



## Kaypear Consulting

**Consultant:** Rahul Raman, Director / Principal Engineer of Kaypear Consulting

**Skill:** 15 years of expertise in the areas of Process Safety Management Implementation, Hazard Identification and Risk Analysis, Relief System Design, Risk Reduction Strategy, & Process Safety Design and Development.

**Experience:**

- Developed and implemented Process Safety Management Programs in the Oil & Gas Industry, Petrochemical, and Pharmaceutical Industry
- Performed more than 400+ process hazard analysis and safety reviews throughout the lifecycle of the plant
- Chair and Co-Chair Technical sessions at the Plant and Process Safety Symposium at the AIChE Global Congress on Process Safety
- Developed Process Safety Guideline Documents with recognized Industry Practice
- Primary safety consultant for PSM Projects in a chemical facility. Provide technical stewardship, hand holding of young engineers, providing RAGAGEP facilitation, and helping them in implementation of PSM program.
- Provide Gap Assessment and Audit to identify weaknesses in the PSM program
- Published White Paper on Process Safety Information of Runaway Reaction of Styrene Monomer Storage Tank
- Provided Technical Facilitation to the High-Power Committee set up by the Government of Andhra Pradesh for identifying the Root Cause Analysis on Styrene Vapour Leak at LG Polymers India Pvt Ltd
- Active participation in the DIERS Users Group and presented several papers
- Course Contributor and Instructor of AIChE Basic DIERS Course ([CH172](#))
- Extensive experience conducting all types of relief system designs from simple to complex, and multi-vessel modeling.
- Designed several branched blowdown vent header systems, dispersion modelling, and Quantitative Risk Assessment
- Extensive experience coordinating laboratory tests, using lab results to generate reactive hazards management program
- Experience using several commercially available software with SuperChems, SAFIRE, Aspen, Hysys, iPRSM, PPM, PHA Pro, and client-based tools
- Large Risk Mitigation Project that covered Mechanical Integrity feasibility studies, Calculation of MAWP and Design Pressure for weak tanks, Process Safety Information Records Management, Risk Based Inspection, and Completion of HAZOP Action Items

**Education/**

**Other:**

Master in Chemical Engineering, Carnegie-Mellon University  
Bachelor of Technology Chemical Engineering, Anna University  
Senior Member AIChE

