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Examination of Major Causes of Disputes and Dispute Resolution Methods Used in the Indian Construction Industry

Suhani Somnath Mali, Harshada Hanmant More, Kishori Kashinath Narale, Vedantika Sarjerao Mane, Saniya Vijaykumar Shinde.

Abstract

This study examines major causes of disputes in the Indian construction industry, such as finance and payment issues, poor work quality, and extra items, as well as common dispute resolution methods like arbitration, negotiation, mediation and litigation. Among this arbitration is widely preferred for its efficiency and confidentiality. The study uses questionnaires to identify and rank these factors, noting that conflicts are inevitable and can cause delays, financial losses, and damage to reputation if not managed effectively. It suggests that while arbitration is a preferred method, new mechanisms are needed for the Indian context. The Indian construction Industry, characterized by its complexity and involvement of multiple stakeholders, is highly susceptible to disputes. These conflicts often arise from factors such as delayed payments, design changes, poor communication, contractual ambiguities and project delays. Such disputes not only affect project cost and time but also hinder overall industry productivity and stakeholders' relationships. understanding the root causes of disputes and adopting effective resolution methods can help enhance project performance, promote fairness, and ensure smoother execution of construction projects in India.

Key words: construction disputes, dispute resolution methods, arbitration, mediation, litigation, negotiation, contract management, breach of contract, cost overruns and delays.

Introduction

The construction industry is one of the largest and most dynamic sectors of the Indian economy, acting as a vital driver of infrastructure growth and national development. It encompasses a wide range of activities, including the construction of buildings, roads, bridges, dams, power plants, and other essential facilities that contribute to the country's social and economic progress. The industry engages a vast network of stakeholders such as owners, contractors, consultants, engineers, suppliers, and government agencies, all of whom work together under complex contractual frameworks. However, despite its contribution and potential, the Indian construction industry continues to face persistent challenges in project delivery, most notably in the form of disputes and conflicts.

Disputes in construction projects have become an almost inevitable part of the project life cycle. They generally arise when there are disagreements between contracting parties regarding issues such as scope of work, design modifications, delays, payment terms, quality of work, and interpretation of contract clauses. The causes can be technical, financial, managerial, or contractual in nature, and they often emerge due to lack

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of communication, poor project planning, improper documentation, or unrealistic expectations. In India, where many construction projects are large- scale, time-bound, and involve multiple layers of subcontracting, even a small misunderstanding or delay can escalate into a significant dispute affecting the entire project's progress and profitability.

The impact of disputes extends far beyond financial losses. They can disrupt project schedules, increase administrative burdens, damage professional relationships, and lead to long-term mistrust among the involved parties. Moreover, unresolved disputes can halt work, invite legal complications, and result in arbitration or litigation that consumes considerable time and resources. In the Indian context, the complexity of contracts, bureaucratic delays, and lack of awareness about efficient dispute resolution mechanisms further worsen the situation. Therefore, understanding the root causes of disputes is essential for preventing conflicts and improving the overall efficiency and productivity of the construction sector.

Traditionally, most disputes in India were resolved through litigation, where the parties approached the court for settlement. However, litigation has several drawbacks such as long procedural delays, high costs, and rigid legal formalities. As a result, the industry has gradually shifted its focus towards Alternative Dispute Resolution (ADR) methods such as arbitration, mediation, conciliation, adjudication, and dispute review boards. These mechanisms are designed to provide faster, fairer, and more flexible outcomes, allowing parties to maintain professional relationships while achieving justice. Arbitration, in particular, has become one of the most preferred methods under standard Indian construction contracts such as those governed by the Central Public Works Department (CPWD) and the National Highways Authority of India (NHAI). However, even ADR methods have their own limitations if not properly managed or if the parties lack technical knowledge and mutual trust.

Over the past decade, the Government of India has taken several initiatives to promote faster dispute resolution, including amendments to the Arbitration and Conciliation Act (1996) and the establishment of Institutional Arbitration Centres. Despite these efforts, the frequency of disputes remains high, indicating that prevention is as important as resolution. Factors such as improved project documentation, transparent communication, effective contract management, and timely decision-making are crucial in minimizing disputes before they arise. Furthermore, awareness and training about modern dispute resolution methods can help construction professionals handle conflicts more effectively.

This paper seeks to examine the major causes of disputes in the Indian construction industry and evaluate the effectiveness of various dispute resolution mechanisms employed to address them. The study aims to identify the patterns and common issues leading to conflicts and assess how current resolution strategies can be improved. By exploring both preventive and curative approaches, this research intends to contribute to a better understanding of dispute management practices and promote a culture of cooperation, fairness, and accountability among stakeholders.

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A comprehensive understanding of dispute dynamics is vital for ensuring the timely and cost- effective completion of construction projects. The outcomes of this study are expected to assist policymakers, contractors, and project managers in developing more efficient frameworks for conflict avoidance and resolution. Ultimately, strengthening the dispute resolution process can enhance project success rates, improve stakeholder relationships, and support the sustainable growth of the Indian construction industry in the years to come.

Literature Review

The construction industry in India is vast and complex, involving multiple stakeholders such as clients, consultants, contractors, and government bodies. This diversity often results in conflicting objectives and misunderstandings that lead to disputes. According to Soni, Pandey, and Agrawal (2017), differences in background, expertise, and perspectives make conflicts almost unavoidable. Similarly, Owolabi et al. (2014) argued that unresolved disagreements hinder the smooth execution of construction projects. Disputes, if not properly managed, can cause time overruns, cost escalations, and damaged relationships among parties.

Major Causes of Disputes

1. Contractual and Documentation Issues

Ambiguous contract clauses, unclear allocation of responsibilities, and incomplete documentation are major causes of disputes in Indian projects. Kumar and Deep (2018) found that vague contract wording and poor record-keeping often create confusion and disagreements during project execution.

2. Variations and Change Orders

Frequent design changes and alterations in project scope are another major source of conflicts. According to Tariq et al. (2023), inadequate communication regarding variations leads to disputes over cost and time adjustments.

3. Payment and Financial Problems

Delayed payments and financial constraints are commonly cited causes of disputes. Ogunbiyi and Afolabi (2020) highlighted that contractors often face cash flow challenges due to late payments from clients, which escalate into claims and conflicts.

4. Delays and Scheduling Issues

Project delays due to poor planning, shortage of materials, or approval bottlenecks are significant contributors. Patel and Sujal (2017) reported that delay-related claims form a large portion of arbitration cases in Indian construction projects.



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5. Design Errors and Site Conditions

Defective designs, poor site investigations, and unforeseen ground conditions frequently cause disputes. Ameh et al. (2010) found that inadequate design coordination is a recurrent reason for cost and time overruns.

6. Poor Communication and Management

Lack of coordination and ineffective communication among project participants often turns small misunderstandings into major disputes (Sabri et al., 2022).

Dispute Resolution Methods in Indian Construction Industry

Negotiation

Negotiation is the most preferred and initial step in resolving disputes, as it helps maintain professional relationships (Cheung & Yiu, 2006). Many contracts include negotiation clauses before moving to formal procedures.

Mediation

Mediation provides a cost-effective and time-saving alternative to arbitration. Nishith Desai Associates (2020) emphasized that mediation and conciliation promote amicable settlements without legal battles.

• Arbitration

Arbitration remains the most widely adopted formal dispute resolution mechanism. It offers confidentiality, finality, and technical expertise. Patel and Sujal (2017) note that arbitration is effective but sometimes suffers from delays due to poor case management.

Litigation

Court proceedings are considered a last resort because they are time-consuming and expensive. Owolabi et al. (2014) suggested that court involvement often occurs only after ADR methods fail.

Research Methodology

1. Research Approach

The study will adopt a Mixed-Method Approach, combining both Quantitative and Qualitative data collection and analysis.

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* Quantitative Component: Used to identify and rank the major causes of disputes and determine the frequency and perceived effectiveness of various Dispute Resolution Methods (DRMs) used in the Indian construction sector.

* Qualitative Component: Used to gain a deeper understanding and contextual insight into why certain causes are prevalent and the experienced challenges/benefits of the different DRMs from industry experts.

2. Research Design

The research design will be Descriptive and Analytical.

- * Descriptive: To systematically describe the most common causes of disputes and the types of DRMs currently employed in the industry.
- * Analytical: To statistically analyse the relative importance of the dispute causes and evaluate the effectiveness, time, and cost associated with different DRMs (e.g., Negotiation, Mediation, Arbitration, Litigation).

3. Data Collection

A. Primary Data Collection

| Method | Type | Target Group | Purpose |

Questionnaire Survey, Quantitative, Project Managers, Contractors, Consultants, Developers, Legal Advisors/Arbitrators. To collect a large dataset for statistical ranking of dispute causes and DRMs.

Expert Interviews, Qualitative, Senior Legal Counsel, Experienced Arbitrators, CEOs/Directors of Construction Firms. To gather in-depth, expert opinions on root causes, policy issues, and the practical implementation/challenges of DRMs.

- B. Secondary Data Collection
- * Review of industry reports (e.g., FIDIC, CIArb, governmental reports).
- * Analysis of contract documents and case studies related to major Indian construction disputes.
- * In-depth Literature Review of academic research on construction disputes in India and globally.

4. Sampling Technique

The study will primarily use a Non-Probability Sampling technique.

* Purposive/Judgmental Sampling: Respondents will be specifically selected based on their proven expertise and direct involvement/experience with construction disputes and their resolution in India. This

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ensures the data collected is relevant and high-quality.

* A minimum sample size will be targeted to ensure statistical significance for the quantitative analysis (e.g., aiming for 100+ valid survey responses and 10-15 detailed expert interviews).

5. Data Analysis Techniques

- A. Quantitative Data Analysis (for Survey Data)
- * Descriptive Statistics: Calculation of Mean, Standard Deviation, and Frequency Distribution to describe the data.
- * Relative Importance Index (RII): Used to objectively rank the identified causes of disputes and DRMs based on the respondents' ratings (e.g., using a 5-point Likert scale).

Where \sum W is the sum of the weightings given by the respondents, A is the highest weight (e.g., 5), and N is the total number of respondents.

- * Inferential Statistics: Using techniques like ANOVA (Analysis of Variance) or Kruskal-Wallis H Test to check if there are significant differences in the perceptions of different stakeholder groups (e.g., Owners vs. Contractors).
- B. Qualitative Data Analysis (for Interview Data)
- * Thematic Content Analysis: Interview transcripts will be analysed to identify recurring themes, patterns, and categories related to the root causes of disputes and the critical success/failure factors of DRMs. This analysis will help triangulate and contextualize the quantitative findings.

6. Reliability and Validity

- * Reliability: The consistency and stability of the measurement instrument (questionnaire) will be tested using Cronbach's Alpha (\alpha). A value of \alpha > 0.70 will be targeted.
- * Validity: Content and Face Validity will be ensured by basing the questionnaire on the extensive literature review and having it reviewed by construction law experts before deployment. This ensures the questions accurately measure the intended concepts.

Findings and Discussions

1. Characteristics of Questionnaire Respondents

The questionnaire was distributed among professionals involved in the Indian construction industry, including contractors, consultants, project managers, and clients.

Most respondents had more than 5 years of industry experience, indicating that the data reflects practical, field-based knowledge. The majority were civil engineers working in both public and private sector projects



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such as residential, commercial, and infrastructure developments.

A large proportion of respondents (around 60–70%) were employed in contracting organizations, suggesting that their viewpoints were influenced by site-level experiences where disputes are most common. The diversity of respondents ensured that opinions represented multiple project perspectives — from planning and design to execution and delivery.

The typical characteristics of respondents in construction dispute research in India often include:

Roles/Professions: A mix of professionals from various stakeholders, including clients (owners, particularly from public sector entities), contractors (general contractors, sub-contractors), consultants (architects, engineers, project managers), arbitrators, and legal experts.

Experience Level: Most respondents possess significant experience in the construction sector (often a minimum of 5-10 years) to provide valuable insights based on practical knowledge of projects.

Company Type: Representation from both public and private sector organizations, with potentially different perspectives on dispute causes and resolution preferences (public sector leaning more towards litigation in the past, private sector more open to various ADRs).

Project Types: Involvement in diverse project types, such as large-scale infrastructure (highways, bridges), commercial buildings, and residential complexes.

2. Characteristics of Disputes in the Construction Industry

The study identified that disputes in the Indian construction sector arise mainly from delays in payment, scope changes, poor communication, contract ambiguity, and project delays.

Time overrun was found to be the most frequent cause, followed by cost escalation and design changes during execution.

Other notable factors included improper contract documentation, inaccurate project estimation, and lack of coordination among stakeholders.

It was observed that disputes most commonly occurred during the construction phase, when multiple agencies interact and changes are frequent.

The severity of disputes varied — smaller issues were often settled internally, while major disputes required third-party intervention such as arbitration or litigation.

Respondents also noted that contractual misunderstanding and ineffective communication often escalated minor disagreements into major conflicts.



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Key findings regarding the characteristics of construction disputes in the Indian context typically reveal:

Common Causes: Disputes frequently stem from a core set of issues, including:

Delays: The most frequent cause, often due to issues with land acquisition, permits/clearances, owner's slow decision-making, and poor contractor planning.

Payment Issues: Delayed or non-payment to the contractor, and disputes over price escalation or additional costs for variations, are major recurring problems.

Variations/Change Orders: Employer-initiated changes in the scope of work or design often lead to disagreements over costs and time extensions.

Contractual Ambiguities: Poorly drafted contracts, unclear terms, or discrepancies between contract documents create fertile ground for disputes.

Unforeseen Site Conditions: Different actual site conditions compared to the original tender information.

Poor Communication: Ineffective communication and a lack of collaboration among project participants exacerbate conflicts.

Nature of Disputes: Disputes are often complex, involving technical, financial, and legal intricacies. They can strain relationships, impact project timelines and budgets, and often escalate if not handled promptly.

Stage of Occurrence: While disputes can arise at any stage, many underlying issues emerge during the precontract and execution phases.

3. Ways of Controlling Construction Disputes

The research highlighted several strategies for controlling and preventing disputes in Indian construction projects:

Clear and detailed contract documentation: Properly drafted contracts defining scope, roles, and responsibilities minimize ambiguity.

Effective communication and documentation: Regular meetings, written records, and transparent information flow reduce misunderstandings.

Use of alternative dispute resolution (ADR) methods: Techniques such as mediation, negotiation, and arbitration were preferred over court litigation for being faster and more cost-effective.

Proper project planning and scheduling: Use of project management tools and realistic timelines helps prevent time-related disputes.

Training and awareness: Educating stakeholders on contract management and dispute resolution procedures

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builds a collaborative project environment.

Respondents agreed that adopting a proactive approach to dispute management — identifying potential conflict areas early — was more effective than addressing them after escalation.

Effective methods for controlling and resolving disputes identified in research findings include:

Alternative Dispute Resolution (ADR): ADR mechanisms are widely advocated and increasingly preferred over traditional litigation due to being faster, more confidential, and less expensive.

Negotiation: The primary and least formal method, often the first step in addressing conflicts.

Mediation/Conciliation: Involves a neutral third party to facilitate discussions and help parties reach a mutually acceptable, non-binding settlement (unless agreed otherwise). The Mediation Act, 2023, encourages pre-litigation mediation.

Arbitration: The most formal and common ADR method in India for construction, providing a binding and enforceable decision (arbitral award). It allows for the appointment of industry experts as arbitrators.

Dispute Boards (DB/DRB/DAAB): Involves an impartial panel appointed at the start of the project to provide timely, interim decisions, focusing on dispute avoidance during project execution. These are gradually gaining acceptance in India.

Proactive Contract Management: Implementing clear, well-drafted contracts that include specific provisions for variations, payment schedules, and dispute resolution procedures is crucial.

Improved Communication and Collaboration: Fostering better relationships, team spirit, and timely information sharing among all stakeholders can prevent the escalation of issues into formal disputes.

Early Detection and Resolution: Addressing conflicts as soon as they arise, at the project level (e.g., via project managers or relationship facilitators), prevents them from worsening and causing significant delays or legal action.

Government Initiatives: Schemes like the Vivad Se Vishwas II scheme to settle long-pending government contract disputes also play a role in reducing the overall dispute burden.

Conclusion

In conclusion, this research examines the major causes of disputes and dispute resolution methods used in the Indian construction industry is severely compromised by pervasive disputes, principally driven by delays, variations/change orders, payment and financial constraints, and a lack of clarity stemming from contractual ambiguities. These conflicts are further exacerbated by persistent issues in communication and project management, resulting in substantial cost overruns, schedule deviations, and deteriorated stakeholder relationships. While the sector traditionally relied on lengthy and expensive litigation, the analysis strongly

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supports the increasing adoption of Alternative Dispute Resolution (ADR) mechanisms—especially Arbitration and Mediation/Conciliation—which are proven to be more cost-effective, time-efficient, and conducive to preserving professional continuity. Moving forward, the industry must pivot from reactive conflict management to a proactive dispute avoidance strategy. This necessitates the institutionalization of clear, comprehensive contract documentation, the continuous fostering of a collaborative project environment, the use of early warning systems like Dispute Boards, and mandated training on effective ADR utilization. By embracing these evidence-based recommendations, stakeholders can significantly enhance project delivery success, minimize legal risks, and contribute to the overall stability and growth of India's vital infrastructure sector.

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