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### **Career Summary**

- Photochemicals/extracts isolation and purification from concept to commercialization.
- Selection of appropriate equipments for scale up of the process-from bench scale to production level.
- Distillation of solvents with minimum loss.
- Process optimization for yield/costing evaluation.
- Running analytical lab (equipped with HPLC, UPLC, UV, GC, GC-MS, AAS) for QA/QC of phytochemicals.
- Method development on the above mentioned analytical equipments.
- Wet analysis.
- QA/QC (validation of analytical methods/process, batch records, IQ/OQ/PQ/DQ)
- Clinical trials
- New Product Development- Dietary supplement

### **Job Profile at Food Ingredients Solutions LLC (01 Oct.2010 onwards)**

#### **Project Head-Phytochemicals**

Purification of Natural Ingredients using adsorption chromatography, ion-exchange Chromatography, reverse phase chromatography at lab and scale-up to production level. I am also using TFF, MF, DF for purification process.

I am overall responsible for Phytochemical purification and isolation project execution – from conceptualization at R&D to selection of appropriate equipments (For extraction, concentration and purification) and finally in getting efficient production using these equipments. Phytic Acid (98%) from rice bran, 1000 lb production batch, and project has been accomplished.

Setting-up quality control lab for phytochemicals, nano particle-emulsions (Malvern particle size analyzer, APV homogenizer) project, and accomplished Beta-carotenoids nano particle emulsion.

Expert knowledge on natural products/colors, emulsion and microscopic properties of emulsions, and crystallization of natural products.

### **Job Profile at Javapant, Indonesia ( 01 April 2008- 30 Sep.2010 )**

As **Director-R&D** my responsibilities were defined as follows:

- Develop new natural products- from conceptualization stage to successful launch in the market
- Responsible for test method development and validation for natural products.
- Selection of appropriate equipments at production for scale-up.
- Executing the production plans and monitoring the day to day production activities.
- Effective resource planning for optimizing men & machines utilization.
- Ensure complete in-process quality control and continuous improvement in process capabilities.
- Execute the latest manufacturing processes for better yield and efficiency.

- Ensure compliance of quality measures.
- Maintenance of appropriate documentation/ records.
- Training of the employees, pertaining to quality implementation and compliance.
- Set up manufacturing facilities/ new equipment for production and testing facilities/procedures.

This lab had HPLC with ELSD and DAD detector, UPLC, UV, GC-MS, GC-HS, AAS.

- Setting up Laboratory for New product / New methods of testing/Clinical Trial for Market endorsement of the Product.
- know how to do liquid-liquid separation, vacuum concentration, belt drying, drum drying and spray drying.

#### **Job Profile At KANCOR INGREDIENTS LTD as GM- Phytochemicals ( 01 May 2007 to 31 March 2008)**

Overall responsible for Phytochemical business – Introducing new products from concept to commercialization.

Successfully launched Camptothecin, an anti-cancer molecule, from lab scale to 3 ton production batch.

#### **Job Profile At Cymbio Pharma P Ltd as GM- Works( 01 Jan 2007to 30 April 2007)**

Overall responsible for Phytochemical business- – Introduced new products from concept to commercialization. I have launched successfully Chlorogenic Acid 60% from lab scale to 7 Ton production level.

#### **Job Profile At INDIGENE PHARMA P LTD ( 24 Nov2005 to 31 Dec 2006)**

I was responsible for contract manufacturing across the globe as **Associate Director (QC)**.

I was the QA representative to development, launch, product transfer teams and market product supply. I used to work with development/ transfer teams and Supply Chain to ensure quality requirements for product transfers, new products, changes and market supply were met.

I was working closely with R&D (or affiliate, etc.) and the sites to assure issues are addressed in a timely manner and that appropriate activities were scheduled and completed.

I was reviewing/approving technology transfer documents assuring they meet regulatory, international and Indigene requirements.

I had participated in specification setting discussions and aligned specifications accordingly.

I had performed mock pre-approval inspections at manufacturing sites and support sites for FDA/International audits.

I had maintained an up-to-date knowledge of relevant International and US compliance and regulatory requirements as well as current industry practices.

[I had received appreciation letter for my contribution in the growth of company from the Chairman.](#)

#### **Job Profile at Indena India Private Ltd ( 01 Oct 94 to 23 Nov2005)**

##### **As Manager(QA,QC,R&D and Tech.)**

I had worked for 11 years at this company. A subsidiary of the Italian multinational Indena s.p.a., Italy and deals in botanical extracts with cultivation sites & production facility .The company is a 100% EOU unit at Bangalore,India.

During my association with Indena, I had attained expert knowledge of TLC, HPLC, GC and method development on these equipments.

I was also trained at Milan, Italy for one year (1998-99). They trained me for preparing dossiers related to HPLC and GC according to FDA & ICH guidelines.

The plant & Laboratory at Italy are FDA approved. They also trained me for stability studies, validation documentation, residue analysis by headspace GC, process validation (concurrent), preparation of SOP.

At Bangalore's facility, I had managed a laboratory which had 5HPLC(1 of Shimadzu & 4 of Waters), Water's HPLCs are attached with ELSD and DAD detectors, two GC(Varian, Agilent),UV(Shimadzu). Waters HPLC run by Millennium software, Agilent GC by Chemstation Software, Shimadzu HPLC run by CLASS VP software and Varian by Star software.

I had attended two day training of LCMSMS at Waters, Bangalore at 28-29 Oct2003.

During career progression job responsibilities also extended to development of analytical methods, extraction procedures, scale-up, process analysis, reconciliation of labels, launch of campaign, Writing SOP, Writing Specifications according to European Pharmacopeia, Writing MBRs, Process validation, Process risk analysis, Validation Process Protocol, IQ/OQ of production facility (like Reactors, Rectification column, Dryer, extraction)

### **Summary of Skills and Experience gained at Indena**

- Project execution and contract manufacturing
- 11 years of experience in residual analysis, production control, raw material, finished products using TLC, HPLC, UV and GC equipment.
- Extensive experience of managing Laboratory & Plant operations like crystallization, solvent-solvent extraction, working over the extraction reactors and isolation of natural molecules
- Process validation at plant & cleaning process
- Preparation of MBR
- Preparation of SOPs, validation protocol, process risk analysis, OOS, etc

### **Career Path at Indena**

from Oct'00 to Nov05	Manager (Technical, R&D, QA and QC)	Indena India Pvt. Ltd.
1999 to Oct'00	Technical Manager	Indena India Pvt Ltd
1998 to 1999	Technical Manager	Indena s.p.a., Italy
Sept'97 to Sept'00	Technical Manager	Althea Intl., Ballabgarh
Sept'95 to Aug'97	Dy. Technical Manager	Althea Intl., Ballabgarh
Oct'94 to Aug'95	Asst. Analytical Manager	Althea Intl., Ballabgarh
Jan'94 to Sept'94	Chemist	Alchem Intl., Ballabgarh

### **Achievements at Indena India**

- Expert in running the continuous operations at lab as well as Extraction plant.
- Successfully launched Colchicoside/Colchicine and Sennosides 60%.
- Distinction of managing operations with lowest shut down periods lasting 4-5 hours and the lowest maintenance costs
- Validate manufacturing process.
- Set Specifications according to EC.
- Training of QA/QC personnel.

**From Aug'91 to Jan'94 as Sr. Research Fellow at GB Pant University of Agriculture & Technology, Pantnagar**

### **Thesis Details**

Title : Residual & Persistence studies of new herbicides Fluzifop-p-butyl & Anilophos

Methodology: Developed the extraction procedure for herbicides from soil, green leaves and grains. HPLC method development for herbicides Fluazifop-p-butyl and Anilophos.

Ph.D research work has been published as a chapter in the book "Pesticide, Crop Protection and Environment" Edited by S. Walia and B.S. Parmar, Oxford & IBH, 1995, xxvii, 600 p, tables, ISBN : 81-204-1019-

Paper Published: Reverse phase HPLC method for Residue analysis of herbicides Fluazifop-p-butyl & Anilophos in soil soybean grain and straw.

**From Sept'90 to Aug'91 as Chemist with Pashupati Acrylon Ltd., Moradabad**, a 200 crore company in collaboration with SNIA BPD (FIAT GROUP) of Italy. The company is a pioneer in manufacturing of Acrylic Fibre

### **Key Tasks Handled**

- Part of setting-up the laboratory and spearheaded the commissioning of the plant.
- Involved in water analysis according to APHA guidelines, GC analysis ,IR predictions, KF analysis and titrimetric Analysis, COD, BOD, raw material analysis, production control.
- Production Data Management.

### **IT Skills and Education**

- SWIFT from NIIT, Faridabad in 1996. Subjects of study included DOS, LAN and MS-Office.

### **Management Education and trainings**

- "Project Management and Change control" – 29-30 July 2010 in Jakarta, Indonesia
- Attended training in June 2006 at ISB Hyderabad- Making world class teams
- MBA (Marketing) from IGNOU in 2003
- PG Diploma in Marketing Management from IGNOU in 2002
- PG Diploma in Management from IGNOU in 2001
- Diploma in Management from IGNOU in 1999.

**Name:** Dr. SANDEEP KUMAR KULSHRESTHA

MARRIED

**Date of birth:** 08Sep1965

**ACADEMIC QUALIFICATIONS**

Class	University	year	Div.	Subjects
10	UP Board, India	1980	II nd	Mathes,Science,Technical Art, Hindi, English
12	UP Board, India	1982	I st	Mathes,Physics,Chemistry Hindi, English
B.Sc.	Allahabad University, India	1984	II nd	Mathes, Physics, chemistry
M.Sc.	Kanpur University, India	1989	I st	Organic Chemistry
Ph.D	Rohilkhand University, Bareilly, India	June 1996	N/A	Chemistry (Analytical work using HPLC, UV)
SWIFT	NIIT, Fridabad	1996	B	DOS, LAN, MS-Office
Diploma in Management	India IGNOU, Delhi	June 1999	N/A	MANAGEMENT FUNCTION &BEHAVIOUR MANAGING MEN,ECONOMIC &SOCIAL ENVIRONMENT,ACCOUNTING &FINANCE FOR MANAGERS,INFORMATION MANA- GEMENT & COMPUTERS
PG Diploma in Management	India IGNOU, Delhi	Dec2001	N/A	Subjects of DIM, Management of Machines & Materials, Marketing For Managers, Quantitative Analysis for Managerial Applications,
PG Diploma in Marketing	India IGNOU, Delhi	June 2002	N/A	Managerial Economics, Organizational Design

Management				Development & Change, Corporate Policies & Practices. Consumer Behavior, Sales Management, Product Management, International Marketing, Marketing of services
MBA-Marketing	India IGNOU, Delhi	Dec.2003	3.41/5, C	All subjects of DIM+PGDIM+PGDIMM & Strategic management, Research Methodology for management decisions, International marketing.

**PROFESSIONAL EXPERIENCE :**

From	To	Designation	website	Name of company	Note
01 Oct.2010	current	Project Head-Phytochemicals	<a href="http://www.foodcolor.com">www.foodcolor.com</a>	Food Ingredient solutions LLC, NJ, USA	
01 April 2008	30 Sep. 2010	Director-R&D	<a href="http://www.javaplant.net">www.javaplant.net</a>	Javaplant, Jakarta, Indonesia	
01 May 2007	31 March2008	GM-Phytochemicals	<a href="http://www.kancor.in">www.kancor.in</a>	Kancor Ingredients Ltd, Cochin, India	
01 Jan2007	31April2007	GM-works	<a href="http://www.Cymbio.co.in">www.Cymbio.co.in</a>	Cymbio Pharma, Bangalore India	
24 Nov.2005	31 Dec.2006	Associate Director-QC	<a href="http://www.indegenepharma.com">www.indegenepharma.com</a>	Indigene pharma, Hyderabad, India	
01Oct2000	23Nov2005	Manager-QA,QC,R&D, Tech	<a href="http://www.Indena.it">www.Indena.it</a>	Indena India (p)Ltd,	

				Bangalore, India	
01Sep97	30Sep2000	Technical Manager	<a href="http://www.Indena.it">www.Indena.it</a>	Althea International, Ballabgarh Haryana	
01Sep1995	30August97	Dy. Technical Manager	<a href="http://www.Indena.it">www.Indena.it</a>	Althea International, Ballabgarh Haryana	
01 Oct.94	30 August95	Asstt. Analytical Manager	<a href="http://www.Indena.it">www.Indena.it</a>	Althea International, Ballabgarh Haryana	
25 Jan.94	30 Sep94	Chemist	<a href="http://www.alcheminternational.com">www. alcheminternational. com</a>	Alchem International p Ltd, Haryana, India	
10 August91	24Jan.94	Senior Research Fellow	<a href="http://www.gbpuat.ac.in">www.gbpuat.ac.in</a>	GB Pant University of Agriculture & technology, India	
17 Sep.90	09 August91	Chemist	<a href="http://www.pasupatiacrylon.com">www.pasupatiacrylon. com</a>	Pasupati Acrylon Ltd, India	

**\*TOTAL EXPERIENCE 20 YEARS.**

**OVERSEAS EXPERIENCE**

1. In YEAR (1998-99) at INDENA s.p.a , **ITALY** (net 6 month in 2 terms), world leader in natural plant extracts.
2. 11-15 March 2006 to **Singapore** for contract manufacturing.
3. Visited Supply Side East Exhibition at **New Jersey** in April 2008
4. Visited IFT 08 food expo on June28- July1 2008 at **New Orleans**, US.
5. Keynote speaker at Tea Board conference at **Solo, Indonesia** on 15 October, 2009
6. Keynote speaker at Health food & ingredient **Thailand**, (March 10-13,2010)
7. 2.5 years in **Jakarta, Indonesia**