In this piece of work we make new contributions to the area of supply chain management and operations management. It makes new contributions in the area of supply chain risk and external and internal integration. Also we have essays on various types of lot sizing problems. We also give new formulations of different types of plant/warehouse location problems. The different types of valid inequalities that we propose are expected to give superior linear programming relaxation bounds and will lead to superior computational performance.

Prof. RRK Sharma is HAG scale Full Professor at Dept of IME IIT Kanpur 208016. He has till date 339 publications. He has taught 22 different courses at IIT Kanpur. He is well versed in all areas of management, and has unique ability to present an ‘integrated view.'