

CURRICULUM VITAE OF JAN K VARMA



JAN K VARMA, P. Eng

Managing Consultant

Mr. Varma is an industry recognized leader with diversified engineering and management skills in the engineering, procurement and construction industry with over 40 years of experience in domestic and international Process, Power and Industrial business, and a successful track record in global capital project execution worth multibillion USD in installed cost. Mr. Varma's core skills include leadership, entrepreneurship, turnkey project management, financial (P&L) responsibility, contract negotiations, strategic planning, global business development, quality management and relationship building.



As a Project Director with Reliance industries, Mr. Varma managed, from inception to start-up, world's largest Refinery off gas cracker complex, a grass roots facility involving over \$7 billion of capital investment. The complex was started up in June 2017 and has achieved full production. As the Ethylene Business Unit Senior Vice President and Project Director with Shaw Stone & Webster, Mr. Varma successfully pursued, negotiated, and managed several domestic and international mega projects with teams consisting of hundreds of professionals in multiple offices across the globe and thousands of construction workers on site. As the Director of Engineering for Stone & Webster Worldwide Process Business Sector, Mr. Varma implemented several quality and efficiency improvement initiatives. He also helped standardized work process in all offices across the globe. Mr. Varma additionally formulated a strategic plan for the power and process business in Stone & Webster's Toronto office, which led to major project awards and over \$3 billion in installed costs. He also led strategic plan development for Stone & Webster's Houston office. In this office, he also led a quality improvement team to reengineer project execution systems for Stone & Webster's process business sector. The initiative resulted in ISO 9001 certification of the Houston office in the first attempt and in record time.

Mr. Varma developed an innovative concept of offering pre-engineered ethylene plants to clients worldwide after the Asian economic crises in 1998 which led to cancellation of a fully engineered project in Indonesia. Led the marketing initiative and successfully negotiated the sale of the Indonesian ethylene plant to BASF and YPC in China.

Mr. Varma has received several awards from Gulf Farabi, Saudi Arabia, ExxonMobil, SNC Lavalin, Singapore Government and Reliance Industries for achieving outstanding safety performance at project construction sites.

EDUCATION

- Executive Masters in Business Administration, Canadian School Of Management, Toronto, ON
- Masters of Science in Mechanical Engineering, McMaster University, Hamilton, ON
- Bachelors of Science in Mechanical Engineering, Ranchi University, Sindri, Dhanbad, India

EMPLOYMENT HISTORY

- 2011 - 2019 Reliance Industries, Executive Vice President, Mumbai, India
- 2006 - 2011 Shaw Stone & Webster, Senior Vice President, Houston, TX,
- 2002 - 2006 SNC Lavalin, Vice President, Houston, TX,
- 1974 - 2002 Stone & Webster, Director of Engineering, Houston, TX,

2011-2017 **RELIANCE INDUSTRIES LIMITED** **Mumbai India**
Executive Vice President, Project Director

- Managed world's largest Refinery Off Gas Cracker complex project. The scope included 1.5 MTA cracker, two polymer units (LLDPE and LDP) of 450-550 KTA, 700KTA MEG unit, 10,000 M3/hr sea water desalination plant, power plants of 1200 MW generating capacity and all utilities and off sites. The project was completed in record time with significant cost advantage. Project set several industry benchmarks in construction and safety. Set up a very strong safety management program that led to one of the safest project of its size globally. The cracker project received corporate platinum award for achieving 25 million safe hours.
 Established learning and development program for project management academy. Key faculty member responsible for training hundreds of project management professionals in the field of project execution.

2006-2011 **SHAW STONE & WEBSTER** **Houston, TX**
 2009-2011 **Senior Vice President, Project Director**

- Responsible for the management and execution of one of the largest petrochemical project undertaken by ExxonMobil Chemical. The project was over \$1.5 billion in total installed costs with production capacity of over 1.5 million tons per annum of Olefins and 220 MW of power. The project is located in Singapore and the scope included process design, detailed engineering, procurement, construction and commissioning services on a lump sum basis.
- Led over 8,000 management, support, and construction personnel on site in Singapore and worked extensively with ExxonMobil executive management.

2006-2009 **Senior Vice President, Olefins Business Line**

- Responsible for the management of all olefins project activities for the company. Responsibilities included leading pursuit teams, formulating winning strategies, supporting proposal development, providing overall guidance to project directors/managers.
- Led the pursuit of ExxonMobil Ethylene project in Singapore. The project was won against international competition.
- Supervised the following Olefins projects:
 - Sharq 3rd Expansion Ethylene project, Jubail, Saudi Arabia (1.3 million tons/year ethylene cracker)
 - Petrokemya Ethylene Plant Expansion, Jubail, Saudi Arabia
 - Huntsman ethylene plant revamp, TX, USA
 - Petrobrass, 2 Olefins projects, 4 Olefins projects in China

2002-2006 **SNC LAVALIN** **Houston, TX**
Vice President and Project Director

- Led a \$350 million n-Paraffin/LAB grassroots project in Jubail, Saudi Arabia. The project scope included engineering, procurement, construction, pre-commissioning, and commissioning services for the on-plot facilities. The project was completed in a record time of 26 months from project kick off to ready for commissioning in May 2006.

- Successfully turned around \$1.5 billion heavy oil up grader expansion project for Syncrude Canada in Alberta which was behind schedule with escalating engineering and construction costs. The project scope included engineering, procurement, construction, and start up services for the utility and offsites.
- Received SNC Lavalin corporate award for outstanding project achievement in the category of safety for project in Saudi Arabia

1992-2002

STONE & WEBSTER ENGINEERING CORP

Houston, TX

Senior Project Manager

- Project Director for a 600MW combined cycle co-generation power plant in Convent, Louisiana for Entergy.
- Managed a front-end design of a \$400 million Basic Chemicals Complex project in China for BASF-YPC. The project scope included EPC for an Ethylene plant, Aromatics Extraction unit, Steam generation and other off-site facilities on a fixed price turnkey basis.
- Executive sponsor of a lump sum turnkey project for Solvay Polymers in Alabama.
- Senior Project Manager for an \$800 million fixed price turnkey project in Indonesia. The scope of the project included engineering, design, procurement, construction and start-up of a 700,000 ton per annum ethylene plant, a 250 MW power plant, steam generation and the offsite and utilities for the petrochemical complex.
- Project Director and Company representative on several projects for Saudi Aramco Company. Projects included expansion of a 700-million scfd gas plant at Uthmaniyah gas processing facility, BTX extraction facility at the Shedgum Gas plant and Aramco's Riyadh and Qassim pipeline projects.
- Received Stone & Webster Chairman's award of excellence in 1998 for being the finalist for outstanding contribution made during the year.

Director of Engineering

- Led global engineering and design activities of the process business sector in Stone & Webster consisting of over 1500 engineers, designers and administrative staff in various offices.
- Initiated several activities to improve overall project execution capabilities with a focus on project definition, budget, and schedule and client alignment.
- Organized various training sessions with outside consultants such as Independent Project Assessment and CII.

1974-1992

STONE & WEBSTER CANADA LIMITED

Toronto, ON

Manager of Engineering

- Directed and coordinated the execution of all-technical work undertaken by the Canadian offices of Stone & Webster.
- Built a strong fossil power project execution capability resulting in award and successful execution of several large fossil power life extension projects in Canada.
- Held various positions providing engineering services to process and power industries.