

Dr. DIVYACHOUDHARY
Assistant Professor (Grade –I)
Operations Management
Indian Institute of Management Lucknow



ACADEMIC CREDENTIALS

College Level

Degree	SPECIALIZATION	COLLEGE	YEAR	PERCENTAGE
Ph.D.	Operations&SupplyChainManagement	IITDelhi,NewDelhi	2019	9.33
M.Tech.	ProductDesign&Development	MNNIT,Allahabad	2013	9.6
B.Tech	Mechanical	KIET,Ghaziabad	2011	75.80

School Level

CLASS	SCHOOL	YEAR	PERCENTAGE
XII(CBSEBoard)	LadyIrwin School,Delhi	2007	86.8
X(CBSEBoard)	LadyIrwin School,Delhi	2005	86.8

EXPERIENCE

INSTITUTE	AREA	From	To
Indian Institute of Management Sambalpur	Operations Management	9 th September, 2019	20 th October, 2023

PhD.DISSERTATION

Title–“A Study of Risks Associated with Sustainable Freight Transportation Systems”

Organizations are under substantial pressure to develop sustainable freight transportation systems (SFTSs) owing to the increasing societal pressure and government regulations. Development of SFTSs faces a major challenge due to the various inherent sustainability risks. Sustainability risks are potential threats that adversely impact the integration of triple-bottom line framework and act as impediments in the development of sustainable systems. As the area of sustainability risk management is relatively new, the studies addressing the risk aspects in the context of sustainability are very limited. This research seeks to address this gap in the literature by developing a comprehensive framework that facilitates visibility (risk identification), measurability (risk indexing), predictability (risk analysis) and manageability (risk treatment) in FTSs for the management of associated sustainability risks. A total of five models focusing on the identification, evaluation, profiling and management of sustainability risks in freight transportation systems have been developed as part of the dissertation work. The results inform the managers about the high priority sustainability risks inherent in FTSs and provide implications to proactively mitigate and control such

risks. The study provides guidelines relevant to industrial practitioners that instead of focusing on financial aspects, there is a need to emphasize more on the social dimension primarily on improving the behavioral and skill aspects in the employees for the development of SFTSs. This research is very significant in the current scenario as it can improve the performance of sustainable systems, which is the key requirement in many sectors.

RESEARCH ARTICLES

Journals (Published)

- 1) Choudhary, D., Tomar, A. and Huo, B. (2023). Examination of sustainability risk in freight shipping based on the theory of planned behaviour with temporal analysis. *Transportation Research Part E: Logistics and Transportation Review*, 176 (“A*” in ABDC).
- 2) Choudhary, D., Qaiser, F. H., Choudhary, A., & Fernandes, K. (2022). A model for managing returns in a circular economy context: A case study from the Indian electronics industry. *International Journal of Production Economics*, 249, 108505. (“A” category in ABDC).
- 3) Choudhary, D., & Kumar, R., (2021). Risk investigation in circular economy: a hierarchical decision model approach. *International Journal of Logistics Research & Applications* (Article in Press) (“B” Category in ‘ABDC’).
- 4) Choudhary, D., Choudhary, A., Shankar, R., & Hicks, C. (2021). Evaluating the risk exposure of sustainable freight transportation: a two-phase solution approach. *Annals of Operations Research*, 1-35. (“A” Category in ‘ABDC’)
- 5) Choudhary, D., Shankar, R., & Choudhary, A. (2020). An integrated approach for modeling sustainability risks in freight transportation systems. *Risk Analysis*, 40(4), 858-883 (ABS “4”, Impact factor: 3.137).
- 6) Fulzele, V., Shankar, R. and Choudhary, D. (2019), “A model for the selection of transportation modes in the context of sustainable freight transportation”, *Industrial Management & Data Systems*, Vol. 119 No. 8, pp. 1764-1784. (ABDC ‘A’ category)
- 7) Shankar, R., Choudhary, D., and Jharkharia, S. (2018) “An integrated risk assessment model: A case of sustainable freight transportation systems” *Transportation Research Part D*, 63:662-676. (“A” in ABDC).
- 8) Madaan, J., and Choudhary, D. (2015) “A Flexible Decision Model for Risk Analysis in Product Recovery Systems.” *Global Journal of Flexible Systems Management*, 16(4):313-329. (“A” in ABDC)
- 9) Choudhary, D., Madaan, J., and Narain, R., (2014). “An Integrated Decision Model for Selection of Third Party Recovery Facilitator (3PRF) for Product Recovery Operations.” *Journal of Operations and Supply Chain Management*, 7(2):79-101.

Book Chapters

Choudhary, D., & Madaan, J. (2016). “Hierarchical Decision Modeling Approach for Risks Prioritization in Sustainable Supply Chains.” In *Managing Humanitarian Logistics*: 209-225. Springer India.

Conferences Proceedings

- Choudhary, D. (2022). A Decision Model for Sustainable Freight Transportation Systems. Presented at ISDSI annual Conference, Bangalore, Dcember.
- Choudhary, D. (2021). A Decision Model for Circular Economy. Presented at DSI annual Conference, USA, October, 2021.
- Choudhary, D. (2021). Managing Risks in Circular Economy using Flexible Strategies. Presented at DSI annual Conference, USA, October, 2021.
- Mohanty, M., Choudhary, D., and Fulzele, V. (2019). Decision-based model for developing green logistics of consumer durable under uncertainties.presented at 13th Annual ISDSI Conference, Bhubaneswar, India, December 27-30.
- Shankar, R., Choudhary, D., and Choudhary, A. (2018) "Risk Assessment in Freight Transportation Systems for Ensuring Safety and Sustainability" in the proceedings of 4th International Conference on Decision Support System Technology (ICDSST 2018 & PROMETHEE DAYS 2018) at Hellenic Centre for Marine Research, Heraklion, Crete, Greece, May 22-25.
- Choudhary, D. and Shankar, R. (2017) "Developing a Risk Index for Sustainable Freight Transportation" in the proceedings of INFORMS Annual Conference held in Houston, USA, October 22- 25.
- Choudhary, D. and Shankar, R. (2017) "Risk Assessment in Sustainable Freight Transportation System" in the proceedings of INFORMS Annual Conference held in Houston, USA, October 22- 25.
- Choudhary, D., Shankar, R. and Choudhary, A. (2017) "An Integrated Risk Assessment Approach in Sustainable Freight Transportation Systems" in the proceedings of Inaugural Conference of Aston India Centre for Applied Research at Aston Business School, UK, September 15-16.
- Choudhary, D., Shankar, R. and Choudhary, A. (2016) "Analyzing Sustainable Risks in Freight Transportation System" in the proceedings of 3rd International Conference on Green Supply Chain at Loughborough University, London Campus, UK, July 10– 13.
- Madaan, J., Choudhary, D. &Charan, P., (2015). "Multi-criteria Disposition Decision Framework for Time Sensitive Products Recovery System." In the proceedings of POMS, Washington D.C., USA, May 8-11.
- Madaan, J., Choudhary, D. &Charan, P., (2015). "Decision Model for Risk Analysis in Product Recovery Systems (PRS)." In the proceedings of POMS, Washington D.C., USA, May 8-11.
- Madaan, J., & Choudhary, D., (2015). "Integrated Fuzzy Approach for Analyzing Risk Analysis in Product Recovery System." In the proceedings of INFORMS, Philadelphia, USA, November 1-4.

COURSES TAUGHT

Operations Management I
Decision Modeling Techniques
Supply Chain Management

RESEARCH INTERESTS

- Sustainable Operations Management
- Risk Management
- Supply Chain Management
- Circular Economy
- Sustainable Transportation
- Industry 4.0
- Sustainability Risk Management
- Decision Making Models

RESEARCH VISITS & PROJECTS

- Visiting Research Scholar, School of Business & Economics, Loughborough University, UK (Duration: August 01 – September 30, 2017; Supervisor: Professor Alok Choudhary)
- Worked on Different UKERI Sponsored Projects during PhD