

## Challenges of Logistics and Supply Chain Management during COVID -19

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### Abstract

Over time researchers explained the need for a resilient supply chain because of different uncertainty throughout the supply chain network. Until the end of 2019, most worldwide organizations did not realize the actual need for this type of supply chain model. We all assume that materials can freely flow globally, empowering them to the source, produce, and circulate items at the least cost areas around the globe. COVID-19 illustrates that many companies are not fully aware of the vulnerability of their supply chain relationships to global shocks. Now entire industries, start rethinking and transforming their global supply chain model. Now we need to focus on a few things.

- The significant challenges facing the industries due to COVID 19
- The need to offset effectiveness with adaptability and versatility in supply chain organize a plan
- The need for developing more resilience supply chain model and minimize the negative operational and financial impact

**Keywords:** supply chain management, resilience supply chain, COVID-19

### Biographies

**Piya Ghosh** is currently a full-time research scholar at Indian Institute of Technology Kanpur. Ms. Ghosh holds a Bachelor of Technology degree in Computer Science and Engineering from West Bengal University of Technological, Kolkata and a Master of Technology in Operations Research from National Institute of Technology, Durgapur. Her interest areas include Operations Research and Operations Management.

**RRK Sharma** has had 30 years of career to date. Started as a graduate engineer trainee with TELCO (PUNE) (now TATA MOTORS INDIA) during 1980-82, and later went on to do Ph.D. in management at I.I.M., Ahmedabad, INDIA. After Ph. D. in management, he worked with TVS Suzuki (for 9 months) as executive assistant to GM (marketing). Now he has 26 years of teaching and research experience at the department of Industrial and Management Engineering, I.I.T., Kanpur, INDIA. He has taught over 22 different courses in management at IIT Kanpur, INDIA (to B. Tech., M. Tech. and M.B.A. students) and is well versed with all the facets of management and has unique ability to integrate different areas of the subject. To date he has 811 (published/under review) publications (227 Full Length Papers and 569 Extended Abstracts Outlining Theoretical Framework) in international/national journals and eight research monographs). He has developed over 8 software products. Till date he has guided 60 M TECH and 18 Ph D theses at IIT Kanpur. He has been Sanjay Mittal Chair Professor at IIT KANPUR (15.09.2015 to 14.09.2018). He has won several international awards: American Medal of Honor and the 2006 and the 2008 Man of the Year award given by the American Biographical Institute, Inc., 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web: [www.abiworldwide.com](http://www.abiworldwide.com). He was elected FELLOW of AIMS International in 2012. He is the recipient of the Dr Manubhai M Shah Memorial Award 2013 (instituted by the Indian Commerce Association) & it carried a cash prize of Rs. 1 Lakh, trophy and a certificate of excellence. In 2015: “Membership Award” for Prof. RRK Sharma; given by IABE USA (International Academy of Business and Economics). Prof. RRK Sharma, recognized as “Distinguished Scientist”, by Venus International Foundation Research Awards 2015 (VIFRA 2015) at CENTRE FOR ADVANCED RESEARCH AND DESIGN; Chennai: Dec 19; 2015. In 2016: Prof. RRK Sharma, “Distinguished Educator Award”, selected by IEOM (Industrial Engineering and Operations Management) Society, USA; given Kuala Lumpur on MAR 09, 2016.