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### A STUDY OF AGGREGATE PLANNING IN LOGISTICS

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#### **ABSTRACT**

These days, supply chain management is concerned with the movement of raw resources, goods, and information. Supply chain management includes the effective use of assets and information to meet customer needs, transfer products, services, and assets. Comprehensive planning refers to a medium-term evaluation of demand, inventories, skills, and labor utilization level. The traditional mathematical programming formulae are typically used to decrease the total operational budget. This phrasing, on the other hand, is purely commercial and ignores sustainability. This research examines traditional aggregate planning to include extra environmental and social elements to combine three fundamental characteristics of sustainability. To improve aggregate preparation efficiency, we combine these additional requirements with conventional expenses. Finally, we evaluate the models and understand the outcomes of a real-life study.

**KEYWORDS:** Aggregate Planning, Aggregate Production Planning, Environment, Strategy, Sustainability.

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