

(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application :03/08/2025

(21) Application No.202541073840 A  
(43) Publication Date : 05/09/2025

(54) Title of the invention : SUPPLY CHAIN MANAGEMENT: STREAMLINING OPERATIONS IN THE FMCG INDUSTRY

(51) International classification :G06Q0010087000, G06Q0010080000, G06Q0010040000, G06Q0030020200, G06Q0010083000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71) **Name of Applicant :**  
**1)Dr. Prakash K. C.**  
Address of Applicant :Associate Professor (Agri-Business), Indian Institute of Plantation Management (IIPM), Campus P.O, Jnana Bharathi, Mallathahalli, Bengaluru, Pin: 560056, Karnataka, India. -----  
**2)Mr. Sai Santhosh Reddy Bhimu**  
**3)Mr. N. Vinodh**  
**4)Dr. Girish Dutt Gautam**  
**5)Dr. M. Sangeetha**  
**6)Mr. Mohit Maroti Borkar**  
**7)Dr. R. Devapriya**  
**8)Dr. Rosanth I**  
**9)Ms. Andrea Varghese**  
**10)Mrs. M. Nithyalakshmi**  
**11)Prof. Dr. Harikumar Pallathadka**  
Name of Applicant : NA  
Address of Applicant : NA  
(72) **Name of Inventor :**  
**1)Dr. Prakash K. C.**  
Address of Applicant :Associate Professor (Agri-Business), Indian Institute of Plantation Management (IIPM), Campus P.O, Jnana Bharathi, Mallathahalli, Bengaluru, Pin: 560056, Karnataka, India. -----  
**2)Mr. Sai Santhosh Reddy Bhimu**  
Address of Applicant :Senior Engineer - Cloud & Data Solutions, University of Houston Clear Lake, 2700 Bay Area Blvd, Houston, TX 77058, Zip: 77058, Texas, United States. -----  
**3)Mr. N. Vinodh**  
Address of Applicant :Assistant Professor, St.Joseph College of Engineering, Near Toll Plaza, Sriperumbudur, Kancheepuram, Chennai, Pin: 602117, Tamil Nadu, India. -----  
**4)Dr. Girish Dutt Gautam**  
Address of Applicant :Associate Professor, IIMT College of Engineering, Plot No. 19 & 20, Knowledge Park III, Greater Noida, Gautam Buddha Nagar, Pin: 201310, Uttar Pradesh, India. -----  
**5)Dr. M. Sangeetha**  
Address of Applicant :Assistant Professor, Sona College of Arts and Science, Salem, Pin : 636005, Tamilnadu, India. -----  
**6)Mr. Mohit Maroti Borkar**  
Address of Applicant :Research Scholar, Department of Management, Mansarovar Global University, Bilkisganj, Beel Kheda Khurd, Bhopal, Pin: 466001, Madhya Pradesh, India. -----  
**7)Dr. R. Devapriya**  
Address of Applicant :Vice Principal, Associate Professor & Head, Department of Commerce, Dr.R.V.Arts and Science College, Karamadai, Coimbatore, Pin:641104, Tamilnadu, India. -----  
**8)Dr. Rosanth I**  
Address of Applicant :Assistant Professor, Periyar Maniammai Institute of Science & Technology (Deemed to Be University), Periyar Nagar, Vallam, Thanjavur, Pin: 613403, Tamil Nadu, India. -----  
**9)Ms. Andrea Varghese**  
Address of Applicant :Ph.D Scholar, KPR College of Arts Science and Research, Coimbatore, Pin:641407, Tamil Nadu, India. -----  
**10)Mrs. M. Nithyalakshmi**  
Address of Applicant :Assistant Professor, Dharmamurthi Rao Bahadur Calavala Cunnam Chetty's Hindu College, Chennai - Tiruttani Hwy, Dharmamurthy Nagar, Pattabiram, Thiruvallur District, Pin:600072, Tamil Nadu, India. -----  
---  
**11)Prof. Dr. Harikumar Pallathadka**  
Address of Applicant :Professor & Director, Manipur International University, Ghari Awang Leikai, Airport Road, Imphal, Imphal West District, Pin: 795140, Manipur, India. -----

(57) Abstract :  
The present invention discloses an AI-enabled supply chain management system specifically designed for the Fast-Moving Consumer Goods (FMCG) industry. The system integrates real-time data collection, predictive demand forecasting, dynamic inventory optimization, and intelligent logistics planning to streamline supply chain operations. It enhances visibility and coordination among manufacturers, distributors, and retailers through a centralized dashboard interface, enabling proactive decision-making, reducing operational inefficiencies, and improving service levels across the supply chain.

No. of Pages : 17 No. of Claims : 6