Our Vision

Vision

To serve the masses by means of harmonisation of systems and practices in standardisation of drugs and pharmaceuticals.

Mission

Model Laboratory of South-East Asian Region with elements of integrated quality approaches to cater the total needs of pharmaceutical scenario.

Objectives

1. Standard Writing Institution
2. Reference Standards Providing Centre
3. Training Centre
4. WHO Collaborative Centre
For the first time since the establishment of Central Indian Pharmacopoeia Laboratory, Ghaziabad, in the year 1965, the activities of the laboratory have been brought out in a booklet form for circulation. This information is far from ideal and only a humble beginning. It is a great pleasure to acknowledge the sincerity and support of the officers and staff members of the laboratory and encouragement received from officials of Ministry of Health and Family Welfare. I am convinced that the outcome of our programmes is in the right direction and able to meet the targets assigned by the Govt. of India in terms of quality of works and emerging as a pool of knowledge for other laboratories including that of neighbouring countries for which it is established by inputs, cooperation, dedication & belongings of CIPL officials.

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Director
Govt. of India
Central Indian Pharmacopoeia Laboratory
Sector 23, Raj Nagar
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This Laboratory was established in the year 1965 in a rented building by late Dr. J.N. Tayal under the administrative control of Dte. General of Health Services, Ministry of Health & Family Welfare, it moved to its own building in 1975 under Dr. P.R. Pabrai. The present building was constructed in a phased manner, Phase I in the year 1974, Phase-II in the year 1977, Pharmacology Division in the year 1983 and Stores Block in the year 1991. Now the Laboratory has its own three storeyed building, centrally air-conditioned animal house, separate stores building, work shops, conference/seminar and committee room in lush green environment of seven acres of land. The Laboratory is self-contained in respect of water supply system, over-head water storage tank, pump house, centralised operative generating system of 225 KVA capacity. Besides, it has 24 hours security arrangement.

**About CIPL**

**OBJECTIVES**

At the time of establishment of CIPL the objectives were as under:

1. To draw-up standards and testing procedures for drugs to be incorporated in the Indian Pharmacopoeia.
2. To carry out work pertaining to National Formulary of India.
3. To assist Central Drugs Control Organisation in conducting the National Survey of Drugs & Cosmetics in the country.
4. To assist States for testing of Drugs and Pharmaceuticals including those covered under Schedule C & C1 as Government Analyst under Drugs and Cosmetics Act.
5. To assist the Medical Store Depot for assessing the quality of drugs to be purchased for supplying to Health Schemes.
It was then supplemented by incorporating the following objectives:

- To conduct Research & Development work in standardization and methods of drug analysis.
- To collaborate research with World Health Organisation and in the verification of development of basic test for Pharmaceutical dosage forms.
- To impart training to WHO fellows as well as to the Analysts sponsored by the State Governments.
- To act as an Appellate authority in the matters of disputes relating to quality of condom.
- To work as a Nodal Centre for testing, research and training of analysts of State Government Laboratories in respect of condoms.

**Organisational Set-up**

This Laboratory has ten Scientific and five Administrative wings manned by experienced scientists and staff.

**Scientific Divisions**
- Pharmaceutical Chemistry
- Microbiology
- Pharmacology
- Research & Development
- Medical Devices
- Pharmacognosy
- Cosmetics
- Indian Pharmacopoeia
- National Survey
- Sample Warden

**Administrative Divisions**
- Administration
- Library & Information Centre
- Cash & Accounts
- Stores
- Work Shop
Pharmaceutical Chemistry
This Division is divided into two sub-sections. Each of them has got its own supporting washing arrangement, weighing facilities and routine laboratory equipment. The Laboratory has got facilities for Infra Red Spectrophotometer, HPLC and Computerized Titration equipments, besides the other routine equipments. The division has two separate wet laboratories. The division is fully equipped to take care of all sorts of Pharmaceutical analysis.

Microbiology
This Division has separate sterility room, rooms for assay of Antibiotics, Vitamins and Disinfectants. It has separate room for culturing and sub-culturing, a media preparation room and washing room etc. The division has also the facilities of Bacterial identification and related Bio-Chemical work.

Pharmacology
This Division has centrally air-conditioned animal house, facilities for Pyrogen Testing, Undue Toxicity Studies, Histamine like substances, etc. The division also takes care of toxicological studies. It has also the facilities for Bio-assay for Oxytocin, Insulin, etc. The division has been further strengthened for taking up Bacterial Endotoxin Test (BET). All due care is taken for the upkeep and welfare of in-housed animals in the Animal House of the Laboratory. As per requirement of CPCSEA an Institutional Animals Ethics committee is constituted in CIPL, Ghaziabad to look-after and cater to the needs in accordance with “Breeding of and experimentation on Animal (Control & Supervision) Rules, 1998’
Research & Development

This Division has been conducting research & development of procedures employed in the testing of formulations. This division has published papers in international and national Journals; 75 papers have been published from this laboratory till date. The division is also supporting various divisions by providing facilities of sophisticated instruments centrally kept under the supervision of this division. The division is well equipped with latest instruments like UV Spectrophotometer, FTIR, Atomic Absorption Spectrophotometer, Spectrophotofluorimeter, Thin Layer Chromatography Densitometer coupled with auto sampling device and auto loading device, Gas Liquid Chromatography with FID detector, HPLC having isocratic as well as gradient solvent programming, Digital Polarimeter, Digital Refractometer, etc. Central Instrumentation of Research & Development division is fully air-conditioned with facilities of humidity control.

Medical Devices

The section is equipped with Tensilometer, Burst Volume and Pressure Equipment, Water Leakage Testing equipment etc. It takes up testing of medical devices with special reference to mechanical contraceptives as per ISO. It has also participated in International Inter-laboratory testing of condoms.

Pharmacognosy

This division of Pharmacognosy has got Herbarium museum. It takes care of phyto-chemical and pharmacognostical studies of various herbal based drugs used in allopathic system of medicines. The division also analyses samples relating to cotton, bandage, surgical dressings, sutures etc.
Cosmetics
All types of cosmetics and toiletries are being taken up for testing. The section has participated in the National Survey for the testing of toothpastes.

National Survey:
The Laboratory supports Central Drugs Standard Control Organisation and other State Governments in organising National Survey in respect of different drugs selected by the Drugs Control Authorities according to the seasonal requirements.

Indian Pharmacopoeia
The working out of the standards of Indian Pharmacopoeia has been its primary responsibility, the Laboratory has been assisting Indian Pharmacopoeia Committee to work out standards, and to collaborate with different institutions in improving the test procedures besides assisting in the development of the monographs in publication of different editions of the Indian Pharmacopoeia.

Sample Warden
This Laboratory receives samples from States and different Zonal Offices of Central Government, Customs and Excise authorities. The receipt of samples, their coding, decoding and relating documentation and other distribution is carried out by Sample Warden Section.

Reference Standard and Protocols Repository
This sub-section maintains reference standards according to the storage requirements of the drugs. It has its own refrigeration and air-
conditioning. This section is supported by computerised inventories and having detailed record in respect of their receipt in CIPL and their potencies, apart from issue and receipt of reference standards to analysts and periodical checking of data, phasing out standards after expiry and their replacement.

**WHO Project**

This Laboratory has been associated with WHO in working out basic test procedure for raw-materials and the formulations.

**Nodal Centre for regular Condom Testing, Research & Training for other Condom Testing Laboratories:**

This Laboratory has been the appellate authority for the testing of condoms. As the importance of condoms has increased because of the menace of AIDS, the Government of India has notified this Laboratory as "Nodal Centre for Condom Testing, Research and Analysis". The laboratory therefore, proposes to take up research in respect of raw-materials as well as finished product. The Laboratory will also undertake R&D work on package material of Condom with special emphasis to tropical conditions. Besides, as a nodal laboratory this laboratory is extending its facilities for training of the different analysts of the State Government or Central Government Laboratories and different enforcement agencies.

**Library & Information Centre**

The library is divided into two sub-sections. One dealing with the books and other dealing with the Journals. Library has a separate reference section for necessary consultations of individuals. The library is equipped with books encompassing all the disciplines of Pharmaceutical Sciences namely Pharmaceutical Chemistry, Microbiology, Cosmetics, Pharmacology, BIS specifications, Administration and back dated journals etc. CIPL is also subscribing for national and international Journals dealing with the Pharmaceutical analysis. The library is providing online
research facilities, CD Rom, Internet and Medlar to
users according to their requirements.

**Stores**
The Laboratory has a separate Central Store
Building. Chemicals are stored according to the
requirements, in regard to inflammability
and hazards.

**Administrative Wing**
The administration is well equipped with all
types of modern equipments i.e. FAX,
Computer, Electronic Typewriter, Electric
Typewriter, Binding machine & Lamination
machine. To end the communication gap
between different wings of CIPL this
laboratory is equipped with EPABX
system.

**General**
The Laboratory has taken up the project
of computerizing the different activities
of the laboratory with the help of 'Local
Area Networking. The client server along
with the computers in all the divisions
have been installed. The software is
being developed as per our tailor made
requirements so as to take care of "Good
Laboratory Practices".

At present, there are different proposals
for the sake of pharmaceutical profession.
The matter of declaration of CIPL as WHO
collaborative centre is under active
consideration of WHO which is likely to be
given final shape before the job is assigned
to CIPL for implementation. The long
pending requirement of creation of an
autonomous Indian Pharmacopoeia
Commission has reached to ripe. All
necessary arrangements are being made at
war-footings in our Headquarters and Ministry
so that this IP Commission may run form the 1st
April 2003. It is a matter of pride that this IP
Commission shall start its functions with the help
of infrastructure facilities to be provided by CIPL,
Ghaziabad. Further, initially analytical activities can be
carried out in the R&D Division of this Laboratory.
CIPL
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