment, there is an association among an individual's attributes and their work

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environment, and a successful reworking to the work environment results in both workplace gratification and amended presentation (Judge, 1994). TWA highlights the implication of a pleasant alignment between an individual and their surrounding environment. HRD practices can be viewed as intrusions aimed at enabling the achievement of the necessary skills, knowledge, and capacities for remote work (Bayl-Smith, & Griffin, 2015).

The importance of achieving a successful adjustment by balancing personal and work-related requirements is emphasized by TWA (Bayl-Smith, & Griffin, 2015). Prominence, when considered as a separate factor, corresponds with the TWA viewpoint by focusing on the psychological elements of job satisfaction and motivation.

## **Remote Work**

Information technology has become a crucial factor of every organization, pretention a greater test related to conventional work environments. Remote work has become widespread thanks to the growing usage of information technology in the workplace (Adisa et al., 2021). Terms like virtual work, telework, telecommuting, working from home, and distributed work are often used interchangeably to define this setup (Ahmad et al., 2021). Over time, it has become the norm for both businesses and employees. To effectively manage remote teams, leaders may need training not only in technology but also in interpersonal skills to foster strong communication and partnership (Grant et al., 2013).

## **Remote Work Challenges**

The COVID-19 pandemic has enhanced the transition to remote work, leading to various difficulties for employees (Hamouche, 2021). Remote labor poses several managerial challenges, including the preservation of corporate values, culture, and control mechanisms, as discussed by Li et al. (2023) and Lysova et al. (2023). According to a research conducted by Byrd (2022), distant workers face difficulties in communication, since only 14% of them stated that their communication requirements were being fulfilled. According to a study conducted by Collings et al. (2021) remote workers often work for an average of 43 hours per week, which is four hours longer than their colleagues who work on-site.

Policies promoting a harmonious equilibrium between work and personal life, enhanced modes of communication and cooperation, and heightened assistance for employees working remotely are potential strategies to attain this objective (Bulinska-Stangrecka et al., 2021). Hence, the present research aims to examine several organizational elements that subsidize to mitigating the issues associated with remote work, specifically

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within the context of IT businesses.

## **Background Of Factors Reducing Remote Work Challenges**

The prevalence of telecommuting has been steadily increasing in recent years, however it is not without its challenges. Fortunately, there are other variables that can alleviate these issues and enhance the performance and satisfaction of remote work for both businesses and individuals. Communication is identified as a crucial aspect in reducing obstacles associated with remote work, as stated by Anka et al., (2020). According to Adisa et al. (2021), it is advisable to prioritize flexibility in order to mitigate the issues associated with remote employment. Granting employees, the autonomy to establish their own work schedules and operate from any location frequently results in heightened productivity and increased engagement (Al-Habaibeh et al., 2021). By giving priority to these characteristics, organizations can ensure that their remote workers are productive, engaged, and successful.

## **Human Resource Development Practices**

Human Resource Development Practices discuss to the systematic and intentional support provided by an organization to its employees in order to acquire or enhance the necessary skills and competencies for their current or future roles. This support aims to develop their overall abilities and unlock their potential for growth. Additionally, it fosters a culture that encourages teamwork and collaboration, thereby increasing employee motivation and alignment with organizational objectives (Shirmohammadi et al., 2022). Traditionally, HRD methods mostly focused on improving technical skills. With the increasing diversity in societies and workplaces, scientists have started exploring the wider dimensions of development that focus on the specific requirements and contributions of individuals from different origins (Li et al., 2023). This shift in thinking has led to the idea that successful HRD methods should be comprehensive, incorporating a diverse array of skills, backgrounds, and viewpoints.

## **Inclusive Leadership**

Inclusive leadership is about a leader's ability to recognize the unique needs of their team members and deliver the right support to help them succeed. Inclusive leaders encourage diverse perspectives and ensure that employees feel appreciated, respected, and empowered to perform at their best (Fang, 2019). Researchers in this matter have emphasized important appearances of inclusive leadership, including empathy, transparent communication, and a devotion to fairness. Inclusive leaders are standard as catalysts for innovation and enhanced

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decision-making developments by recognizing and valuing differences in origins, experiences, and viewpoints (Almohtaseb et al., 2020).

## **Meaningful Work**

Meaningful work, according to Byrd (2022), is considered by employees feeling a logic of value and obligation for their normal efforts, as well as a joining between their working aims and personal drives. As to the findings of Müller et al. (2019), meaningful work is characterized by its arrangement with an individual's essential values, beliefs, and ideals. When employees see that their work bring into line with their personal values, they are more inclined to perceive it as significant.

## **Work Life Balance**

Work-life balance states to the distribution of time based on an individual's own preference in order to attain a pleasant agenda for family, work, and other happenings such as relaxation or frivolous pursuits (Felstead & Henseke, 2017). The literature widely examines the inspiration of corporate policies and practices on work-life balance. Researchers analyze the influence of digital connectivity on limits, the capacity of distant work to improve adaptability, and the difficulties linked to uninterrupted connectivity (Parham & Rauf, 2020).

## **Impact of HRD Practices on Remote Work Challenges**

Remote work has qualified noteworthy development in latest years, however, it presents its own set of challenges. (2021, Al-Habaibeh et al.). Gratefully, there are numerous concerns that can help improve these issues and augment the efficiency and gratification of both businesses and employees when it comes to remote work. Consistent check-ins and virtual meetings are vital for keeping everyone knowledgeable about the progress of the project (Byrd, 2022). Collings et al. (2021) suggest that technology has the potential to decrease fences related with remote work.

Flexibility in the workstation can greatly advantage employees by letting them to find a improved balance between their work life and personal life. This, in turn, can help to lessen stress and avert exhaustion (Vahdat, 2022). In addition, the study examines effective strategies for human resource development, the significance of meaningful work, and achieving work-life balance in order to address challenges faced by remote workers.

## **Impact of Inclusive Leadership on Remote Work Challenges**

(Almohtaseb et al., 2020) Inclusive leadership is essential for addressing population-wide collective challenges. The ability of leaders to bring their teams together around common

goals and the strength of the organization's relationships are the two most vital factors in defining its success (Antonacopoulou & Georgiadou, 2021). According to Ganon-Shilon et al. (2022), inclusive leadership advocates prioritize cooperative and mutual draws over obsolete ranked ones. Li et al. (2022) looked at how ethical leadership affects performance in various work settings, including ones where workers are physically apart. Similarly, Pimenta de Devotto et al. (2022) argued that a more welcoming and inclusive leadership style makes remote work easier by making the workplace more like a home away from home for employees. A leader in a distant setting must have certain characteristics, and these must be understood.

### **Impact Of Meaningful Work On Remote Work Challenges**

The concept of "meaningful work" has flashed extensive disagreement due to the varied clarifications of its joining to HRD. According to Byrd (2022), the COVID-19 widespread has heightened the inclination towards remote work, which has been progressively favored in recent years. In their study, Pimenta de Devotto et al. (2022) found that employees who had a clear sense of purpose in their work exhibit higher levels of engagement, productivity, and overall happiness. According to Xxx et al. (2020), meaningful work can enhance the sense of community and shared purpose among remote workers, leading to increased connection and engagement with their work and colleagues. Sullivan (2006) suggests that leaders in a remote workforce should motivate and assist each person in performing their utmost effort. According to Pimenta de Devotto et al. (2022), employees' sense of purpose can be nurtured in work environments characterized by closeness, inclusion, and unity. By engaging in meaningful work, remote workers experience increased connectivity, engagement, and fulfillment in their professional endeavors.

### **Impact Of Work Life Balance On Remote Work Challenges**

Remote work has developed in admiration because it gives employees more independence and liberty at work, according to Spagnoli et al. (2021). Remote work presents sole problems, for example balancing individual and capable duties (Shirmohammadi et al., 2022). Remote employment often grounds people to desertion individual and professional duties. Jämsen et al. (2022) originate that after a hard week, frequent workers were unfortunate with their family promises. Home-based workers with long hours are more likely to have work-family subjects. HR rule should let remote workers set their own hours. Non-traditional remote workers with more agenda flexibility have less work-family problems during epidemics

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(Gibbs et al., 2021).

Bulinska-Stangrecka et al. (2021) initiate that telecommuters had less work-family struggle. Orderly work-life skirmish assessment led to this discovery. The fluctuating assumptions of various research propose that several overruling and controlling factors influence the penalties of remote employment. As per Budumuru et al. (2020), some remote workers work energetically on weekends and holidays. Remote work experiments can be alleviated by balancing work and individual life. Corporations that highlight work-life balance are more probable to appeal and keep able workers and make a happy, beneficial workplace.

## Conceptual Framework

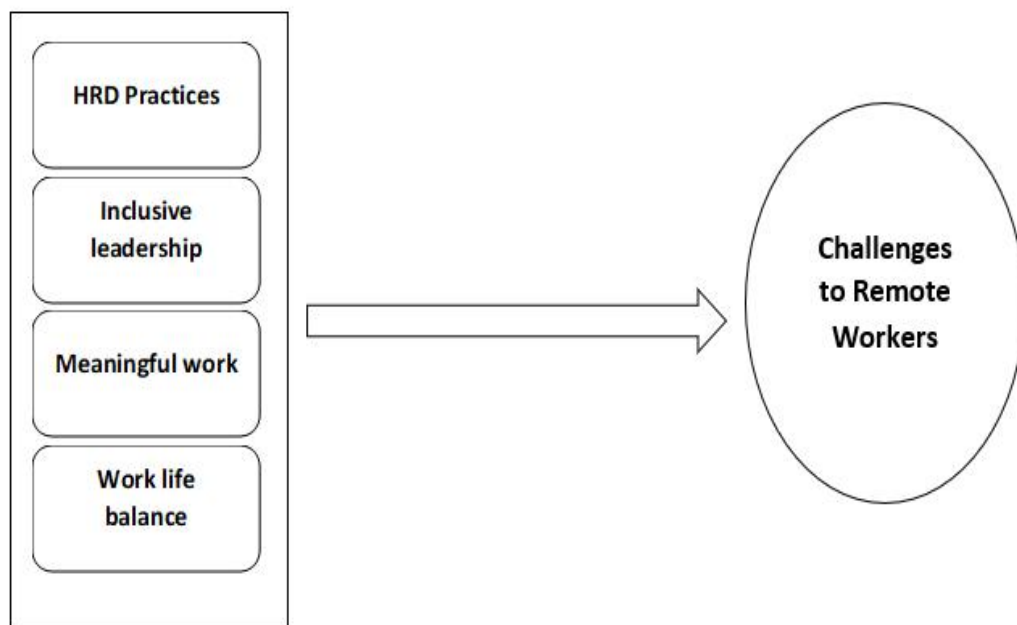


Figure 3. 1 Proposed Conceptual framework

Table 3.1 Variables Involved in Current Study

#	Category	Variables
01	Dependent Variable	Challenges to remote workers
02	Independent Variable	HRD practices Inclusive leadership Meaningful work Work life balance

## Hypotheses Development

Based on the shared theoretical framework this study formulated following hypotheses:

H1: HRD Practices has an important influence on challenges to remote workers.

H2: Inclusive leadership has a major influence on challenges to remote workers.

H3: Meaningful work has a major influence on challenges to remote workers.

H4: Work life balance has an important influence on challenges to remote workers.

## Hypothesized Framework

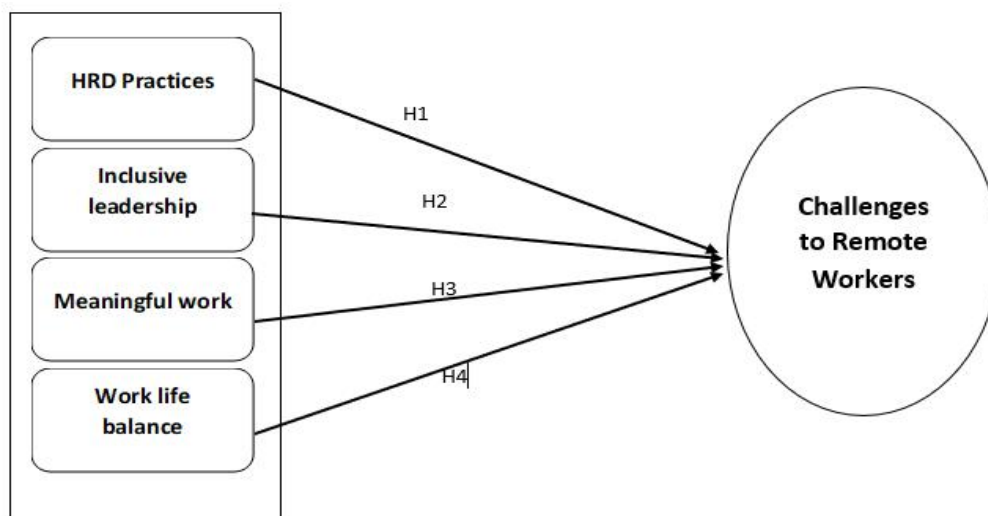


Figure 3. 2 Hypothesized framework

## Research Methodology

This research is grounded on the positivist paradigm due to its utilization of quantitative techniques, which are the most suitable approach for examining the connection between the key variables in the present research. The study specifically targeted remote workers employed by different IT organizations. An expedient sampling methodology is employed. This study utilized a sampling approach that involved selecting respondents who were in close proximity to the researcher to be included in the sample. The number of respondents in the sample is 208. It offers a straightforward and efficient method of collecting the applicants' viewpoints, answers, and evaluations. A standardized and consistent questionnaire will be utilized to gather data from participants. We collected data from the following IT organizations: The companies mentioned are Systems Limited, Devsinc, NetSol, Confiz, and NBit Softwares.

This investigation entailed the development of a survey comprising six distinct sections. Respondents have the option to directly inquire with the researcher if they have any inquiries.

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Section 2 details the criteria that participants must meet prior to the commencement of the survey. Sections 3–6 pertain to the measurement of structures. The independent and dependent variables are correlated with a diverse range of commodities. Five-point The Likert scale with a range of 1 (strongly disagree) to 5 (strongly agree), is employed toward evaluate the degree of concurrence or discordance with a certain concept. The survey comprises 32 questions that can be answered using predetermined response options. The main statistical analysis techniques employed for data analysis include confirmatory factor analysis, reliability investigation, descriptive statistics, normality testing, correlation analysis, and multiple regression analysis.

## Result and Discussion

### Factor Analysis

**Table 5.1: Confirmatory Factor Investigation/Analysis**

Communalities		
	Original	Extraction
HRDP1	1.00	.75
HRDP2	1.00	.65
HRDP3	1.00	.72
HRDP4	1.00	.77
HRDP5	1.00	.82
HRDP6	1.00	.66
HRDP7	1.00	.78
HRDP8	1.00	.77
HRDP9	1.00	.81
IL1	1.00	.75
IL2	1.00	.94
IL3	1.00	.96
IL4	1.00	.94

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IL5	1.00	.88
MW1	1.00	.91
MW2	1.00	.65
MW3	1.00	.62
MW4	1.00	.77
WLB1	1.00	.82
WLB2	1.00	.95
WLB3	1.00	.91
WLB4	1.00	.92
WLB5	1.00	.87
WLB6	1.00	.91
CRW1	1.00	.81
CRW2	1.00	.76
CRW3	1.00	.73
CRW4	1.00	.68
CRW5	1.00	.85
CRW6	1.00	.62
CRW7	1.00	.69
CRW8	1.00	.72

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Extraction Method: Principal Component Investigation/Analysis.

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HRDP = HRM development practices; IL= Inclusive Leadership; MW=Meaningful work;  
WLB= Work life balance; CRW= Challenges to remote workers.

A table displays groups before and after abstraction by Principal Component Analysis (PCA) for various variables. Communities regulate how extracted processes affect variables. The "Original" column communalities were 1.00 before extraction, representing total

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difference in each variable. After extraction, communalities show variance in the "Extraction" column. Close to 1.00 indicates variance retention.

After extraction, HRDP1, HRDP2, HRDP3, and HRDP4 display high communalities of 0.72 to 0.82, representing that the mined modules clarify a lot of their modification. However, variables like MW2 and MW3 show lower communalities after extraction, signifying lower factor loadings or dataset correlations may root them to align less with the removed components. The communalities validate how positively the PCA lowers dimensionality while conserving as much variance as possible from the innovative variables. Variance holding improves with higher communalities, showing that extracted components reflect data configuration.

## Reliability Analysis

**Table 5.2: Reliability Analysis of Survey Instrument**

Variable	Cronbach's Alpha
Challenges to Remote Workers	.77
Human Resource Development (HRD)Practices	.81
Inclusive Leadership	.75
Meaningful Work	.84
Work Life Balance	.79

Table 5.2 spectacles the results of a reliability analysis approved out on a survey tool consisting of five variables. The analysis proves acceptable to excellent reliability across the variables, as showed by Cronbach's Alpha values of .77 for Challenges to Remote Workers, .81 for Human Resource Development Practices, .75 for Inclusive Leadership, .84 for Meaningful Work, and .79 for Work Life Balance. The results designate that the examination gadget successfully gathers reliable answers about the challenges met by remote workers.

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## Demographic Analysis

### Gender Profile of Respondents

Table 5.3: Gender Profile of Respondents

Demographic variable	Frequency	Percent	Valid Percent	Cumulative Percent
Female	89	46.5	46.5	46.5
Male	115	53.5	53.5	100.0
Total	204	100.0	100.0	

The table delivers demographic data concerning the distribution of gender, based on a total sample size of 204 individuals. Out of the total contributors, 89 individuals, which accounts for 46.5% of the sample, identify as female. On the other hand, 115 persons, making up 53.5% of the sample, identify as male. These statistics suggest a somewhat greater percentage of males in the sample. The table clearly presents the gender distribution, showing that females make up over 50% and males slightly over 50% of the questioned population.

### Age Profile of Respondents

Table 5.4: Respondents Age Profile

Age				
	Frequency	Percent	Valid Percent	Cumulative Percent
20-29	83	40.9	40.9	40.9
30-39	99	48.7	48.7	89.6
40-49	20	9.9	9.9	99.5
above 50	2	.5	.5	100.0
Total	204	100.0	100.0	

The table describes that the largest proportion of respondents, secretarial for 48.7% of the model, falls within the age range of 30-39. This is trailed by individuals aged 20-29, who make up 40.9% of the sample, and those aged 40-49, who constitute 9.9%. The portion of respondents above the age of 50 is the smallest, accounting for only 0.5% of the whole sample.

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## Educational Qualification of Respondents

Table 5.5 Educational Qualification Respondents

	Education			
	Frequency	Percent	VP	CP
Certification	29	16.4	15.3	18.3
Masters	130	69.8	67.8	71.1
Graduation	40	16.4	13.8	92.9
Post-Graduation	5	2.4	3.1	100.0
Total	204	100.0	100.0	

The table shows data concerning the educational attainment of a group of individuals, classified into four categories. The VP (Valid Percentage) and CP (Cumulative Percentage) columns offer further visions into the delivery of educational attainment within the sample. In general, the majority of people have attained a Master's degree (130 individuals, 69.8%), followed by Graduation (40 individuals, 16.4%), Certification (29 individuals, 16.4%), and Post-Graduation (5 individuals, 2.4%). The VP column represents the amount of participants in each category, whereas the CP column shows the total proportion of participants up to that category. This data offers a brief summary of the educational makeup of the questioned population, showing a greater proportion of individuals with Masters Degrees compared to other educational levels.

## Working Position

Table 5.6 Respondents Designation Level

	Designation Level			
	Frequency	Percent	Valid Percent	Cumulative Percent
Administrative	91	44.5	44.5	44.5
Middle level employees	88	43.0	43.0	87.5
New employees	12	6.0	6.0	93.5
Other	13	6.5	6.5	100.0
Total	204	100.0	100.0	

The table shows data concerning the delivery of employees based on their designation levels within a precise organization. Most employees are classified as either Administrative or Middle level, making up 44.5% and 43.0% of the workforce, respectively. This proposes a

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reasonable distribution of capable and transitional workers throughout the company. The fraction of new employees is 6.0%, representing a stable drift of new talent incoming the workforce. The residual 6.5% fall under the group of "Other," surrounding particular duties or exclusive designations that are not involved in the primary categories. In summary, the chart provides a brief indication of the grading inside the firm, showcasing the many levels of worker positions and importance the various makeup of the staff.

## Descriptive Analysis

**Table 5.7 Descriptive Statistics**

Descriptive Statistics					
	N	Min.	Max.	Mean	SD
Gender	204	1.00	2.00	1.46	.59
Age	204	1.00	4.00	1.60	.76
Education	204	1.00	4.00	2.69	.74
Experience	204	1.00	23.00	2.91	1.44
Designation Level	204	1.00	4.00	1.54	.93

The table shows descriptive statistics for a dataset of 204 observations across several demographic and professional factors. The data reveals that Gender is distributed into two categories, with values reaching from 1 to 2. A value of 1 may propose male, while a value of 2 denotes female. The average value for Gender is 1.46, with a standard deviation of 0.59. Age is measured on a statistical scale going from 1 to 4, with an average value of 1.60 and a quantity of variability known as the standard deviation of 0.76. The education levels span from 1 to 4, with a mean of 2.69 and a standard deviation of 0.74. The series of experience is from 1 to 23 years, with an average of 2.91 years and a standard deviation of 1.44 years. The Designation Level, which series from 1 to 4, has an average of 1.54 and a standard deviation of 0.93. These statistics offering a concise summary of how the dataset is spread out and what the typical values are for these variables. They help in understanding the demographic and professional qualities of the sample group.

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## KMO and Bartlett's Test

Table 5.8 KMO and Bartlett's test

KMO and Bartlett's Test			
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.			
			.77
Bartlett's Test of Sphericity	Approx. Chi-Square		310.10
	Df		5
	Sig.		.00

The table displays the outcomes of the Kaiser-Meyer-Olkin (KMO) Measure of Sampling Adequacy and Bartlett's Test of Sphericity. The KMO statistic, which has a value of 0.77, signifies that the sample is sufficient for carrying out factor analysis. A score approaching 1 indicates a stronger suitability for factor analysis, indicating that the variables involved in the analysis are highly correlated with each other. The Bartlett's Test of Sphericity is used to determine if the correlation matrix meaningfully deviates from an identity matrix, which indicates the presence of interrelationships among the variables. The test statistic in this instance resulted in an estimated chi-square value of 310.10, with 5 degrees of freedom, and a statistically significant p-value of .00. This recommends that the correlation matrix is significantly distinct from an identity matrix, which delivers evidence for the appropriateness of the data for factor analysis. In summary these results indicate that the dataset is appropriate for doing extra exploratory factor analysis, since it fulfills the necessary assumptions for this statistical method.

## Normality Test

Table 5.9: Normality Test

	Descriptive Statistics			
	Skewness		Kurtosis	
	Statistic	Standard error	Statistic	Standard error
HRD Practices	.03	.13	-.74	.25

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Inclusive Leadership	-.16	.13	-.47	.25
Meaningful work	-.76	.13	.27	.25
Work Life Balance	-.51	.13	.43	.25

The table shows descriptive data for four variables: HRD Practices, Inclusive Leadership, Meaningful Work, and Work Life Balance. Skewness quantifies the lack of symmetry in the distribution of each variable, where positive values show a distribution that is skewed to the right and negative values show a distribution that is skewed to the left. As an illustration, HRD Practices display a small positive skewness (0.03), indicating a distribution that is slightly skewed to the right. In contrast, Meaningful Work exhibits a significant negative skewness (-0.76), suggesting a distribution that is skewed to the left. Kurtosis quantifies the degree of peakedness in a dissemination, where positive values specify a more marked highest (leptokurtic) and negative values designate a less pronounced highest (platykurtic) comparative to a normal circulation. Within this specific setting, all variables display negative kurtosis values, representing that their distributions are substantially compliment when likened to the normal distribution.

## Multicollinearity Test

**Table 5.10: Multicollinearity Analysis**

Coefficients	Collinearity Statistics	
	Tolerance	VIF
Human Resource Development Practices	.77	1.32
Inclusive Leadership	.49	1.55
Meaningful Work	.49	1.56
Work Life Balance	.61	1.41

Dependent Variable: Challenges to Remote Workers

The table shows coefficients and collinearity data for variables related with the problems encountered by those who work remotely. The coefficients represent the degree of correlation

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among each independent variable and the dependent variable, which is "Challenges to Remote Workers." Collinearity statistics, such as tolerance and VIF (Variance Inflation Factor), are used to evaluate the presence of multicollinearity between independent variables. Tolerance levels greater than 0.1 imply a low level of collinearity, whereas VIF values below 10 reflect little doubts with multicollinearity. Within this particular framework, the concepts of "Human Resource Development Practices," "Inclusive Leadership," "Meaningful Work," and "Work Life Balance" demonstrate moderately favorable connections with the difficulties encountered by remote workers, while maintaining a relatively low level of collinearity among them. This indicates that while these issues contribute to hitches for remote workers, they do so distinctly without considerably amplifying each other's impacts, enabling a more precise comprehension of the elements that influence obstacles in distant work.

## Correlation Analysis

Table 5. 11: Correlation Analysis

	Mean	SD	1	2	3	4	5
CRW	3.82	.39	1				
HRDP	3.63	.34	.44**	1			
IL	3.60	.29	.26**	.47**	1		
MW	3.74	.36	.13**	.28**	.54**	1	
WLB	3.77	.33	.16**	.22**	.57**	.44**	1

Table 5.11 presents the results of the correlation analysis for Crisis Response. There are strong positive associations between CRW and HRDP ( $r = .44$ ,  $p < .01$ ), IL and HRDP ( $r = .47$ ,  $p < .01$ ), IL and MW ( $r = .54$ ,  $p < .01$ ), MW and CRW ( $r = .28$ ,  $p < .01$ ), and MW and WLB ( $r = .57$ ,  $p < .01$ ). These findings suggest that there are connections between organizational characteristics that affect employee well-being and organizational effectiveness.

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## Hypotheses Analysis

**Table 5.12:** Regression Analysis for Challenges to remote workers

	Dependent Variable		
	Challenged to remote work		
Predictors	B	R <sup>2</sup>	Δ R <sup>2</sup>
Human Resource Development(HRD) Practices	.22***	.56***	.67***
Inclusive Leadership	.32***	.64***	.69***
Meaningful work	.16***	.43***	.59***
Work-life balance	.21***	.53***	.57***

The results of a regression analysis examining the problems met by remote workers are showed in Table 5.12. The dependent variable in this research is the level of challenge practiced. The table presents the predictors, their regression coefficients (B), the coefficient of determination (R<sup>2</sup>), and the change in R<sup>2</sup> (ΔR<sup>2</sup>) for each predictor. Each analyst shows a separate aspect of the work environment that could possibly impact the problems met by remote workers. The variables examined in the search contain of Human Resource Development (HRD) Practices, Inclusive Leadership, Meaningful Work, and Work-life Balance. The regression coefficients (B) signify the magnitude and direction of the suggestion among each forecaster and the degree of strain encountered by distant workers. All predictors display statistically important correlations with the dependent variable, as indicated via the presence of asterisks (\*\*\*).

Additionally, the coefficient of resolve (R<sup>2</sup>) offers insight into the extent to which each predictor accounts for the inconsistency in the level of challenge confronted by remote workers. Greater R<sup>2</sup> values indicate a more hearty aptitude of the predictor to predict the dependent variable. Furthermore, the ΔR<sup>2</sup> designates the upsurge in the amount of alteration that is accounted for by including each predictor in the model. This enables understanding of the liberal impact of each predictor in clarifying the problems encountered by remote workers. The regression analysis highlights the significance of several factors, including Human Resource Development (HRD) Practices, Inclusive Leadership, Meaningful Work, and Work-life Balance, in influencing the challenges faced by remote workers. Each matter plays a considerable role in understanding these challenges.

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**Table 5.13: Summary Table of Hypotheses**

H. No.	Hypotheses Statements	Coefficient of Regression
H1	HRD Practices has a important impact on challenges to remote workers.	Accepted
H2	Inclusive leadership has a important effect on challenges to remote workers.	Accepted
H3	Meaningful work has an important effect on challenges to remote workers.	Accepted
H4	Work life balance has a major effect on challenges to remote workers.	Accepted

## Findings

Current study is founded on four hypotheses. According to the first theory, HRD practices significantly influence on remote worker issues. The study supports the hypothesis that HRD performs expressively influence distant workers' value-related challenges ( $\beta=.22$ ,  $p<.001$ ). Budumuru et al. (2020) recognized a connection between good HR practices and remote work efficiency. Remote workers' issues were attained by excellent human resource techniques, according to Delany (2022). Thus, this hypothesis is accepted and the first study objective is met based on past research and theory of work adjustment.

The study's second hypothesis suggests Inclusive leadership affects remote worker challenges. Our regression analysis approves a robust connotation among inclusive leadership and remote work difficulties ( $\beta=.32$ ,  $p<.001$ ). Confirms 2nd hypothesis. Transformational leaders make remote work more delightful and pleasant (Zoonen et al., 2021). After assessing several research on remote work and management styles, it is clear that a expanded leadership style is needed to make remote work calmer and lessen remote workers' problems.

Thus, the second study hypothesis is accepted. Given the above studies, this study's findings are fully maintained by prior research. The third hypothesis expected expressive employment disturbs remote worker matters. Results from the regression table indicate a considerable correlation ( $\beta=.16$ ,  $p<.001$ ) between meaningful work and remote worker challenges. Giving workers expressive work makes them feel valued and decreases home office stress. They become more involved, making their work more stimulating. Carnevale &

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Hatak (2020) originate that exact orders help remote workers. Byrd (2022) originate that setting impacts workers' subjective meaning insight at work. Remote work environments with less supervisor exchanges may have less influence on job significance than workplaces with more regular connections. H4 also well-known that work-life balance touches remote worker issues. By  $\beta = .21$  ( $p = .001$ ). Thus, work-life balance is vital to sinking remote work issues for employees. Hayman (2005) proposes that HR policies and practices should help employees found a work-life balance to maximize employee fulfilment rather than leaving them pooped, displeased, and concerned. A systematic valuation of work-life encounter by Bulinska-Stangrecka et al. (2021) establish that employees who worked more at home had less family-work conflict.

## **Conclusion**

Research has established that using human resource development(HRD) practices, nurturing inclusive leadership, providing meaningful work, and promoting work-life balance can effectively diminish challenges confronted by remote IT professionals in Pakistan. Human resource development happenings are vital for providing remote workers with the essential services for achievement. Steady training, ongoing professional development, and operative mentorship may authorize remote workers and deliver them with the essential tools to overwhelmed difficulties. Moreover, the practice of inclusive leadership plays a vital part in providing remote workers with a logic of provision and inclusion. Leaders who rank real communication, teamwork, and understanding build an environment where remote workers feel contented and supported. Enhanced companionship between team members and reduced feelings of segregation and exclusion contribute to augmented job satisfaction and productivity. Employee assignation is ambitious by meaningful work, regardless of the location. Enhance the enjoyment of remote workers by conveying them hard and meaningful tasks that bring into line with their abilities and purposes. Remote workers display higher levels of inspiration, enthusiasm, and gratification when their work owns a sense of determination. In order to preserve output and well-being, remote workers must efficiently assimilate their effort and individual lives. Accepting flexible work hours, maintaining pure margins among work and personal life, and taking regular breaks and holidays can avoid burnout and improve work-life balance. This improves the job satisfaction of remote workers and decreases stress levels.

Collectively, these elements reduce obstacles for Pakistani IT remote workers. Remote

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workers can flourish and involvement increased efficiency, job satisfaction, and well-being through the application of effective human resource development (HRD), inclusive leadership, meaningful work, and work-life balance. IT companies should promote progress and deliver personalized training programs to provide remote workers with the essential proficiency, tools, and possessions for attaining success. Training in remote communication, time management, virtual collaboration, and cyber security is essential. Promote the acceptance of inclusive leadership styles among leaders to adoptive a sense of inclusion and appointment among remote workers. Regularly collaborating with remote workers, providing those with good response, and counting them in the decision-making process donate to attaining this goal. Encourage diversity and inclusivity to certify remote workers feel appreciated and sufficiently embodied.

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