INTRODUCTION/BIOGRAPHY

Dr. Raman Mohan Singh

1. * Joined as Director, Pharmacopoeia Commission for Indian Medicine & Homoeopathy (PCIM&H), Ghaziabad under the Ministry of Ayush, Govt. of India on 1st November, 2022 and will be responsible/work as Chief Executive Officer (CEO) and Chief Scientific Officer (CSO) of the commission.

* Served about 7½ years as Director, Central Drugs Testing Laboratory, Mumbai (Level-13) under CDSCO, DGHS, Ministry of Health & Family Welfare, Govt. of India from 7th May, 2015 to 31st October, 2022.

* Also serving as **additional charge** as **Director In-charge for National Tobacco Testing Laboratory – Mumbai** established at CDTL-Mumbai through Tobacco Division, DGHS, under National Tobacco Control Programme (NTCP), Ministry of Health & Family Welfare, Govt. of India from May 2015 to 31st Oct, 2022.

* Also serving as **additional In-charge Deputy Assistant Director General (DADG) of Government Medical Store Deport (GMSD)-Mumbai** under Medical Store Organisation (MSO) of DGHS, Ministry of Health & Family Welfare, Govt. of India, from 10th Oct, 2018 to 31st Oct, 2022.

* **Member of Scientific Body of Indian Pharmacopoeia Commission – (IPC) for 2017-21.**

2. Worked as **Senior Principal Scientific Officer** (Level-13) in **Indian Pharmacopoeia Commission**, Ministry of Health & Family Welfare (Govt. of India), Ghaziabad before leaving the IPC on 6th May, 2015.

3. **M.Sc., (Organic Chemistry) – 1988, Ph.D. (Bio-inorganic Chemistry)** as Senior Research fellow of CSIR in Dept. of Chemistry, Delhi University, Delhi from 1989 to 1993.

4. **Total more than 36 years of Experience** in the field of Research, Quality Assurance and R & D related to analysis of Drugs and Pharmaceutical products including about 20 years for supervision of the same.

A **More than 05 years Research Experience** after post-graduation in Department of Chemistry, Delhi University, Delhi.

B. **More than 10 years in private sector** like – Shri Ram Test House, Delhi, Win-Medicare, Meerut and in Unichem Laboratories, Ghaziabad as **Analyst and Quality Assurance Officer.**

C. **More than 14 years of experience in CIPL / IPC, Ghaziabad.**

- As **Senior Scientific Officer (Head - R&D)** (08 years) in Central Indian Pharmacopoeia Laboratory (CIPL) Ghaziabad, CDSCO, DGHS, Ministry of Health & Family Welfare, Govt. of India.
- As **Principal Scientific Officer and Senior Principal Scientific Officer (Director rank)** (06 years) in Indian Pharmacopoeia Laboratory (IPL) at IPC, Ghaziabad.
- Designated as **Quality Manager for NABL (ISO-17025:2005)** accredited lab. i.e. Indian Pharmacopoeia Laboratory (IPL) for Chemical and Biological Testing.
- **Also as coordinator for Standard Development** both – Monographs Development for IP, and – IP Reference Standards Development.
- Supervised and coordinated the team for publishing of Indian Pharmacopoeia Addendum 2002 to IP-1996, Addendum 2005 to IP-1996, IP-2007 (V^{th} edition) and its Addendum 2008, IP-2010 (VI^{th} edition) and its Addendum 2012 and for IP-2014 VII^{th} edition and its Addendum 2016.
- Organised as Convener all the meeting at IPC related to IP Review Work and Development of Standards including Monographs and Reference Standards.

D. **More than 07 years experience as Director** in **CDTL-Mumbai leading the CDTL-Mumbai having following Achievement :**

i) **NABL : (ISO/IEC 17025:2017 in Chemical & Biological Testing)**

ii) **Integrated Management System (IMS)**

ISO 9001 : 2015 stands for Quality Management System.

ISO 14001 : 2015 stands for Environmental Management System

ISO 45001 : 2015 stands for Occupational Health & Safety Management system

iii) **Statutory & Other Major Functions :**

- Analysis of Drugs and Pharmaceuticals, Cosmetics and Medical Devices in terms of schedule to the Drug & Cosmetics Act, 1940 & rules there under so as to specify the Standards of identity, purity & strength for the drugs imported, manufactured for sale, stocked or exhibited for sale or distribution in India.

- The Director, CDTL-Mumbai acts as "Appellate Authority" as per Drugs & Cosmetics Act, 1940 for the testing of Copper T and Tubal Rings (Intrauterine Contraceptive Devices).
- Analysis of Import drugs & Cosmetics samples entering through the port offices.
- Analysis of Registration samples for approval of site registration as per GMP.
- Analysis of New Drugs to get license for manufacturing the same.
- To undertake Analytical Research on standardization and methodology of Drugs.
- Analysis of Drugs & Pharmaceutical formulations received as Survey Samples from Central Drugs Standard Control Organisation and its Zonal Offices.
- Analysis of Drugs & Pharmaceutical formulations received as National Survey sample from CDSCO or other offices under Ministry of Health & Family Welfare.
- Imparting training to Drug Regulatory officials deputed by the Government laboratories from time to time.

iv) Infrastructure Development :

- **Utilised all the budget allotted in minor/major head through CPWD Mumbai.**
- **Categorized different sections in the Administrative, Biological and Chemical Divisions by creating two new sections of Analytical R&D, Quality Assurance, Training Cell and IP Cell, Reference Standard Section etc.**
- **Procured all required major/minor sophisticated instrument required and enhanced the testing capacity.**
- **Implemented of Accessible India Programme of Government of India.**
- **Maintained Green campus through Horticulture Division of CPWD first time by**
- **Set up of Yoga & Exercise room for the welfare of staff**
- **Tobacco Free Zone.**

v) Testing Performance :

- **Enhanced samples testing output from about 2000/2500 samples to more than 4000 samples per year.**

- **Contributed in National Drugs Survey Programme conducted by the Ministry of Health & Family Welfare, CDSCO through NIB, Noida by analyzing about 6000 samples in the year 2015-16.**

vi) Risks Based Inspection Training :

- **As Trainee to the staff of CDSCO, DI, ADC, DDC for Central and State**
- **Audit of about 100 pharma company done by 15 trained staff of CDTL-Mumbai**

vii) Research and Development :

viii) Training Cell :

ix) External Training :

x) Revenue generation in the form of testing fees :

xi) Training for Newly recruited DI's CDSCO :

xii) Strengthening of Human Resources :

xiii) E-Governance and E-office :

xiv) Involved in setup of mini laboratories at port office in Mumbai and Zonal Laboratories at Indore and Bhubaneshwar :

xv) Setup of National Tobacco Testing Laboratory :

xvi) Contribution in upgradation of BIS and Indian Pharmacopoeia :

5. **Supervised and coordinated the team for publishing of Indian Pharmacopoeia** Addendum 2002 to IP-1996, Addendum 2005 to IP-1996, IP-2007 (V^{th} edition) and its Addendum 2008, IP-2010 (VI^{th} edition) and its Addendum 2012 and for IP-2014 VII^{th} edition and its Addendum 2016.
6. **Organised as Convener all the meeting at IPC related to IP Review Work and Development of Standards including Monographs and Reference Standards.**
7. **Research Work ;**
   - **A.** **Published more than 100 Research Papers** on method development/analytical research of drugs and Pharmaceuticals in International/National reputed journals.
   - **B.** **Presented more than 50 Research Papers** in different Indian Pharmaceutical Congress and in other Scientific Symposium by the R&D team in last Fifteen years.
   - **C.** Written a chapter on "Pharmacopoeial evolution of Phyllanthus Species" in a **International Book** on Phyllanthus Species for Verginia Commonwealth University, USA.
8. **Expert Member of European Pharmacopoeia (EP) EDQM** from 2007-08 to 2011-12.
9. **Expert member for USP-IP standard Development programme for 2009-2014.**

10. Member:

- Member of newly constituted Scientific Body of Indian Pharmacopoeia Commission (IPC) from 2017-21.
- Member of Expert Committee of IPC for "Reference Standards and Impurities".
- Member of Expert Working Group for "Review Indian Pharmacopoeia Amendments" from 2015 to 2019.
- Drugs Consultative Committee of CDSCO as Director of CDTL, Mumbai
- IPC-USP Joint expert team for monograph/Reference Standard Development (2005-2010).
- Co-ordinator for IPC-USP collaboration and Joint working.
- Member of different council/committees of BIS.
- Member of different DPC and Administrative Committees of different Government offices/institutions.
- Member of CDSCO Advisory Committee for Training.
- Member of Institute Ethic Committee of NIB, Noida.
- Member of Obstetric and Gynecological Instruments and Appliances Sectional Committee, MHD 03 of BIS.
- Member of Inorganic Chemicals Sectional Committee, CHD 1 of BIS.
- Member of Tobacco and Tobacco Products Sectional Committee, FAD 4 of BIS.
- Member of Cosmetics Sectional Committee, PCD 19 and its Subcommittees of BIS.
- Member of Medical Equipment and Hospital Planning Division Council (MHDC) of BIS.
- Member of Technical Committee of National Institute of Training for Standardization.

11. Member of International Working Group under ISO-TC-217 on Cosmetics and Paralled Working Groups.

1. ISO/TC 217/WG 07 "Sun protection test methods"
2. ISO/TC 217/WG 03 "Analytical methods"

12. International Visits :

1. **Visited USP, Head Quarter, Rockville, USA** in 29th April – 3rd May, 2012 leading the IPC Scientific Delegation.
2. Attended **"15th Meeting of ISO/TC/217 on Cosmetic and parallel WG" held at Dubai** during 7th to 11th December 2015.

3. Deputed for **"Inspection of overseas drug manufacturing facilities for GMP compliance verification"** at **China** during 30th October, 2O17 to 11th November, 2017 with other CDSCO Officials DDC and ADC)
4. Attended **34th meeting of ISO/TC 126 on 'Tobacco and Tobacco Products' in May 2018 in Bordeaux, France** during May 28-31, 2018.
5. Attended tour programme of **"establishment of NTTL in India"** at CDC Atlanta, USA from 10th to 14th September 2018.

13. Presented as **Speaker/Faculty in more than 70 talks/lectures** in different International/National Workshops/Seminars of :-

- IPC-USP-Science and Standards Symposium from 2008 onwards.
- IPC-WHO-Workshops held at Mumbai, Chandigarh and Ghaziabad held in 2011-12.
- National Workshops on Herbals for Developing IP Monographs held in Mumbai, Delhi and Bangalore in 2007-08.
- Indian Pharmaceuticals Congress (IPC) from 2004 onwards.
- Induction Training Programme for Drugs Inspector from CDSCO at IPC, Ghaziabad in July, 2013 and in August, 2013.
- Training Programme for Govt. Analyst held at Mumbai in 2010 and currently conducted in IPC in 2013, 2014, 2015 & 2016.
- International Training Programme on "Advanced Analytical Techniques: Basic Principles & application quality assessment of drugs and pharmaceuticals for export" under the Indian Technical and Economic Cooperation (ITEC) & Special Commonwealth African Assistance Plan (SCAAP) program, held at NIPER, Chandigarh in November, 2013.
- Training Programmes organized by CDSCO at NIB for Drugs Regulators and Government Analysts for Training on Risk Based Inspection of Manufacturing facilities in 2015 & 2016.
- EQAAS Workshop for Laboratories at NIB-Noida on 2019.

14. Awards :

A. **Awarded for "Excellence in development of IP-2007"** in IDMA-IPP-EDQM workshop held in 2008 at Mumbai.

B. **Awarded for Best Research paper in the field of Pharmaceutical Analysis** in the year, 2013 published in Indian Drugs.

C. **Awarded for Dr. P.D. Sethi Annual Award-2010 for Best Research papers Certificate of Appreciation** for one Research Paper on HPTLC of R&D Team by ANCHROM, Mumbai.

D. **Awarded for Best Scientific Poster of Presentation** in IPC-USP-ASM held in Feb., 2008 and in Feb., 2009 held at Hyderabad.