

STUDY OF THE TEAM DYNAMICS AND CONFLICTS RESOLUTION FOR ENHANCING COLLABORATION AND PERFORMANCE IN PROJECT MANAGEMENT

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Abstract

Effective team dynamics, conflict resolution, and collaboration are crucial for the success of construction projects. Poor communication, lack of trust, and unresolved conflicts can lead to inefficiencies, delays, and cost overruns. Understanding these factors and identifying key elements that influence project performance can improve overall project outcomes. This research aims to examine the impact of team dynamics, conflict resolution strategies, and collaboration on construction project outcomes. The study identifies the most critical factors affecting team performance and provides recommendations for enhancing teamwork and conflict management. A mixed-method approach was used, incorporating both qualitative and quantitative data collection techniques. A structured questionnaire was developed based on an extensive literature review and expert interviews. Data was collected from construction professionals and analyzed using the Relative Importance Index (RII), Analytical Hierarchy Process (AHP), and Statistical Package for the Social Sciences (SPSS) to ensure comprehensive statistical validation. The results indicate that openness in communication (AHP eigenvalue: 0.2566, RII: 0.8407), confidence in roles (AHP eigenvalue: 0.3425, RII: 0.8237), and teamwork (AHP eigenvalue: 0.3408, RII: 0.8068) are the most influential factors in team success. Leadership through effective decision-making (AHP eigenvalue: 0.3365, RII: 0.8102) plays a vital role in achieving project goals. Among conflict types, interpersonal conflicts (AHP eigenvalue: 0.3529, RII: 0.8441) are the most critical and require structured resolution strategies. The study identifies compromise (AHP eigenvalue: 0.2523, RII: 0.8237) as the most effective conflict resolution approach. Moreover, conflict resolution directly impacts project outcomes (AHP eigenvalue: 0.3360, RII: 0.8203), influencing

cost, time, and quality performance. Improving communication, fostering trust, and implementing structured conflict resolution strategies significantly enhance project outcomes in the construction sector. Training (AHP eigenvalue: 0.3397, RII: 0.8542) is found to be the most critical factor in enhancing collaboration. Effective communication (AHP eigenvalue: 0.3391, RII: 0.8441) ensures team alignment, while cost control (AHP eigenvalue: 0.3380, RII: 0.8237) plays a key role in maintaining budget efficiency. The study recommends promoting open communication, structured conflict resolution methods, and focused training programs to strengthen teamwork and collaboration, ultimately leading to better project performance.

1. INTRODUCTION

Team dynamics define how individuals within a group interact, collaborate, and perform. These interactions shape the team's ability to achieve project goals. Effective team dynamics lead to improved collaboration, problem-solving, and decision-making (West, 2021). In project management, diverse teams often encounter unique challenges due to differences in cultural backgrounds, skills, and perspectives. These differences, if not managed well, can hinder team performance. Strong team dynamics enable clear communication and mutual trust. Teams with positive dynamics share ideas and solve problems collectively. Research shows that well-functioning teams have higher chances of completing projects on time and within budget (Salas et al., 2019). However, poor dynamics, such as a lack of trust or unresolved conflicts, reduce efficiency and increase project risks (Edmondson, 2018).

Team leaders play a crucial role in shaping dynamics. They influence how members communicate and resolve issues. Leaders who foster collaboration and inclusivity create teams that are better equipped to handle challenges (Turner et al., 2022).

Conflict arises when individuals or groups perceive incompatibilities in goals or actions. In project teams, conflicts often occur due to differences in work styles, priorities, or resource allocation. Conflict in project teams can take two primary forms: task conflict and relationship conflict (Jehn & Bendersky, 2021).

Task conflict relates to disagreements about project goals or methods. It can benefit teams by encouraging critical thinking and innovation (DeChurch & Marks, 2020). When managed effectively, task conflict helps refine strategies and improve decision-making (O'Neill et al., 2021).

However, if left unresolved, it can lead to delays and resource wastage.

Relationship conflict, rooted in personal differences, harms team cohesion and productivity. It creates a hostile environment where team members avoid collaboration (Amason & Schweiger, 2020). Studies confirm that unresolved relationship conflict reduces team morale and increases turnover rates (Runde & Flanagan, 2022). Effective conflict management is crucial to prevent such issues.

Team dynamics and conflict resolution significantly influence project outcomes. Projects with cohesive teams and constructive conflict management are more likely to succeed (Kozlowski & Ilgen, 2021). Teams with positive dynamics align better on goals and manage resources efficiently. In contrast, dysfunctional dynamics often result in poor decision-making and project delays (Hackman, 2020).

Conflict management helps maintain focus on objectives. Teams that address conflicts early minimize disruptions. Researchers highlight that unresolved conflicts often lead to budget overruns and quality issues (Wall & Callister, 2021). Addressing both task and relationship conflicts enhances teamwork and project delivery (Pelled et al., 2021).

2. LITERATURE REVIEW

Team dynamics influence how individuals interact and collaborate in projects. Positive dynamics improve communication, trust, and productivity. Teams with good dynamics perform better and meet project goals more effectively. Studies show that cohesive teams achieve higher efficiency and innovation than those with poor dynamics (Hackman, 2020).

Leadership significantly shapes team dynamics. Transformational leaders encourage collaboration and foster open communication. This approach creates stronger bonds among team members (Turner et al., 2022). On the other hand, ineffective leadership weakens trust and increases conflicts.

Diverse teams also face challenges in achieving alignment due to differences in work styles and communication preferences (Salas et al., 2019).

Organizational culture plays a vital role in shaping team behavior. Supportive environments enhance psychological safety, allowing members to share concerns openly. Teams that feel safe are more likely to resolve conflicts constructively and focus on achieving project objectives (Edmondson, 2018). Strong team dynamics not only boost collaboration but also reduce the risks of delays and misunderstandings.

3. METHODOLOGY

In the gathering of both quantitative and qualitative data, a mixed method approach will be used, and

the research problem will be comprehensively understood. The flow chart below describes the detailed research methodology.

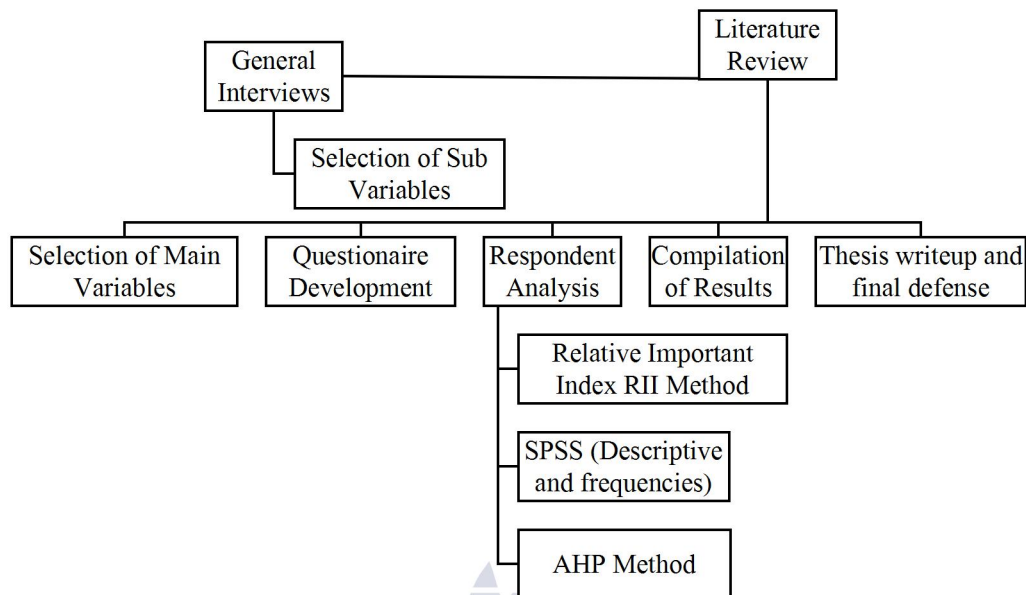


Figure 1: Flow chart of Research Methodology

4. RESULTS

The analysis of data was collected through the questionnaire distributed via Google Forms. The study focuses on the responses provided by professionals in the construction industry in

Pakistan. The data is analyzed using Relative Importance Index (RII), Analytical Hierarchy Process (AHP), and statistical methods through SPSS. The findings provide insights into team dynamics and conflict resolution strategies in project management.

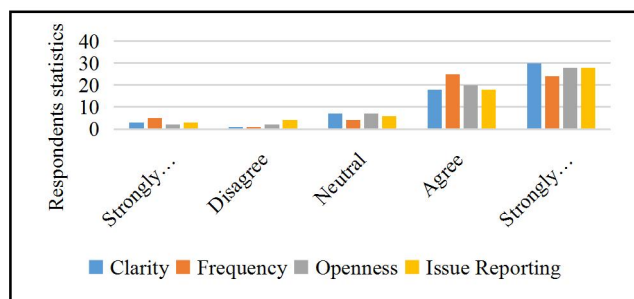


Figure 2: Respondent Analysis of Communication

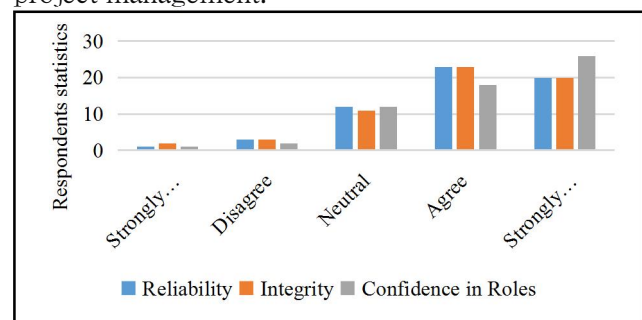


Figure 3: Respondent Analysis of Trust

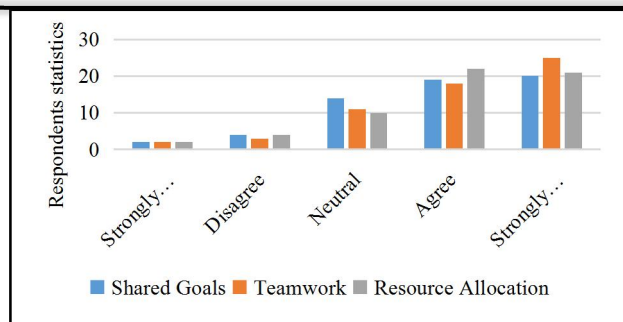


Figure 4: Respondent Analysis of Collaboration

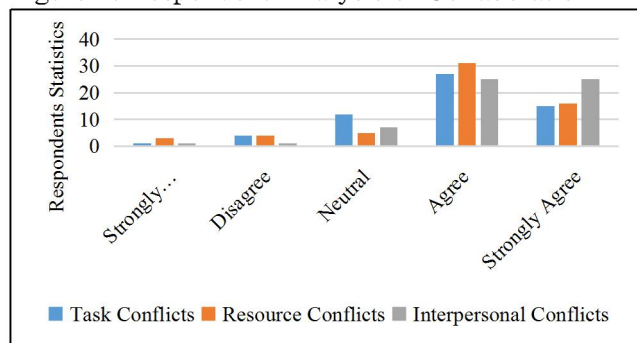


Figure 6: Respondent Analysis of Types of Conflicts

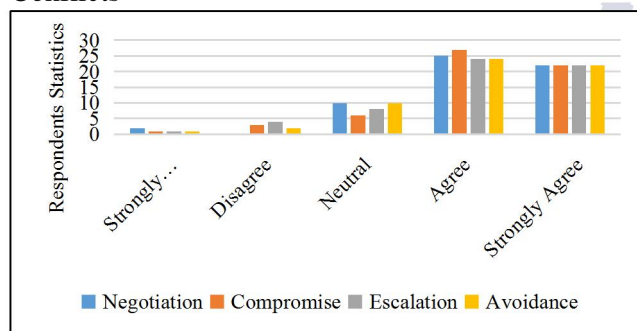


Figure 7: Respondent Analysis of Conflict Resolution Approaches

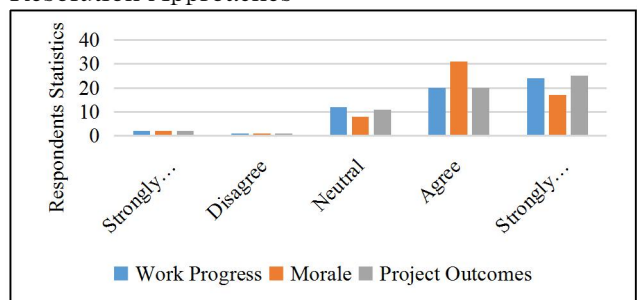


Figure 8: Respondent Analysis of Impact of Conflict Resolution

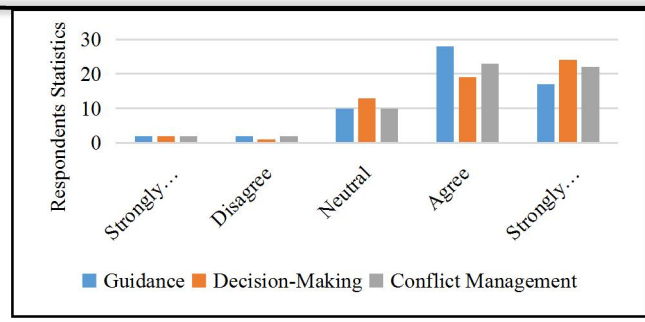


Figure 5: Respondent Analysis of Leadership

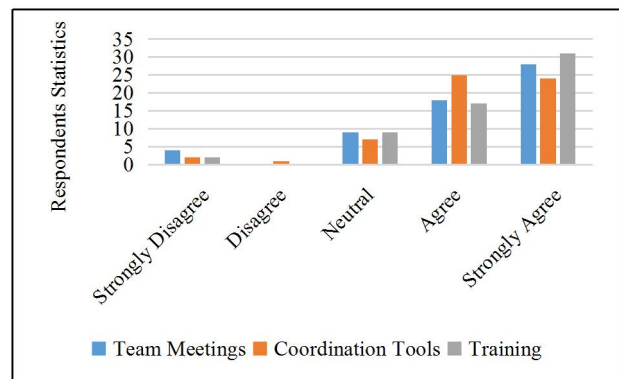


Figure 10: Respondent Analysis of Factors Influencing Team Performance

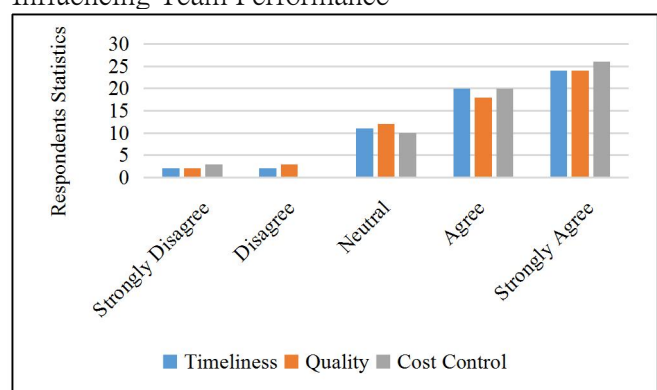


Figure 11: Respondent Analysis of Project Outcomes

Figure 9: Respondent Analysis of Collaborative Practices

Relative Important Index RII

Relative Importance Index (RII) is a tool for measurement and ranking of the variables. They get to decide the relevance of the work in research.

In this research, RII is employed to classify factors into key factors. These aspects affect issues to do with teams, conflicts in general and results of projects.

RII provides a clear priority list. It helps researchers focus on the most critical elements. This ensures better decision-making and targeted solutions.

In construction projects, RII highlights areas requiring attention. It supports efforts to enhance collaboration and resolve conflicts.

Using RII improves the accuracy of findings. It makes the research more effective and practical for real-world applications.

The formula for RII is:

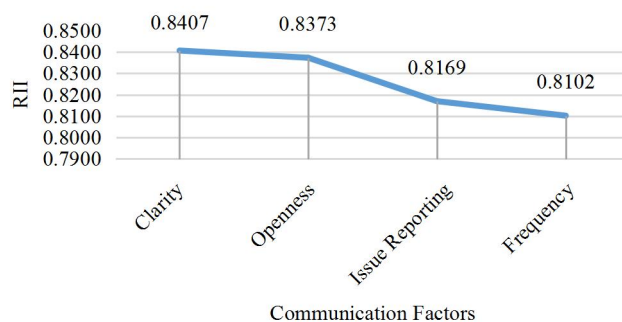


Figure 12: RII Rank of Communication Factors

$$RII = \frac{\Sigma(W \times N)}{A \times N}$$

In this formula, W represents the weight assigned to each response. It ranges from 1 for Strongly Disagree to 5 for Strongly Agree.

A represents the maximum possible weight. In this study, A equals 5. N represents the total number of respondents. RII quantifies the relative importance of key variables. These variables include communication, trust, collaboration, and leadership. It aggregates and normalizes survey responses to provide clear insights.

This method ranks variables systematically. It helps project managers focus on the most critical areas. RII simplifies data analysis by converting qualitative responses into numerical values. This makes interpretation and comparison easier.

Using RII ensures the research identifies the most significant factors. It highlights areas that impact team performance the most. This supports better decision-making and prioritizes areas needing immediate attention.

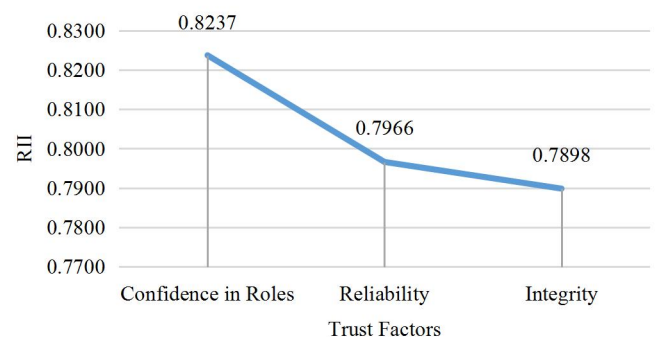


Figure 13: RII Rank of Trust Factors

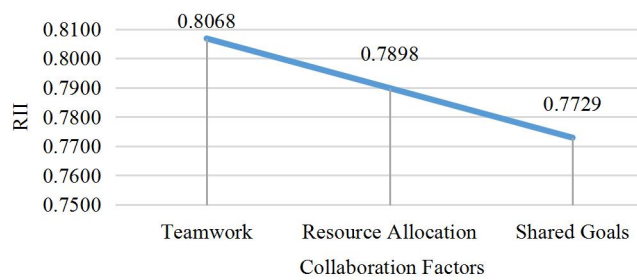


Figure 14: RII Rank of Collaboration Factors

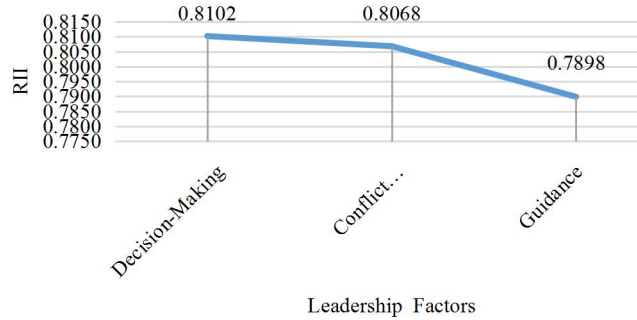


Figure 15: RII Rank of Leadership Factors

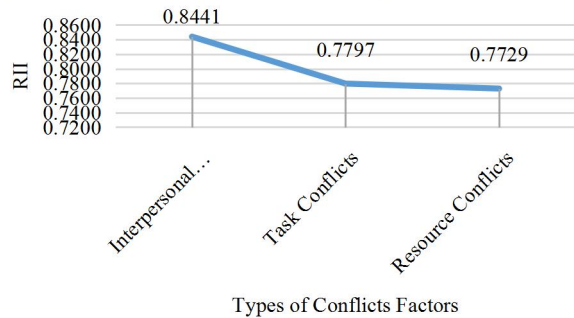


Figure 16: RII Rank of Types of Conflicts Factors

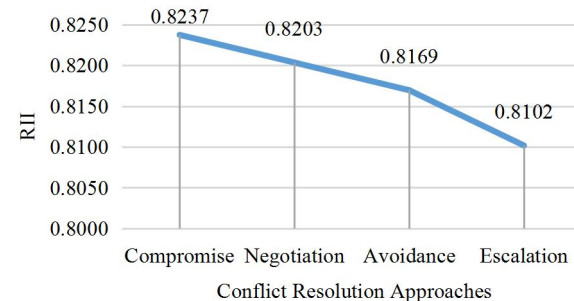


Figure 17: RII Rank of Types of Conflict Resolution Approaches Factors

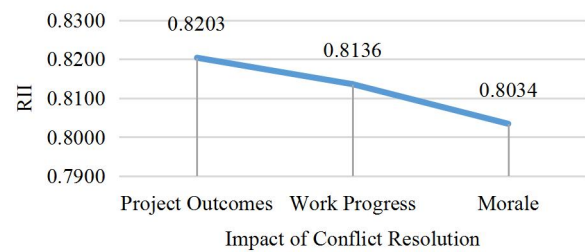


Figure 18: RII Rank of Types of Impact of Conflict Resolution

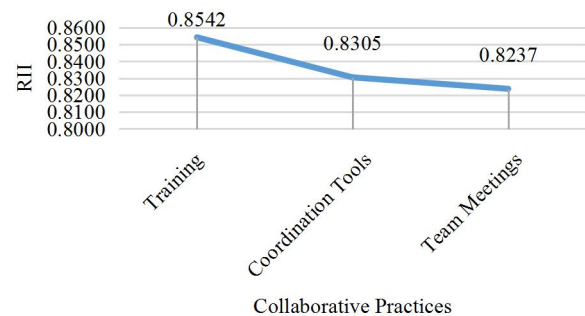


Figure 19: RII Rank of Types of Collaborative Practices

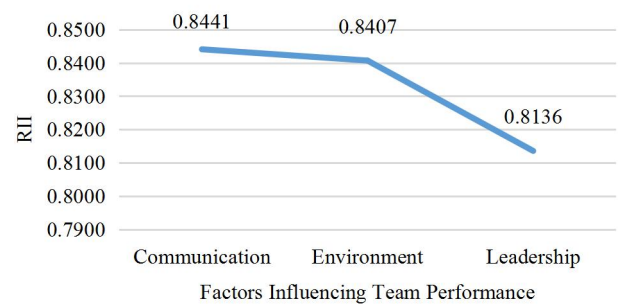


Figure 20: RII Rank of Factors Influencing Team Performance

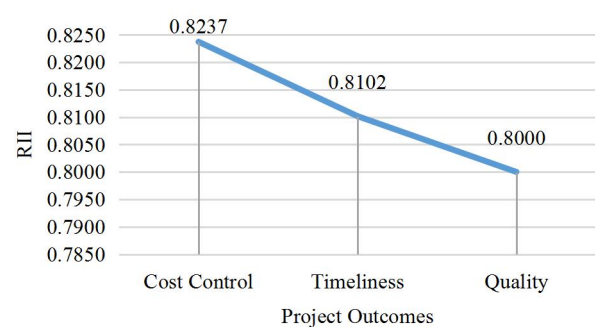


Figure 21: RII Rank of Project Outcomes

Analytical Hierarchy Process (AHP)

Applying AHP made the study more robust. It also supported the priorities like communication, leadership and collaboration are critical for enhancing the performance in construction projects. The integration of RII and AHP was performed with the aim of making the study useful and based on a strong foundation through offering recommendations for success.

These findings point clearly to areas which could be utilized to improve team dynamics. These aspects if well

addressed will assist teams in enhancing their co-ordination, managing conflict and producing better project results. Emphasizing on openness, clarity, confidence, teamwork and decision making enhances the project success rate.

Table 1: AHP Analysis of Team Dynamics in Construction Projects

A-1 Communication	Clarity	Frequency	Openness	Issue Reporting			
Geometric Mean	3.988	3.775	4.005	3.840			
Clarity	1.000	1.057	0.996	1.039			
Frequency	0.946	1.000	0.942	0.983			
Openness	1.004	1.061	1.000	1.043			
Issue Reporting	0.963	1.017	0.959	1.000			
A-1 Communication	Clarity	Frequency	Openness	Issue Reporting	Row Sum	Eigen Value	
Clarity	4.000	4.226	3.983	4.155	16.36	0.256	
Frequency	3.786	4.000	3.770	3.932	15.48	0.242	
Openness	4.017	4.244	4.000	4.172	16.43	0.257	
Issue Reporting	3.851	4.069	3.835	4.000	15.75	0.246	
					64.04	1.000	
A-1 Communication	Clarity	Frequency	Openness	Issue Reporting	Row Sum	Eigen Value	Check
Clarity	64.000	67.623	63.733	66.474	261.830	0.256	0.000
Frequency	60.572	64.000	60.319	62.913	247.804	0.242	0.000
Openness	64.268	67.906	64.000	66.753	262.927	0.257	0.000
Issue Reporting	61.618	65.105	61.360	64.000	252.084	0.246	0.000
					1024.64	1.000	
A-2 Trust	Reliability	Integrity	Confidence in Roles				
Geometric Mean	3.837	3.766	3.971				
Reliability	1.000	1.000	1.000				
Integrity	0.982	1.000	0.948				
Confidence in Roles	1.035	1.054	1.000				
A-2 Trust	Reliability	Integrity	Confidence in Roles	Row Sum	Eigen Value		
Reliability	3.017	3.054	2.948	9.019	0.333		

Integrity	2.945	2.982	2.878	8.804	0.325
Confidence in Roles	3.105	3.144	3.035	9.284	0.342
				27.108	1.000
A-3 Leadership	Guidance	Decision-Making	Conflict Management		
Geometric Mean	3.786	3.877	3.858		
Guidance	1.000	0.977	0.981		
Decision-Making	1.024	1.000	1.005		
Conflict Management	1.019	0.995	1.000		
A-3 Leadership	Guidance	Decision-Making	Conflict Management	Row Sum	Eigen Value
Guidance	3.000	2.930	2.944	8.874	0.329
Decision-Making	3.072	3.000	3.014	9.086	0.336
Conflict Management	3.057	2.986	3.000	9.043	0.335
				27.003	1.000
A-4 Collaboration	Shared Goals	Teamwork	Resource Allocation		
Geometric Mean	3.668	3.838	3.755		
Shared Goals	1.000	0.956	0.977		
Teamwork	1.046	1.000	1.022		
Resource Allocation	1.024	0.978	1.000		
A-4 Collaboration	Shared Goals	Teamwork	Resource Allocation	Row Sum	Eigen Value
Shared Goals	3.000	2.867	2.931	8.798	0.326
Teamwork	3.139	3.000	3.067	9.206	0.341
Resource Allocation	3.071	2.935	3.000	9.005	0.333
				27.009	1.000
Section A: Team Dynamics in Construction Projects					
Main Variable 1: Communication					
Openness	0.256				
Clarity	0.255				
Issue Reporting	0.246				
Frequency	0.241				
Main Variable 2: Trust					
Confidence in Roles	0.342				
Reliability	0.332				
Integrity	0.324				
Main Variable 3: Collaboration					
Teamwork	0.341				

Resource Allocation	0.333
Shared Goals	0.326
Main Variable 4: Leadership	
Decision-Making	0.337
Conflict Management	0.335
Guidance	0.329

Table 2: AHP Analysis of Conflict Resolution in Construction Projects

Conflict Resolution Approaches	Negotiation	Compromise	Escalation	Avoidance		
Geometric Mean	3.950	3.981	3.896	3.950		
Negotiation	1.000	0.992	1.014	1.000		
Compromise	1.008	1.000	1.022	1.008		
Escalation	0.986	0.979	1.000	0.986		
Avoidance	1.000	0.992	1.014	1.000		
Conflict Resolution Approaches	Negotiation	Compromise	Escalation	Avoidance	Row Sum	Eigen Value
Negotiation	4.00	3.97	4.06	4.00	16.02	0.25
Compromise	4.03	4.00	4.09	4.03	16.15	0.25
Escalation	3.95	3.91	4.00	3.95	15.81	0.25
Avoidance	4.00	3.97	4.06	4.00	16.02	0.25
					64.00	1.00
Conflict Resolution Approaches	Negotiation	Compromise	Escalation	Avoidance	Row Sum	Eigen Value
Negotiation	64.00	63.51	64.89	64.00	256.39	0.25
Compromise	64.50	64.00	65.39	64.50	258.39	0.25
Escalation	63.13	62.64	64.00	63.13	252.89	0.25
Avoidance	64.00	63.51	64.89	64.00	256.39	0.25
					1024.06	1.00
Types of Conflicts	Task Conflicts	Resource Conflicts	Interpersonal Conflicts			
Geometric Mean	3.72	3.69	4.10			
Task Conflicts	1.00	1.00	1.00			
Resource Conflicts	0.99	1.00	0.90			
Interpersonal Conflicts	1.10	1.11	1.00			
Types of Conflicts	Task Conflicts	Resource Conflicts	Interpersonal Conflicts	Row Sum	Eigen Value	
Task Conflicts	3.09	3.11	2.90	9.10	0.33	
Resource Conflicts	2.97	2.99	2.79	8.75	0.32	
Interpersonal Conflicts	3.31	3.33	3.10	9.74	0.35	
				27.59	1.00	
Impact of Conflict Resolution	Work Progress	Morale	Project Outcomes			
Geometric Mean	3.90	3.87	3.93			

Work Progress	1.00	1.01	0.99
Morale	0.99	1.00	0.98
Project Outcomes	1.01	1.02	1.00

Impact of Conflict Resolution	Work Progress	Morale	Project Outcomes	Row Sum	Eigen Value
Work Progress	3.00	3.02	2.97	9.00	0.33
Morale	2.98	3.00	2.95	8.93	0.33
Project Outcomes	3.03	3.05	3.00	9.07	0.34
				27.00110346	1

Section B: Conflict Resolution in Construction Projects

Types of Conflicts

Interpersonal Conflicts	0.352
Task Conflicts	0.329
Resource Conflicts	0.317

Conflict Resolution Approaches

Compromise	0.252
Negotiation	0.250
Avoidance	0.250
Escalation	0.246

Impact of Conflict Resolution

Project Outcomes	0.336
Work Progress	0.333
Morale	0.330

Table 3: AHP Analysis of Collaboration and Performance in Construction Projects

Collaborative Practices	Team Meetings	Coordination Tools	Training		
Geometric Mean	3.874	3.992	4.107		
Team Meetings	1	1	1		
Coordination Tools	1.030	1.000	0.972		
Training	1.060	1.029	1.000		
Collaborative Practices	Team Meetings	Coordination Tools	Training	Row Sum	Eigen Value
Team Meetings	3.090	3.029	2.972	9.091	0.3301
Coordination Tools	3.091	3.030	2.974	9.095	0.3302
Training	3.180	3.118	3.060	9.358	0.3397
				27.545	1.000
Factors Influencing Team Performance	Leadership	Communication	Environment		
Geometric Mean	3.892	4.074	4.050		
Leadership	1.000	0.955	0.961		
Communication	1.047	1.000	1.006		

Environment	1.041	0.994	1.000		
Factors Influencing Team Performance	Leadership	Communication	Environment	Row Sum	Eigen Value
Leadership	3.000	2.866	2.883	8.749	0.3239
Communication	3.140	3.000	3.018	9.158	0.3391
Environment	3.122	2.982	3.000	9.104	0.3370
				27.011	1.000
Project Outcomes	Timeliness	Quality	Cost Control		
Geometric Mean	3.869	3.805	3.917		
Timeliness	1.000	1.017	0.988		
Quality	0.984	1.000	0.971		
Cost Control	1.013	1.029	1.000		
Project Outcomes	Timeliness	Quality	Cost Control	Row Sum	Eigen Value
Timeliness	3.000	3.050	2.963	9.013	0.333
Quality	2.951	3.000	2.914	8.865	0.328
Cost Control	3.038	3.088	3.000	9.126	0.338
				27.004	1.000
Section C: Collaboration and Performance in Construction Projects					
Main Variable 1: Collaborative Practices					
Training		0.339			
Coordination Tools		0.330			
Team Meetings		0.330			
Main Variable 2: Factors Influencing Team Performance					
Communication		0.339			
Environment		0.337			
Leadership		0.3234			
Main Variable 3: Project Outcomes					
Cost Control		0.338			
Timeliness		0.334			
Quality		0.328			

Making attention to these priorities, cooperation increases and organizations' efficiency improves. These touch on aspects such as leadership, environment and timeliness, as well as other supporting aspects that need to progress at an equal pace. The main strategies of management activity that guarantee sustainable development include training, communication, and cost

management. They assist groups in attaining project objectives and continued acceptance by stakeholders. Focusing on such areas helps to create better teams and achieve more stable project results.

SPSS Descriptive Statistics- Quantitative Analysis

In SPSS Descriptive Statistics were done for quantitative analysis, the data sheet was made and the scales was

described for each response. Each variable and sub factors were designated. The table below represents the quantitative analysis done of SPSS software and analysis output obtained as descriptive statistics. This analysis

has been done to verify the manual qualitative analysis RII and AHP.

Table 4: Quantitative Analysis- SPSS Descriptive Statistics

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
A1TDCC	59	1.00	5.00	4.2034	1.06317
A1TDCF	59	1.00	5.00	4.0508	1.15107
A1TDCO	59	1.00	5.00	4.1864	1.00815
A1TDCIR	59	1.00	5.00	4.0847	1.14903
A2TDTR	59	1.00	5.00	3.9831	.95577
A2TDTI	59	1.00	5.00	3.9492	1.02425
A2TDTCR	59	1.00	5.00	4.1186	.96641
A3TDCoSG	59	1.00	5.00	3.8644	1.07411
A3TDCoT	59	1.00	5.00	4.0339	1.06619
A3TDCoRA	59	1.00	5.00	3.9492	1.05738
A4TDLG	59	1.00	5.00	3.9492	.95455
A4TDLDM	59	1.00	5.00	4.0508	1.00728
A4TDLCM	59	1.00	5.00	4.0339	.99942
B1CRTCTC	59	1.00	5.00	3.8644	.93694
B1CRTRC	59	1.00	5.00	3.8983	1.04543
B1CRTCIC	59	1.00	5.00	4.2203	.85234
B2CRCRAN	59	1.00	5.00	4.1017	.92279
B2CRCRAC	59	1.00	5.00	4.1186	.91132
B2CRCRAE	59	1.00	5.00	4.0508	.97244
B2CRCRAA	59	1.00	5.00	4.0847	.91516
B3CRICRWP	59	1.00	5.00	4.0678	.99766
B3CRICRM	59	1.00	5.00	4.0169	.90003
B3CRICRPO	59	1.00	5.00	4.1017	.99473
C1CPCPTM	59	1.00	5.00	4.1186	1.11548
C1CPCPCT	59	1.00	5.00	4.1525	.94346
C1CPCPT	59	1.00	5.00	4.2712	.96187
C2CPFITPL	59	1.00	5.00	4.0678	.99766
C2CPFITPC	59	1.00	5.00	4.2203	.89188
C2CPFITPE	59	1.00	5.00	4.2034	.92438
C3CPPOT	59	1.00	5.00	4.0508	1.02425
C3CPPOQ	59	1.00	5.00	4.0000	1.06674

C3CPPOCC	59	1.00	5.00	4.1186	1.03532
Valid N (listwise)	59				

5. CONCLUSION

Team Dynamics in Construction Projects

The most important factor in communication is **Openness**, with an AHP eigenvalue of 0.2566 and an RII of 0.8407. Openness in communication ensures transparent and accessible communication among all project stakeholders, enabling better alignment and prompt resolution of issues, which contributes significantly to project success. The most important factor in trust is **Confidence in Roles**, with an AHP eigenvalue of 0.3425 and an RII of 0.8237. When team members have confidence in each other's technical and managerial abilities, it fosters trust, encouraging collaboration and efficient task execution. The most important factor in collaboration is **Teamwork**, with an AHP eigenvalue of 0.3408 and an RII of 0.8068. Effective teamwork is essential for overcoming challenges and solving problems, and it plays a critical role in achieving project goals. The most important factor in leadership is **Decision-Making**, with an AHP eigenvalue of 0.3365 and an RII of 0.8102. Timely and transparent decision-making by leadership helps guide the team toward project milestones, resolve conflicts efficiently, and maintain project momentum.

Conflict Resolution in Construction Projects

The most important factor in types of conflicts is Interpersonal Conflicts, with an AHP eigenvalue of 0.3529 and an RII of 0.8441. Interpersonal conflicts among workers, contractors, and engineers are the most disruptive to workflow, highlighting the importance of managing personal dynamics effectively to ensure smooth project execution.

The most important conflict resolution approach is Compromise, with an AHP eigenvalue of 0.2523 and an RII of 0.8237. Compromise is often used to resolve disputes, indicating that finding middle ground through negotiation and mutual agreement is essential for maintaining project progress and team harmony.

The most important impact of conflict resolution is Project Outcomes, with an AHP eigenvalue of 0.3360 and an RII of 0.8203. Effective conflict resolution directly contributes to achieving project objectives such as cost, time, and quality, reinforcing its critical role in project success.

Collaboration and Performance in Construction Projects

The most important factor in collaborative practices is Training, with an AHP eigenvalue of 0.3397 and an RII of 0.8542. Training programs focused on

communication and conflict resolution are essential for improving collaboration among team members and ensuring smoother project execution.

The most important factor influencing team performance is Communication, with an AHP eigenvalue of 0.3391 and an RII of 0.8441. Clear and effective communication among all project stakeholders enhances team efficiency and ensures that everyone is aligned towards achieving common project goals.

The most important factor in project outcomes is Cost Control, with an AHP eigenvalue of 0.3380 and an RII of 0.8237. Good team dynamics and effective collaboration play a vital role in controlling project costs, reducing budget overruns, and ensuring the financial success of the project.

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