

R. R. BALAKRISHNAN

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1. QUALIFICATION

B. Tech in Chemical Engineering

2. TECHNICAL EXPERTISE IN RELATION TO PROCESS PLANT

- Experienced in **Process Development**, (Catalytic hydrogenation using Palladium on Carbon Catalyst.)
- **Erection and running of Bulk Drug Unit.** Project Engineer for Chloro Alkali and VCM/PVC project with exposure to procurement of equipments, technical bid short-listing and project schedule.
- **Safety / Insurance Consultant** for Phenol / Acetone Plant, PTFE Unit, Caprolactum and DMT Plant at the Project stage with reference to Plant Layout, Project Insurance etc.
- **Experienced in Consequential Loss Assessments, Material Damage, Advance Loss of Profits**, Advising Large Corporate Facilities on Layouts, Fire Protection, Risk Analysis, HAZOP, Emergency Planning and Insurance Portfolio Management.
- Refer attached on works experience of various type of industry.

3. INSURANCE WORK EXPERIENCE

3.1 International exposure on Insurance related studies.

Undergone insurance studies in

- Norwich Union, UK
- British Engines, UK
- Storebrand International, Norway
- Scandia Insurance, Sweden

3.2 Underwriting

- Worked as an **Insurance Underwriter** for Refinery, Petro Chemicals, Fertilizers, Power Plants, Chemical Units, Steel Plants and Engineering Industry, in major Insurance Portfolios. (EAR, Fire, Fire LOP, Machinery Insurance, MBLOP)
- Evolved (for General Insurance, Corporation) Petro Chemical/Refinery tariff - norms for Insurance.
- Undertaken Risk inspection of over 250 major / medium scale risks for (1) portfolio's analysis, (2) Risk analysis (3) PML estimation, (4) for granting liability covers.
- Was a consultant for public liability tariff for GIC (General Insurance Corporation)

3.3 Insurance Claims

List of claims assessed as a loss adjuster runs to few hundreds. The loss assessment includes,

- Marine Transit loss
- Engineering claims such as Erection All Risk, Machinery Breakdown, Boiler Explosion, Advanced Loss of Profit.
- Fire and allied perils survey on major losses including Business Interruption losses.

The claims quantum per claim (maximum) 30 million US\$ in fire consequential loss. Advanced loss of profit about 50 million US\$.

3.4 Association with International Surveyors in work

- Worked as Technical Consultant on claim (ALOP) with Cunningham Lindsey, UK.
- Mr. Straun Robertson of Robertson and Company.

4. RISK MANAGEMENT EXPOSURE

4.1 Technical Exposure

- Carried out Risk analysis, hazard and operability (HAZOP) studies, safety audit, total Risk Management solution and disaster management programme for Corporate.

4.2 Work Experience in Risk Management

- Worked as Risk Management Engineer.
- Involved in Risk analysis, safety inspection of numerous companies and other major industrial houses. (Refer attached sheet).

5. POSITIONS HELD

- Former C.E.O for India of **Allianz Alpic Industrial Risk Management Services Ltd.**
- Technical Committee Member of **National Safety Council – Tamilnadu Chapter.**

6. CONTRIBUTION AS FACULTY

- Visiting faculty for **National Insurance Academy** formed by GIC/LIC.

7. AWARDS

- Winner of '**RASOI**' Award for technical paper on certain aspect relating to fire and explosion hazard in vegetable oil processing units.

8. COUNTRIES IN WHICH INSPECTIONS CARRIED OUT

- India
 - Srilanka
 - Indonesia
 - Malaysia
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WORK EXPERIENCE IN RISK & INSURANCE RELATED AREA

Pharmaceutical/Bulk Drug

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| 1. CIPLA Ltd | HAZOP Studies, Safety Audit, Process Safety Studies, Insurance Portfolio Analysis |
| 2. Mediacorp Technologies Ltd | HAZOP Studies, Safety Audit, Process Safety Studies, Insurance Portfolio Analysis |
| 3. Orchid Chemicals & Pharmaceuticals Ltd | Safety Audit |
| 4. Searle India | Risk and Safety Studies of new Plant at the blue print stage. |
| 5. Intermed Pharma | HAZOP Studies, Safety Audit, Insurance Portfolio Analysis |
| 6. Glaxo (India) Ltd | Public Liability Studies |

Oil exploration

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| 7. Cairn Energy Pty Ltd | Insurance Analysis |
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Oil Refinery

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| 7. Madras Refineries Ltd | Insurance Portfolio Analysis |
| 8. Kochi Refineries Ltd | Insurance Portfolio Analysis |
| 9. HPCL | Insurance Portfolio Analysis |

Petrochemicals

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| 9. Reliance Industries Ltd | Public Liability Exposure Studies |
| 10. Manali Petrochemicals Ltd | Public Liability Exposure Studies for Insurers |
| 11. Indian Petrochemicals Corporations Ltd | Insurance Portfolio Analysis for Insurers |
| 12. Thirumalai Chemicals | Insurance Portfolio Analysis for Insurers |

13.	Chemplast Sanmar Ltd	Safety Audit
14.	Haldia Petrochemicals Ltd	Insurance Portfolio Analysis
15.	DCM Shriram Consolidated	HAZOP Studies, Safety Audit

Pipeline

16.	Petronet CCK Ltd.,	Insurance Portfolio Analysis
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Fertilizer

17.	Zuari Agro	Insurance Portfolio Analysis - for Insurers
18.	Madras Fertilizers Ltd	Insurance Portfolio Analysis- for Insurers
19.	Fertilizer and Chemical Ltd	Public Liability Exposure Studies- for Insurers
20.	Rashtriya Chemicals and Fertilizers Ltd	Public Liability Exposure Studies- for Insurers
21.	SPIC Ltd	Insurance Portfolio Analysis- for Insurers
22.	EID Parry (India) Ltd	Public Liability Studies- for Insurers

Tank Farm

23.	IMC Ltd	Safety Audit, Insurance Portfolio Analysis
24.	United Storage and Tank Terminals Ltd	Safety Audit, Insurance Portfolio Analysis

Warehousing Logistic Suppliers

25.	Sembawang Shriram Integrated Logistics (P) Ltd	Safety Audit, Insurance Portfolio Analysis
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Organic Chemical Manufacturers

26.	Hindustan Organic Chemicals Ltd	Insurance Portfolio Analysis
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Amine Manufacturer

27. Alkyl Amines and Chemicals Ltd Insurance Portfolio Analysis

Distillery

28. McDowells Ltd Safety Audit, Insurance Portfolio Analysis

Paints Manufacturer

29. Asian Paints (India) Ltd Risk and Insurance Studies

Leather and Chemical Manufacturer

30. BTP India Ltd Safety Audit

31. EID Parry (India) Ltd Public Liability Studies

32. Ultramarine and Pigments Ltd Insurance Portfolio Analysis

DMT Manufacturer

33. Garware Chemicals Ltd HAZOP Studies, Insurance Portfolio Analysis

Power

34. Gujarat Industrial Power Corporation Ltd Public Liability Studies

35. Essar Power Ltd Insurance Portfolio Analysis

Integrated Iron and Steel Plant

36. Essar Steel Ltd Risk and Insurance Portfolio Analysis

Nylon Tyre Chord Manufacturer

37. SRF Ltd Safety Audit

Cycle Manufacturer

38. TI Cycles of India Ltd Safety Audit

Indonesian Plants

Textile

39. PT Pacific Texindo Industri Safety Audit, Insurance Portfolio Analysis

Tea Packing Unit

40. PT Pacific Agritama Industri Safety Audit, Insurance Portfolio Analysis

Powdered Milk

41. PT Pacific Indo Dairy Safety Audit, Insurance Portfolio Analysis

Vegetable Ghee

42. PT Pacific Medan Safety Audit, Insurance Portfolio Analysis

Palm Oil Refinery

43. PT Pacific Palm Indo Industries Safety Audit, Insurance Portfolio Analysis

Soap & Glycerine Manufacturing Unit

44. PT Oleochem and Soap Industries Safety Audit, Insurance Portfolio Analysis

Malaysian Plants

Palm Oil Refinery

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| 45. | Unitata Malaysia | Safety Audit, Insurance Portfolio Analysis |
| 46. | Pacific Oils & Fats Industries SDN BHD | Safety Audit |
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SriLanka

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| 47. | Fertilizer Unit | Insurance Portfolio Analysis |
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