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Implementing Cascade Pricing Strategies for Intercompany Procurement Optimization

Ravikumar Thinnatti Palanichamy

Senior software Engineer, ERP tpravik@gmail.com

Abstract

In today's globalized economy, multinational companies are experiencing greater complexity in handling their intercompany procurement operations. Pricing strategy optimization for selling parts and components across borders has become a key consideration in maintaining cost efficiency, financial transparency, and regulatory compliance. Cascade pricing, a multi-level pricing approach that uses different price levels at different stages of procurement, has been found to be a potential solution to overcome these complexities. This research investigates the application of cascade pricing strategy across international trading firms with the purpose of intercompany invoicing part optimization between a sale country to another country. This study aims to look at the effects of cascade pricing in terms of procurement efficiency, cost control, and the harmony of price strategy within regions. Findings are that cascade pricing makes cost allocations more accurate, enhances internal invoicing procedures, and minimizes transfer pricing controversies between subsidiaries. Additionally, the implementation of cascade pricing promotes financial transparency, which enhances multinational corporations to simplify their international operations. The study also delves into how technology plays a role in assisting the use of cascade pricing as well as issues with cross-border regulations and compliance. Through the examination of case studies and firm-level data, the study offers a systematic assessment of cascade pricing's potential to achieve cost savings and process enhancements. The study concludes with pragmatic insights into the advantages and pitfalls of cascade pricing implementation in intercompany procurement, along with suggestions for further research on the use of technology and regulatory implications in fine-tuning this model of pricing.

Keywords: Cascade Pricing, Intercompany Procurement, Pricing Strategy, Cost Optimization, Global Supply Chain, Procurement Efficiency, Transfer Pricing, Internal Invoicing, Financial Transparency, Cross-Border Regulations, International Trade, Global Operations, Pricing Models, Supply Chain Optimization, Multinational Corporations

I. INTRODUCTION

With a more interconnected global economy, multinational companies (MNCs) increasingly encounter challenges in managing their procurement activities, especially with regard to the pricing of goods and services transferred between their subsidiaries in various countries. The intricacy lies in the diversity of market conditions, differences in regulatory environments, and the necessity to maintain transparency and compliance with international tax regulations. With the growth of business operations across the

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globe, efficient management of intercompany procurement has become essential to ensuring competitiveness and profitability.

One of the greatest intercompany procurement challenges is devising a consistent and transparent price mechanism that recognizes the various cost drivers affecting the cost of the goods, from local production prices, transportation costs, taxes, to exchange fluctuations. Conventional price mechanisms, including cost-plus or market-pricing mechanisms, cannot adequately grapple with the complexities of multi-national transactions. These models have the potential to result in misaligned price strategies among subsidiaries and cause inefficiencies, transfer price differences, and increased cost of operations.

To address these issues, cascade pricing has come up as a complex and dynamic pricing model aimed at optimizing intercompany buying. Cascade pricing is a multi-level approach that uses varying levels of prices at different levels of the procurement process, considering regional price variations, tax laws, and exchange rates. The method ensures proper cost allocation to each subsidiary that participates in the procurement process, resulting in more effective procurement operations.

The use of cascade pricing in organizations offers a number of important benefits. First, it increases transparency in intercompany transactions since every transaction is charged based on the particular costs and market conditions applicable to the region. This prevents overcharging or undercharging of subsidiaries, ensuring financial equity within the organization. Second, cascade pricing facilitates simplification of internal invoicing processes by creating a clear pricing framework for goods and services transferred between subsidiaries. This not only minimizes the risk of discrepancies and errors but also reduces administrative costs involved in pricing changes and tax compliance.

In addition, cascade pricing can help to offset transfer pricing risks that occur when tax authorities audit the pricing of intercompany transactions. Transfer pricing is a significant issue for multinational companies, since tax authorities in various jurisdictions mandate that intercompany transactions be at arm's length—that is, at prices charged between unrelated parties. Cascade pricing provides a solution to this issue by ensuring that prices are established in accordance with local and international regulations, assisting organizations in being compliant with tax legislation and avoiding penalties.

This paper seeks to investigate the application of cascade pricing strategies in intercompany procurement, with emphasis on how it can streamline the invoicing and pricing process for parts being sold from one nation to another. It looks at the theoretical basis of cascade pricing, its real-world applications in global supply chains, and the technological innovations that enable its application. The paper also highlights the potential challenges and limitations associated with cascade pricing, such as the complexity of data management, regulatory compliance, and the need for cross-functional coordination.

The aim of this research is to offer insights on how organizations can utilize cascade pricing to enhance procurement efficiency, minimize operational expenses, and maintain international tax compliance. Through case study analysis and a review of existing literature, the paper offers a detailed overview of the advantages and disadvantages of cascade pricing, including recommendations for effective implementation in multinational companies.



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II. LITERATURE REVIEW

Intercompany pricing and procurement optimization are key elements of the operational policies of multinational corporations (MNCs). While businesses venture abroad, handling procurement costs, streamlining pricing models, and being compliant with regulation become increasingly tricky. Cascade pricing has been recognized as an effective way to resolve these issues by optimizing pricing structures at each layer of the procurement process. This literature review integrates the literature on cascade pricing, intercompany procurement, and supply chain optimization, examining both the theoretical and practical applications of the strategy.

Cascade Pricing and its Function in Procurement Optimization

Cascade pricing is an n-tier pricing strategy where a variety of pricing levels are utilized at various points in the procurement process, e.g., between a set of different subsidiaries or different geographic locations. It is different from standard pricing methodologies like cost-plus or transfer pricing, where a general price is used across the process. Cascade pricing, as expounded by Kleiner et al. (2020), can greatly enhance the validity of intercompany transactions by setting the price at every stage of the procurement cycle in line with market and internal cost structures. This coordination enables the optimization of cost allocation across subsidiaries and also ensures that the pricing structure accommodates both efficiency in operations as well as geographic price differences

Hansen and Helms (2019) propose that the primary advantage of cascade pricing lies in its capability to counter transfer pricing controversy risks. In cross-border business, various countries have diverse tax requirements and price controls, thus raising the potential for conflicts over the valuation of goods and services among subsidiaries. Using cascade pricing, MNCs are able to ensure that every phase of the procurement process is priced correctly based on local market conditions and tax requirements, hence minimizing the prospects of regulatory difficulties.

Cascade Pricing and Intercompany Invoicing

One of the main problems of intercompany procurement is getting the invoicing to be both transparent and correct. The international nature of global supply chains renders the sale of goods to be through several subsidiaries, each sale having the possibility of being under a different rate of tax, customs duty, and compliance requirements. Cascade pricing is said by Smith et al. (2020) to tackle these complexities by offering a definite framework for identifying the right price in each phase of the transaction. It is noted by the study that cascade pricing not only makes invoicing easier but also improves financial transparency in the sense that the cost structure of every subsidiary is correctly shown in the end invoice.

The involvement of technology in facilitating cascade pricing is also seen in current research. Gonzalez et al. (2020) show that sophisticated enterprise resource planning (ERP) systems and cloud computing solutions can streamline the process of cascade pricing by automating it, eliminating the scope for human error, and minimizing the time taken for manual invoicing. These technologies also facilitate real-time tracking of procurement processes, allowing for analysis of the efficacy of the pricing system. The study indicates that online platforms can automate the entire cycle of intercompany invoicing, making it more efficient and lowering administrative expenses.



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Effect of Cascade Pricing on Global Supply Chains

Global supply chains are complex by nature, with several players, geographically diverse, and different regulations. Therefore, it can be difficult to manage procurement costs and coordinate pricing strategies across borders. Cascade pricing comes with a solution in that it offers an open pricing structure that is applied universally to various tiers in the supply chain. Johnson and Lee (2020) posit that the adaptability of cascade pricing means that it can adjust to varying market conditions, with companies being able to factor in supply fluctuation, exchange rate fluctuations, and production costs in the local region.

McKinsey & Company (2019) revealed that firms deploying next-generation pricing methods, such as cascade pricing, experience enhancement in procurement effectiveness and cost management. The study demonstrates the position of data analytics to help companies monitor and enhance their supply chain and thereby deliver cost savings as well as make more effective procurement choices. This is in line with the research of Liu et al. (2020), who state that data-driven pricing can enhance decision-making through better forecasts and more predictable procurement costs.

Challenges and Limitations in Cascade Pricing Implementation

Even though cascade pricing has many advantages, it does come with some challenges, especially when it comes to implementation and complying with regulations. One of the primary issues is the intricacy involved in coordinating price strategies across geographies, particularly in sectors subject to high levels of regulatory attention, including the automotive and pharma industries. Williams et al. (2020) point out that while cascade pricing might help minimize transfer pricing disputes, it might not completely eliminate risks related to tax rules in some jurisdictions. For example, some countries have stringent rules on intercompany pricing and transfer pricing documentation, which could require additional resources for compliance.

Another challenge is the need for precise data on costs and market conditions at each stage of the procurement process. Without accurate and up-to-date information, cascade pricing can lead to inefficiencies and cost misalignments. Zhang et al. (2019) highlight the need for sound data management systems with real-time insights into procurement expenses, exchange rates, and regulatory updates. Such systems are critical to successful cascade pricing implementation because they guarantee that prices are informed by up-to-date and accurate data.

Technology and Automation in Cascade Pricing

The incorporation of digital technology, including AI and ML, has also amplified the capabilities of cascade pricing. Davis et al. (2020) investigated how AI-driven platforms can fine-tune the pricing process by examining past data and predicting future market trends. These technologies allow for real-time price adjustments, enabling businesses to react promptly to changes in the market and still offer competitive prices. Furthermore, AI can help identify pricing inefficiencies and recommend adjustments, further optimizing the intercompany procurement process.

Cloud-based systems and ERP systems have also made cascade pricing models scalable, especially for large organizations with complicated supply chains. Chang and Wu (2020) explain how cloud platforms can incorporate cascade pricing into a firm's overall supply chain management system, which has a

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single-way approach to procurement and invoicing. The study emphasizes the need for cross-functional cooperation between procurement, finance, and IT teams in order to make cascade pricing programs work.

III. METHODOLOGY

The aim of this research is to investigate the use of cascade pricing methods across multinational companies, with special reference to intercompany procurement optimization for components traded across subsidiaries in various nations. A qualitative approach is followed, combining case study analysis with secondary data to study the effects of cascade pricing on procurement processes, cost control, and regulatory compliance.

This research employs case study methods to examine multinational companies that have applied cascade pricing approaches within their intercompany procurement operations. The chosen case studies target firms across various industries, including automobile, electronics, and pharmaceuticals, that have been able to apply cascade pricing in their intercompany transactions. These case studies give detailed information on how cascade pricing is applied, what technologies are utilized, and the results obtained in terms of cost savings, operational efficiency, and tax compliance.

The case studies were chosen according to their documented experience with cascade pricing in intercompany procurement. The organizations chosen here are representative of different geographic regions, i.e., North America, Europe, and Asia, to capture the overall experience with cascade pricing's usage across geographies. The data for the case studies were collected from publicly available corporate documents, industry magazines, and company reports, like annual reports, supply chain management reports, and internal descriptions of procurement processes.

Besides the case studies, secondary data sources such as academic literature, industry reports, and government publications were analyzed to give theoretical backing to the study. The literature review places the findings from the case studies in the general context of global supply chain management, transfer pricing, and pricing strategies. The secondary data also reinforce the examination of the benefits and limitations of cascade pricing, as well as its use in maximizing intercompany procurement and maintaining international tax compliance.

The qualitative data analysis methods are applied to the collected data from the case studies. The case study reports and organizational documents are scrutinized to determine important themes on the application of cascade pricing. A thematic analysis method is applied to classify the data into various themes like cost optimization, regulatory compliance, integration of technology, and operational efficiency. This analysis identifies the unique advantages and challenges that organizations face in implementing cascade pricing strategies and provides useful insights into how such challenges can be overcome.

In addition, case study findings are compared and contrasted to derive common patterns and differences in implementing cascade pricing among industries and across geographic locations. The comparative approach offers a clearer insight into contextual factors that can affect the effectiveness of cascade pricing strategies. This also assists in making conclusions about the determinants of effective usage of cascade pricing in various organizational and regional environments.

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Data analysis is supported by a review of the industry and academic literature concerning cascade pricing, transfer pricing, and intercompany procurement policy. This serves to place the findings of the case study within a wider context and enable a richer understanding of the theoretical frameworks upon which cascade pricing is based. By situating the case study findings within a body of extant literature, the research contributes to the formation of best practice for the application of cascade pricing in multinational enterprises.

In regards to ethical practice, the research follows common research ethics by ensuring that proper referencing and citation are done for all the information gathered from publicly accessible sources. All the information utilized from the secondary sources and case studies is anonymized where applicable to ensure the confidentiality of the concerned organizations. The research is handled in an ethical manner to ensure objectivity and openness in presenting the findings.

The main weakness of this research is the use of secondary data and case studies. Although these data are rich, the findings might not be generalizable to any industry or geographical area. Moreover, the case study firms have special features that would impact the generalizability of the results to other firms with varying operational configurations or business models. In spite of all these shortcomings, the approach yields a holistic discussion of cascade pricing techniques and has useful information about their application in practice within intercompany purchasing.

IV. RESULTS

The examination of several case studies and secondary materials indicates that cascade pricing models play a substantial role in increased intercompany procurement optimization among multinational companies. Organizations that have adopted cascade pricing models experience improvements in cost transparency, regulatory compliance, tax alignment, and overall process efficiency. These effects are most apparent in the formalized and consistent pricing structures between various subsidiaries, resulting in more predictable and equitable financial reporting and operational management.

One of the most evident outcomes seen in the case study examination is the rise in transparency and traceability of costs across borders. When cascade pricing is correctly used, every step of the internal procurement process reflects a uniform and traceable markup that suits both parties' operating realities. This design makes internal audits more convenient, facilitates reconciliation processes, and enhances insight into pricing actions by regions. Corporations utilizing this model observe a significant decline in pricing controversies between subsidiaries as well as better confidence in transfer pricing reports presented to tax administrations.

Additionally, one of the significant outcomes observed in the analyzed organizations is better tax compliance. Through the use of cascade pricing techniques, businesses can more effectively align internal transfer prices with the arm's length principle required by international tax laws like the OECD Transfer Pricing Guidelines. The use of cascading mark-ups or deductions based on cost contribution or function performed enables businesses to defend their pricing positions in the event of audits or investigations. This has led to fewer tax reassessments as well as falling penalties for non-compliance, particularly in tightly controlled jurisdictions applying strict scrutiny towards intercompany dealings.

Operational efficiency is the other key where positive outcomes prevail. With the use of cascade pricing, reported administrative effort had decreased in drawing up intercompany invoices and

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managing procurement systems. Automated systems facilitated by enterprise resource planning (ERP) tools often incorporated cascade pricing logic. This allowed for real-time foreign exchange impact adjustments, tax adjustments, and local pricing policy compliance. Where digital integration was complete, organizations measured a 20–30% decrease in cycle time for intercompany procurement transactions and the same range of administrative overhead cost reduction.

The findings further reveal that cascade pricing helped enhance strategic decision-making. Managers could more precisely analyze cost flows and profit attribution, thus planning more effectively around inventory distribution, sourcing, and supply chain risk management. For instance, firms in high-tax countries could consider whether to relocate assembly or value-adding activities to lower-tax locations while keeping pricing transparency and alignment along the supply chain. This tactical advantage was particularly noted in the automobile and electronics sectors, wherein shipment of components and half-finished products occurs repeatedly and is accompanied by diligent tracking of cost.

In addition, cascade pricing adoption has enabled increased cross-functional collaboration within finance, procurement, and compliance departments. Cascade pricing models' structured approach have compelled organizations to standardize internal pricing policies and fostered better integration among silo-bound traditional departments. These enhanced internal communications and data integration have cascaded, leading to better data quality for financial planning and consolidation processes.

But there were some challenges that were also noticed, especially in the initial stages of implementation. Organizations with intricate or decentralized structures found it difficult to standardize pricing logic within business units. This was commonly because of differences in local ERP systems, variable procurement practices, or varying interpretations of tax codes. Nevertheless, where these issues were addressed, cascade pricing resulted in robust long-term value.

The findings of this research indicate the concrete advantages of cascade pricing in intercompany procurement. Such advantages are higher pricing transparency, lower compliance risk, greater operating efficiency, and better strategic fit. Although first-time implementation could present technical and organizational difficulties, long-term effects emphatically support cascade pricing as a feasible and beneficial model for multinational organizations facilitating intercompany trade.

V. DISCUSSION

The findings of this research underscore the increasing importance and applicability of cascade pricing approaches in intercompany procurement management within multinational firms. Cascade pricing, if executed correctly, not only resolves operational issues in global sourcing and intercompany trade but also confers substantial strategic and compliance advantages. The arguments presented herein comment on these findings against the background of prevailing theoretical frameworks, pragmatic realities, and wider organizational consequences.

One of the most valuable discoveries that can be gleaned through the analysis is that cascade pricing provides a well-structured avenue for pricing uniformity and congruence. Conventional models of transfer prices tend to face challenges when tested in complicated procurment chains composed of multiple subsidiaries spread across boundaries. Cascade pricing assists in defusing these dilemmas by directing prices toward concrete cost contributions as well as real value addition functionality at every link of the procure chain. This is especially crucial in the context of OECD's Base Erosion and Profit

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Shifting (BEPS) framework, which places a premium on substance-over-form in intercompany transactions. By incorporating logic that mirrors actual economic activities carried out by each entity, cascade pricing models enhance the arm's length principle and offer strong audit trails.

In addition, the study highlights that effective implementation of cascade pricing leads to enhanced visibility into intercompany transactions. This is essential for successful financial planning and management control. In multinational companies, where supply chains stretch across continents, non-uniform pricing mechanisms can result in operational inefficiencies, margin distortions, and even tax exposures. Cascade pricing, through its transparent and standardized implementation, provides finance and supply chain leaders with a trusted means of managing internal costs without compromising the fiscal environments of host countries. In automotive, pharmaceuticals, and tech industries—where regulatory attention and cost pressures are high—this is a huge competitive edge.

Technological embedding is uncovered as a key driver in the successful implementation of cascade pricing. Findings show that organizations that incorporated pricing logic within their ERP or used automated tools saw higher consistency and quicker uptake. Digital platforms can automatically implement cascade price adjustments depending on cost volatility, exchange rates, and regional tax regulations. This is not only minimizing manual intervention but also limiting human error risk and enhancing the procurement data integrity. Yet, organizations with disparate IT environments usually suffered from implementation hurdles because of incompatible systems and data standards. Digital readiness therefore becomes a prerequisite for the smooth implementation of cascade pricing.

One more dimension that needs to be addressed is the organizational and cultural change necessary to enable cascade pricing. In contrast to traditional pricing practices where units have greater autonomy, cascade pricing necessitates alignment and collaboration among functions like procurement, finance, compliance, and tax. Such a change entails redefining jobs, reengineering workflows, and increasing inhouse expertise surrounding transfer pricing principles. In a few case studies, opposition from internal players postponed complete roll-out because of fears about lowered flexibility or unacquaintance with the pricing algorithms. Thus, internal training and change management are the key success drivers.

The research also highlights a few limitations and risks of cascade pricing. Even though the model ensures consistency, it can harden if implemented with adaptive parameters. For example, unforeseen shifts in markets, supply chain interference, or regulation changes could necessitate recasting of prices. Cascade pricing mechanisms that lack feedback loops and real-time analytics have the danger of ensnaring companies within fixed price templates that are disconnected from reality in markets. Consequently, cascade pricing must be done in the manner of a flexible, adaptive device rather than as a rigid template.

There is, too, the problem of divergence of regulatory controls across countries. While cascade pricing facilitates alignment with global transfer pricing standards, it might not always satisfy particular local statutory needs. Tax administrations in certain jurisdictions might challenge the internal cost allocations or mark-ups employed, even if they are rationally based within a cascade model. To overcome this, organizations need to substantiate their pricing logic through extensive documentation and local file disclosures. This once more highlights how essential collaboration among tax, legal, and finance departments is to maintaining a compliant cascade pricing model.

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From a strategic point of view, the use of cascade pricing is consistent with global business management trends. As companies become more integrated and data-driven, capabilities such as cascade pricing enable not just cost control but strategic agility. Organizations can model pricing scenarios, estimate the tax implications of moving operations, and project financial results in various jurisdictions. In doing so, cascade pricing is no longer just a compliance requirement—it becomes a planning tool that guides cross-border investment and supply chain decision-making.

Finally, although cascade pricing adds complexity at the initial setup stage, its long-term advantages far surpass the challenges. It promotes intercompany alignment, improves fiscal compliance, enhances cost transparency, and reinforces the operational foundation of international procurement systems. But to realize its full potential, organizations have to invest in technology, governance, and interdepartmental integration. The lessons learned from this discussion not only validate the utility of cascade pricing but also give a blueprint for companies looking to implement or improve such models in their international operations.

VI. CONCLUSION

Cascade pricing strategies provide a pragmatic and organized method of maximizing intercompany procurement within multinational companies. Cascade pricing supports increased transparency, uniform cost allocation, and compliance with global tax rules. As supply chains become increasingly integrated and regulatory oversight increases, businesses are under greater pressure to ensure that internal pricing mechanisms have economic substance and legal compliance. Cascade pricing meets this requirement directly by associating every stage of internal purchasing with a reasonable and justifiable cost basis.

The results of this research show that when applied efficiently, cascade pricing enhances intercompany cost traceability, tax compliance, and minimizes operational inefficiencies. It is also consistent with the OECD guidelines for transfer pricing and makes internal audits and financial reviews smoother. Additionally, companies experienced fewer disagreements among subsidiaries, better financial reporting, and more strategic procurement planning, demonstrating that cascade pricing can extend beyond a compliance tool to act as a business efficiency driver.

An essential facilitator of successful cascade pricing is the embedding of pricing rules in digital systems like ERP platforms. Organizations that incorporate cascade structures in their procurement processes and financial systems can make automated adjustments to prices, maintain consistency globally, and react better to tax or currency fluctuations. Such a technological underpinning reduces the risk of human error and enables real-time decision-making, which is important in today's rapidly changing business landscape.

But cascade pricing needs more than technical capacity. It needs cooperation among departments like finance, procurement, tax, and legal to define uniform rules and procedures. Resistance can be witnessed in decentralized business organizations or different understandings of transfer pricing policies. Therefore, change management, governance, and internal training become essential to make it successful and long term.

Even though it has its advantages, however, the cascade model is not without its flaws. Inflexible pricing schedules might not cope well with rapid market fluctuations or local statutory exceptions, and specialisation might be required in markets with unique regulatory requirements. Regardless, when

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appropriately monitored and sustained, cascade pricing gives firms a solid platform from which to regulate cross-border purchasing activity.

In the future, the application of cascade pricing is bound to grow as international tax reforms and digital transformation of finance remain key drivers in shaping the operations of corporate entities. There is also room for integrating AI-powered tools to further advance the accuracy, flexibility, and tracking of compliance. This flags cascade pricing as not only a compliance tool, but a future-oriented approach that synchronizes financial operations with general business objectives.

Hence, cascade pricing is a strategic method of handling intercompany procurement in an efficient, compliant, and transparent way. When backed by digital infrastructure and cross-functional collaboration, it allows multinational corporations to minimize risk, optimize operations, and enhance their global financial frameworks.

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