

Consultancy Services

Bridging Process Development and Manufacturing with Independent Technical Expertise

Dr. Bhaskar's Process Solutions (DBPS) provides independent scientific and technical consultancy services to pharmaceutical and chemical companies, CROs and CDMOs involved in the development and manufacture of APIs, intermediates and specialty chemicals.

We help translate chemical knowledge and laboratory processes into robust, scalable, reproducible, safe and practical manufacturing processes. DBPS complements internal technical teams with independent scientific perspective, industrial process-development experience and practical problem-solving support when additional expertise or focused technical intervention is required.

OUR APPROACH

Independent expertise. Practical problem-solving. Collaborative implementation.

DBPS works alongside internal technical teams to:

- Understand the technical challenge and objectives
- Review process knowledge, data and development history
- Identify technical gaps, assumptions and risks
- Provide an independent scientific and technical perspective
- Develop practical and technically sound solutions
- Support implementation, scale-up and technology transfer as required
- Transfer knowledge to strengthen internal capabilities

From Chemistry to Manufacturing

Chemistry → Process Development → Scale-Up → Technology Transfer → Manufacturing

We help clients bridge these stages with a technically sound and practical approach.

Our objective is to complement internal expertise and create sustainable value for the organization.

AREAS OF CONSULTANCY SUPPORT

Successful process development requires consideration of chemistry, process robustness, quality, safety, scale-up, cost, timeline, sustainability and manufacturability as interconnected considerations. DBPS provides independent scientific and technical support across these areas, helping clients evaluate technical challenges, identify risks, make informed process decisions and translate development knowledge into robust, scalable and practical manufacturing processes.

Our consultancy support includes:

- **Route and process assessment** — evaluating whether an existing synthetic route is practical and scalable.
- **Process optimization** — improving yield, selectivity, reaction conditions, work-up, and purification.
- **Impurity understanding and control** — identifying sources of impurities and developing strategies for their control.

- **Scale-up support** — identifying and addressing risks when moving from laboratory to larger scale.
- **Crystallization and solid-state aspects** — improving isolation, crystallization, polymorphism, particle size and product quality.
- **Process safety and risk assessment** — identifying reaction hazards and critical process parameters.
- **Process intensification** — evaluating approaches such as flow chemistry, continuous processing and other technologies to improve process efficiency, safety and scalability where appropriate
- **Technology transfer** — helping translate process knowledge from R&D into manufacturing.
- **Troubleshooting** — providing an independent perspective when an internal team encounters a persistent technical problem.
- **Technical assessment and strategy** — providing independent technical assessment to support decisions on process-development options, technical risks, resource requirements and development priorities.
- **Technical Due Diligence & Project Support** — identifying and evaluating external technical resources, vendors and partners; supporting technical due diligence; and providing independent technical oversight and periodic review of project progress against agreed objectives, timelines and deliverables.
- **Sustainable process development** — evaluating opportunities to improve resource efficiency, reduce waste and improve the overall sustainability of chemical processes.

DBPS can combine these capabilities as needed to address specific technical challenges across the development, scale-up, technology-transfer and manufacturing lifecycle.

HAVE A PROCESS CHEMISTRY CHALLENGE?

Whether you are:

- Developing or evaluating a synthetic route
- Optimizing an existing process
- Troubleshooting a scale-up or manufacturing problem
- Assessing impurities or crystallization
- Preparing for scale-up or technology transfer
- Assessing process-safety risks
- Evaluating process-intensification or sustainability opportunities
- Seeking an independent technical review or due diligence

DBPS can provide focused scientific and technical support tailored to your needs.

Let us discuss your technical challenge and explore how DBPS can contribute.

ABOUT THE CONSULTANT



Dr. P. Muni Bhaskar, Ph.D.
Founder & Chief Scientific Strategist
Dr. Bhaskar's Process Solutions



Dr. P. Muni Bhaskar is an organic chemist and process-development professional with over 21 of experience in pharmaceutical and chemical process R&D and manufacturing support. He founded Dr. Bhaskar's Process Solutions to support pharmaceutical and chemical organizations with scientific expertise, practical industrial solutions and capability-building. His expertise spans process research and development, route selection, process optimization, scale-up, technology transfer, process safety, impurity management, crystallization, polymorphism and process intensification.

He holds a Ph.D. in Chemistry from the Indian Institute of Technology (IIT) Madras and completed postdoctoral research at RWTH Aachen University, Germany. He holds a M.Sc. in Chemistry from Sri Venkateswara University, Tirupati, and has completed Lean Six Sigma professional training through the American Society for Quality (ASQ). He has authored research publications, filed patent applications and published technical thought-leadership articles on process chemistry.

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We drive innovation with collaboration.