

# **ANNUAL REPORT**

**2013-14**

**PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE  
PLIM Campus, Kamla Nehru Nagar  
Ghaziabad**

## 1. BACKGROUND

The Government of India set up the Ayurvedic, Siddha & Unani Pharmacopoeia Committees in the year 1962, 1975 & 1964 respectively. These three Committees were supported technically by the Pharmacopoeia Laboratory for Indian Medicine (PLIM) situated at Ghaziabad which is the apex laboratory dedicated to develop Pharmacopoeial standards of Ayurveda Siddha & Unani (ASU) Medicines. These three Pharmacopoeia Committees have published standards on Ayurveda, Siddha and Unani single drugs and Compound Formulations. So far monographs on 600 single drugs and 152 compound formulations of Ayurveda, 139 single drugs of Siddha and 298 single drugs and 100 formulations of Unani have been published. Besides these Formularies of ASU drugs have also been published. Ayurvedic Formulary of India (Part I-III) consists of 1288 formulations, Siddha Formulary of India (Part I-II) consists of 399 Formulations and National Formulary of Unani Medicine (Vol. I-VI) consists of 1231 formulations.

The ASU Pharmacopoeias are official documents and are widely used all over the India. However, to give credence to these pharmacopoeias, it was felt that an independent/autonomous Pharmacopoeia Commission for Indian Medicines on the lines of the Indian Pharmacopoeia Commission (IPC) for Allopathic medicines (established in the year 2004) may be set up. It was expected that a non-Governmental autonomous Commission undertaking the standardization of the ASU drugs would have much better credibility rather than the Standing Committees. Presently, Pharmacopoeia Commissions exist in countries like USA, Europe, Britain, China and Japan. This measure would enable networking with similar Commissions elsewhere on an equal footing which will lead to mutual agreement on standards & facilitate better coordination and exchange of information. Pharmacopoeia Commission would further boost the development of AYUSH sector in the country. The Steering Committees constituted by the Planning Commission for the AYUSH Sector for 11<sup>th</sup> Plan also recommended the constitution of a Pharmacopoeia Commission for Indian Medicine (PCIM). The Commission was initially established as Pharmacopoeia Commission for Indian Medicine (PCIM) in the year 2010 for the purpose of standardization of Ayurvedic, Siddha and Unani (ASU) drugs. However in pursuance to the decision of the Central Government on 20<sup>th</sup> March 2014 included Homoeopathy and the Commission was renamed as Pharmacopoeia Commission for Indian Medicine & Homoeopathy and Sowa Rigpa will be included as Indian System of Medicine at a later stage when its Pharmacopoeial institutions are set up.

Pharmacopoeia Commission for Indian Medicine & Homoeopathy (PCIM&H) was thus renamed as an autonomous organisation under the Department of AYUSH, Ministry of Health & Family Welfare, Govt. of India in 2014. The Commission is registered under Societies Registration Act, 1860 on 25<sup>th</sup> June 2014 and is based at Ghaziabad. The Commission is an umbrella organization for Ayurvedic Pharmacopoeia Committee (APC), Siddha Pharmacopoeia Committee (SPC) and Unani Pharmacopoeia Committee (UPC) and Homoeopathy Pharmacopoeia Committee (HPC).

### 1.1 AIMS AND OBJECTS OF PCIM&H:

1. Publication and revision of the Ayurvedic, Siddha and Unani Pharmacopoeia of India at suitable intervals and of such addenda or supplementary compendia during the intervening periods as may be deemed necessary; releasing the publications for public use from a date when they are to become official.
2. Publication and revision of the Ayurvedic, Siddha and Unani Formulary of India at regular intervals with a view to make it an authentic source of information on rational combination and use of medicines including their methods of preparation, therapeutic indications, adverse reactions, contra-indications, drug-drug interactions and similar issues concerning Indian medicines for safe use in humans and animals. Identification of ASU formulations with a view to develop their quality standards and to ensure quality and safety of ASU medicines.
3. To nurture and promote awareness of quality in ASU drugs formulations and drug research on ASU products and publish regularly or at suitable intervals other related scientific information as authorised under the rules and procedures of the Commission.
4. Exchange information and interact with expert committees of the World Health Organization and other international bodies with a view to harmonise and develop the ASU Pharmacopoeial standards to make those internationally acceptable.
5. Arranging studies either under its own auspices or through collaboration with other institutions to develop standards and quality specifications for identity, purity and strength of raw materials and compound formulations and to develop SOPs for the process of manufacture included or to be included in the Ayurvedic, Siddha and Unani Pharmacopoeia/formulary and its addenda or supplementary compendia or other authorized publications.
6. Maintain National repository of authentic reference raw materials used in the manufacture of Ayurveda, Siddha and Unani medicines for the purpose of reference and supply of reference standards to the stake holders at a price.
7. To assign responsibilities described for PLIM under the Drugs & Cosmetics Act- as soon as the PLIM becomes the constituent of Commission.
8. Generate and maintain repository of chemical reference marker compounds of the plants or other ingredients used in standardizing Ayurveda, Siddha and Unani medicines and supply them as reference standards to the stake holders on price.
9. Furtherance of the provision of Chapter IVA of Drugs and Cosmetic Act, 1940 in case ASU drugs & 4A of Schedule II of Drugs & Cosmetics Act in case of Homoeopathy medicine and rules there under related to ASU drugs and Homoeopathy medicine respectively.
10. Acting as a coordinating centre for analytical laboratories, industry and academia by encouraging exchange of scientific and technical information and staff and by undertaking sponsored funded research as well as consultancy projects.
11. Organising national/international symposia, seminars, meetings and conferences in selected areas from time to time and to provide updated regular training to the regulatory authorities and stake holders.

12. Receiving grants, contributions, sale proceeds of its publications and reference standards, income from any other source, managing the funds and properties of the Commission to meet its objectives.
13. Acquire, purchase or otherwise own or take on lease or hire temporarily or permanently, buy movable or immovable property necessary or convenient for the furtherance of the objectives of the Commission.
14. Draw, accept, endorse, discount, execute, sign, issue and otherwise deal with cheques, drafts, certificates, receipts, Government securities, bill of exchange or other instruments and securities whether negotiable or transferable or not.
15. Build, construct, maintain, repair, alter, improve or develop or furnish buildings or works necessary or convenient for the purposes of the Commission.
16. All incomes, earnings, movable/immovable properties of the Commission shall be solely utilized and applied towards the promotion of its aims and objects as set forth in the Memorandum of Association and no profit thereof shall be paid or transferred directly or indirectly by way of dividends, bonus, profits, or in any manner whatsoever to the present or past members of the Commission or to any person claiming through any one or more of the present or the past members. No member of the Commission shall have any personal claim on any movable or immovable properties of the Commission or be entitled to make any claim whatsoever by virtue of his/her membership.
17. Make Rules and By-laws for the conduct of the affairs of the Commission and to add, amend, alter or rescind them from time to time with the approval of the Central Government.
18. Administer all matters concerning the Commission in accordance with the rules and procedure of business.
19. Do all such things as may be necessary, incidental or conducive to the attainment of all or any of the objects of the Commission; and
20. Delegate any or all of its powers to the Commission or to any of its Body/Committee or Committees.

## 1.2 ANNUAL TARGETS AND ACHIEVEMENTS

**Achievements in respect of Result Framework Document 2013-2014  
(Ayurveda, Siddha & Unani)**

Objective	Actions	Success Indicators	Targets (very good) 90%	Progress upto 31.03.2014(final achievements)
[6] Effective AYUSH drug Administration	[6.5] Pharmacopoeial Standardization and Harmonization of drugs under Indian System of Medicines	[6.5.1] Single drugs of Ayurvedic System	35	35
		[6.5.2] Compound formulations of Ayurvedic System	18	16
		[6.5.3] Compound drugs of Unani System	33	40
		[6.5.4] Single drug of Siddha System	7	7
		[6.5.5] Compound formulations of Siddha System	1	20

## 2. MANAGEMENT:

The Commission consists of:

- (a) General Body
- (b) Standing Finance Committee
- (c) Scientific Body

### 2.1 GENERAL BODY :

The General Body is the Apex body and is responsible for overall governance of the Commission.

**Composition:** The composition of the General Body during the reported period was as follows:-

- |       |   |                    |
|-------|---|--------------------|
| i)    | Secretary, Deptt. Of AYUSH                          | - Chairman         |
| ii)   | Joint Secretary, AYUSH                              | -Vice-Chairman-1   |
| iii)  | Chairman, Scientific Body                           | - Vice-Chairman-2  |
| iv)   | Secretary and DG ICMR                               | - Member           |
| v)    | Chairman, CII or his nominee                        | - Member           |
| vi)   | Chairman, FICCI or his nominee                      | - Member           |
| vii)  | Drugs Controller General (India)                    | - Member           |
| viii) | Central Drug Controller (AYUSH)**                   | - Member           |
| ix)   | Adviser (Ay.), Department of AYUSH                  | - Member           |
| x)    | Adviser (Unani), Department of AYUSH                | - Member           |
| xi)   | Adviser (Homoeopathy), Department of AYUSH          | - Member           |
| xii)  | Eminent ASU&H experts (one from each system)        | - Members          |
| x)    | One representative each of ASU&H Drug Manufacturers | - Members          |
| xi)   | Director PCIM/PCIM&H                                | - Member Secretary |

### 2.2 Standing Finance Committee (SFC):

All matters with respect to financial approvals are dealt by SFC. SFC shall be responsible for screening / appraising/ evaluating the projects/works etc. of the Commission and recommend for the approval of these projects / works by the General Body.

**Composition:** The composition of the Standing Finance Committee during the reported period was as follows:-

- |      |                                    |                    |
|------|------------------------------------|--------------------|
| i)   | Joint Secretary (AYUSH)            | - Chairperson      |
| ii)  | Chairperson, Scientific Body       | - Vice-Chairperson |
| iii) | Financial Advisor, M/o Health & FW | - Member           |
| iv)  | Central Drug Controller (AYUSH)**  | -Member            |

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\*\*Will be included after the approval of proposal under consideration in Deptt. Of Expenditure.

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v) Director PCIM/PCIM&H

- Member

### 2.3 SCIENTIFIC BODY:

The Scientific Body shall be responsible for designing /preparing and according technical approval for all the scientific & technical works/projects and execution of these works/projects through different Pharmacopoeia Committees/other agencies, publication of validated Pharmacopoeia after obtaining the approval of the General Body. The Scientific Body is headed by an eminent Scientist, nominated by the Central Government.

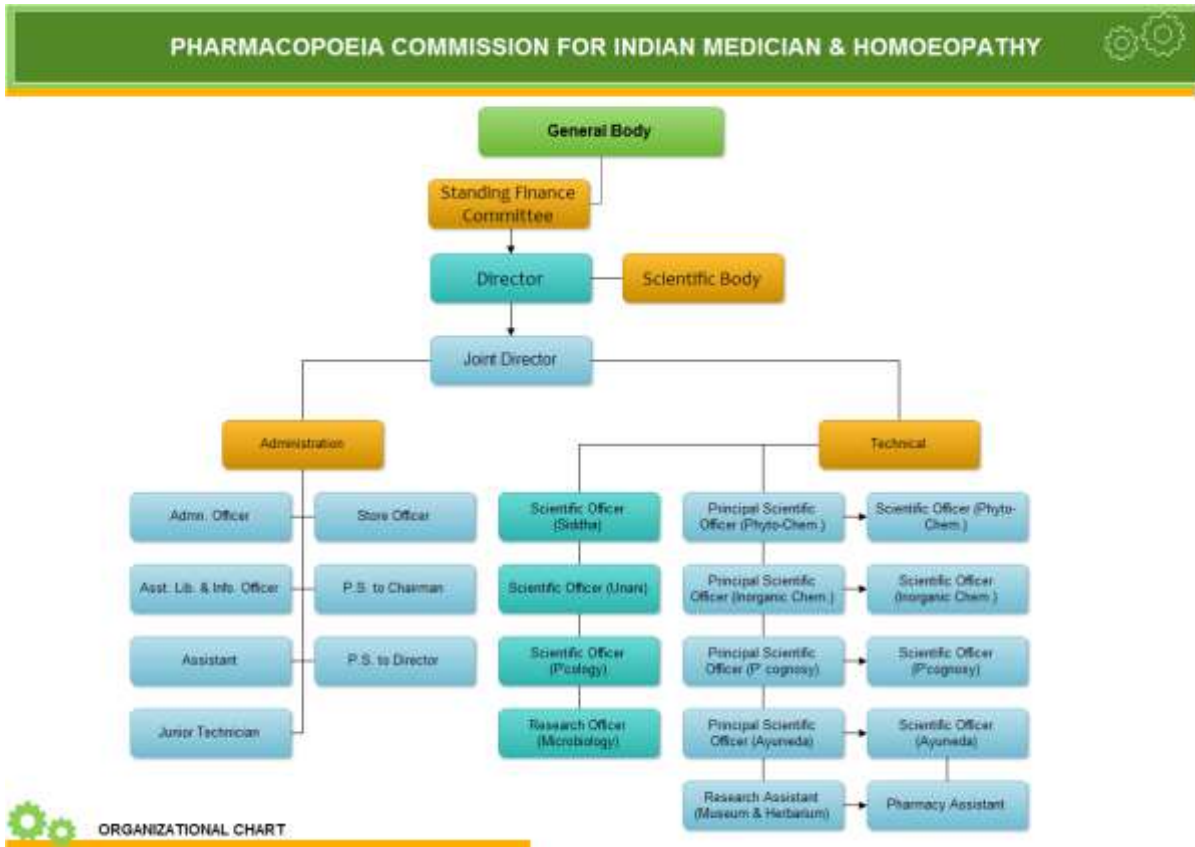
#### Composition:

The Scientific Body of the Pharmacopoeia Commission for Indian Medicines & Homoeopathy shall consist of the following members:-

- |         |   |                   |
|---------|---|-------------------|
| (i)     | Eminent Scientist or an ASU&H Expert with Significant experience in Pharmacopoeial work | - Chairman        |
| (ii)    | Chairman Indian Pharmacopoeia Commission or his nominee                                 | - Member          |
| (iii)   | Chairman, Ayurvedic Pharmacopoeia Committee   | - Member          |
| (iv)    | Chairman, Unani Pharmacopoeia Committee   | - Member          |
| (v)     | Chairman, Siddha Pharmacopoeia Committee  | - Member          |
| (vi)    | Chairman, Homoeopathic Pharmacopoeia Committee  | - Member          |
| (vii)   | Director General, ICMR or his nominee (ASU Drugs Expert)                                | - Member          |
| (viii)  | Director General, CSIR or his nominee (ASU Drugs Expert)                                | - Member          |
| (ix)    | Member Secretary, Ayurvedic Pharmacopoeia Committee/DG, CCRAS                           | - Member          |
| (x)     | Member Secretary, Unani Pharmacopoeia Committee/DG, CCRUM.                              | - Member          |
| (xi)    | Member Secretary, Siddha Pharmacopoeia Committee/DG, CCRS                               | - Member          |
| (xii)   | Member Secretary, Homoeopathic Pharmacopoeia Committee/DG, CCRH                         | - Member          |
| (xiii)  | Central Drug Controller (AYUSH)   | - Member          |
| (xiv)   | Adviser (Ay) Deptt. of AYUSH.   | - Member          |
| (xv)    | Adviser (Unani), Deptt. of AYUSH  | - Member          |
| (xvi)   | Adviser (Homoeopathy), Deptt. of AYUSH  | - Member          |
| (xvii)  | Dy. Adviser (Siddha), Department of AYUSH.  | - Member          |
| (xviii) | Professional expert drawn one each from ASU&H industry                                  | - Members         |
| (xix)   | One expert each from ASU&H Academia and Regulatory Bodies.                              | - Members         |
| (xx)    | Director, Pharmacopoeia Commission for Indian Medicine                                  | -Member Secretary |



2.4 ORGANISATIONAL SETUP:



2.5 Budget :

MINISTRY OF HEALTH AND FAMILY WELFARE  
DEMANDS FOR GRANTS 2013-2014  
DEMAND NO 47  
DEPARTMENT OF AYUSH

(In thousands of Rupees)

Budget Estimate 2013-2014

		Plan	Non-Plan	Total
07	Pharmacopoeia Committee on ASU and Strengthening of Pharmacopoeia Commission of Indian Medicine (PCIM)			
070001	Salaries	14900	6500	21400
070006	Medical Treatment	100	0	100
070011	Domestic Travel Expenses	5000	1080	6080
070013	Office Expenses	3500	0	3500
070031	Grant-in-aid-General	1000	0	1000
070050	Other Charges	500	500	1000
	Total-Pharmacopoeia Committee on ASU and Strengthening of Pharmacopoeia Commission of Indian Medicine (PCIM)	<b>25000</b>	<b>8080</b>	<b>33080</b>

**2.6 FINANCIAL STATEMENT**

**Income Expenditure Account for the Period/Year Ended 31-03-2014**

<b>(A) Income</b>	<b>Schedule</b>	<b>Current Year</b>	<b>Previous Year</b>
Grant/Subsidies	Grants/ Subsidies	-	11,250,000.00
Interest Earned		-	-
Other Income		-	-
<b>Total</b>		<b>-</b>	<b>11,250,000.00</b>
<b>*(B)Expenditure Plan</b>			
Establishment Expenses	Establishment Expenses	11,516.00	314,043.00
Other Administrative Expenses	Other Administrative Expenses	2,570,929.00	1,203,651.00
Expenditure on Grants Subsidies		-	-
Depreciation		-	-
<b>Total</b>		<b>2,582,445.00</b>	<b>1,517,694.00</b>
Balance being excess of Income over Expenditure (A-B) PCIM		(2,582,445.00)	9,732,306.00
Balance being surplus/(deficit) carried to corpus/capita fund		(2,582,445.00)	9,732,306.00

### 3 PHARMACOPOEIA COMMITTEES:

The Scientific and technical work of the Commission shall be executed through various committees of respective system of medicine under the supervision of the Scientific Body.

The Scientific Body of the Commission shall supervise the following four Pharmacopoeia Committees.

- i. Ayurvedic Pharmacopoeia Committee
- ii. Siddha Pharmacopoeia Committee
- iii. Unani Pharmacopoeia Committee
- iv. Homoeopathic Pharmacopoeia Committee

Each Pharmacopoeia Committee shall have 15 to 20 experts from related disciplines of science and technology connected with Pharmacopoeial standards.

#### 3.1 Functions of the Pharmacopoeia Committees:

1. To prepare official Formuleries and Pharmacopoeias, Pharmaceutical Codex of single drugs and compound formulations and other technical documents related to standard for drugs.
2. To provide standards for drugs and medicines of therapeutic usefulness or pharmaceutical necessity sufficiently used in the ASU & Homoeopathy practice.
3. To lay down testing protocols & methodologies for identity, quality and purity of drugs.
4. To ensure as far as possible uniformity, physical properties and active constituents of drugs;
5. To provide all other scientific information regarding the distinguishing characteristics, methods of preparation, dosage forms, mode of administration etc. of drugs.

### 3.2 AYURVEDIC PHARMACOPOEIA COMMITTEE (APC)

#### Achievements during the reporting period:

The targeted list of the 35 single drugs monographs was thoroughly reviewed by the Committee members of the respective groups i.e. Botany, Chemistry and Ayurveda. The expert group of Botany made necessary correction in all the monographs after thorough revision of each of the targeted monographs.

The experts of the Chemistry Group also revised thoroughly the similar 35 monographs and the important input included in the monographs. The experts were of the opinion that the work carried out at ICMR published monographs on Quality Standard of the Indian Medicinal Plants may also be included in each of the monograph.

The expert of the Ayurvedic group who examined single drug monograph found the following places for its correction on each monograph as follows:

The main heading of the monograph be based on Basonym of the drug not on synonym as found in a few cases. They also made necessary correction in the synonyms and regional language names with their diacritical marks.

16 Ayurvedic formulations were thoroughly reviewed and additions, alterations, and deletions were made by the respective group experts i.e. Botany, Chemistry and Ayurveda. The list of monographs is as follows:

<b>Botanical Name and Family &amp; Part official Ayurveda / Unani Name</b>	
1	<i>Abrus precatorius</i> L. (Fabaceae)- Root Guñjā/Ghungchi/
2	<i>Acacia leucophloea</i> (Roxb.) Willd. (Mimosaceae)- Stem bark Arimeda/Kath
3	<i>Acacia nilotica</i> (L.) Willd. ex Del. ssp. <i>indica</i> (Benth.) Brenan (Mimosaceae)- Stem bark Babbula/Samagh-e-Arabi
4	<i>Achyranthes aspera</i> L. (Amaranthaceae)- Root Apāmārga/chirchita
5	<i>Aconitum chasmanthum</i> Stapf ex Holmes (Ranunculaceae)- Root Vatsanābha/Beesh
6	<i>Aconitum heterophyllum</i> Wall. ex Royle (Ranunculaceae)- Root Ativisha/Atees Shireen/Ativitayam
7	<i>Acorus calamus</i> L. (Araceae)- Rhizome Vacā/Waj Turki
8	<i>Adhatoda zeylanica</i> Medik. (Acanthaceae)- Root Vasa/Arusa
9	<i>Aegle marmelos</i> (L.) Corr. (Rutaceae)- unripe fruit Bilva/Belgiri/
10	<i>Alangium salviifolium</i> (L.f.) Wang. ssp. <i>salviifolium</i> (Alangiaceae)- Leaf Ankolah/Ankol
11	<i>Alhagi pseudalhagi</i> (M. Bieb.) Desv. (Fabaceae)- Whole plant Yavāsaka/Jawansa
12	<i>Allium sativum</i> L. (Alliaceae)- Bulb Lasuna/ Seer (Lahsan)/Vellaip punjtu
13	<i>Aloe barbadensis</i> Mill. (Aloeaceae)- Dried juice of Leaf Kanyasara/Sibr
14	<i>Alpinia galanga</i> (L.) Swartz (Zingiberaceae)- Rhizome Kulañjana/Rhizome/Perarattai
15	<i>Althea officinalis</i> L. (Malvaceae)- Root Khatmī/Baikh Khatmi
16	<i>Althea officinalis</i> L. (Malvaceae)- Seed Khatmī/Tukhme Khatmi
17	<i>Amomum subulatum</i> Roxb. (Zingiberaceae)- Seed Sthūlaila/Heel Kalan
18	<i>Amomum subulatum</i> Roxb. (Zingiberaceae)- Fruit Sthūlaila
19	<i>Anacyclus pyrethrum</i> DC. (Asteraceae)- Root Ākārakarabha/Aaqarqarha
20	<i>Anethum sowa</i> Roxb. ex Flem. (Apiaceae)- Fruit Śatāhvā/Tukhm-e-Soya
21	<i>Apium graveolens</i> L. (Apiaceae)- Root Karaphsa
22	<i>Apium leptophyllum</i> (Pers.) Muell. (Apiaceae)- Fruit Ajamoda
23	<i>Aquilaria agallocha</i> Roxb. (Thymelaeaceae)- Heart wood Agaru/Ood Hindi
24	<i>Areca catechu</i> L. (Arecaceae)- Seed Puga/Fufal
25	<i>Aristolochia indica</i> L. (Aristolochiaceae)- Root Ishvari/Zarawand Hindi

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- |   |   |
|---|---|
| 26 <i>Artemisia absinthium</i> L. (Asteraceae)- Whole plant Dvipantara damanaka/Afsanteen     | 36 <i>Azadirachta indica</i> A. Juss. (Meliaceae)- Dried Leaves Nimba/Neem                                |
| 27 <i>Asarum europaeum</i> L. (Aristolochiaceae)- Rhizome Pinḍatagara/Asaroon                 | 37 <i>Berberis aristata</i> DC (Berberidaceae)- Stem Daruharidra/Darhald                                  |
| 28 <i>Asparagus racemosus</i> Willd. (Asparagaceae)- Root Śatavarī/Satawar                    | 38 <i>Butea monosperma</i> (Lam) Kuntze, syn. <i>B. frondosa</i> Roxb. (Fabaceae)-Seed Palasah/Palaspapra |
| 29 <i>Asteracantha longifolia</i> (L.) Nees (Acanthaceae)- Whole plant Kokilākṣā/ Ttalmakhana | 39 <i>Celastrus paniculatus</i> (Celatraceae)- Seed Jyotismati/Malkangni                                  |
| 30 <i>Asteracantha longifolia</i> (L.) Nees (Acanthaceae)- Root Kokilākṣā                     | 40 <i>Cedrus Deodara</i> (Pinaceae)- Heart Wood Devadaru/Deodar   |
| 31 <i>Asteracantha longifolia</i> (L.) Nees (Acanthaceae)- Seed Kokilākṣā                     | 41 <i>Crocus Sativus</i> L. (Iridaceae)- Style and Stigma Kunkuma/Zafran                                  |
| 32 <i>Azadirachta indica</i> A. Juss. (Meliaceae)- Root bark Nimba/Neem                       | 42 <i>Mucuna prurita</i> Hook (Fabaceae)- Seed Atamgupta/Konch  |
| 33 <i>Azadirachta indica</i> A. Juss. (Meliaceae)- Flower & Flower bud Nimba/Neem             | 43 <i>Piper nigrum</i> (Piperaceae)- Fruit Marica/Filfil Siyah  |
| 34 <i>Azadirachta indica</i> A. Juss. (Meliaceae)- Fruit Nimba/Neem                           | 44 <i>Picrorhiza kurroa</i> Royle ex Benth. (Scrophulariaceae)- Rhizome Katuka/Kutki                      |
| 35 <i>Azadirachta indica</i> A. Juss. (Meliaceae)- Stem bark Nimba/Neem Gum                   | 45 <i>Cucumis Sativas</i> L. (Cucurbitaceae)- Seed Trapusam/Khayar  |

### 3.3 UNANI PHARMACOPOEIA COMMITTEE (UPC)

#### Achievements during the reporting period:

The Council after being designated as secretariat for Unani Pharmacopoeia of India by the Department of AYUSH organized meetings of Unani Pharmacopoeia Committee, sub-committees. During the reporting period Council as secretariat for Unani Pharmacopoeia has prepared 4<sup>th</sup> volume of *Unani Pharmacopoeia of India*, Part-II consisting of 50 monographs comprising of Araqiyat, Dawa, Itrifal, Jawarish, Majoon, Safoof and Tiryaaq and Hindi version of National Formulary of Unani Medicine, Part-III. Both will be published after approval of UPC and PCIM.

#### 3.3.1 Development of Standard Operating Procedures (SOPs) for manufacture of Compound Formulations and their Pharmacopoeia Standards.

Under this programme, SOPs for the manufacture of following compound formulations were developed followed by their Pharmacopoeial Standards at various research centres of the Council.

- |  |   |
|--|---|
| 1 AKSIR-E-RIYAH                        | 27 K. GAWZABAN AMBARI JADWAR<br>OOD SALEEB WALA |
| 2 ANOSHDARU                            | 28 KHAMIARA-E-BANAFSHA                          |
| 3 ARQ-E-MAUL LAHAM MAKOH<br>KASNI WALA | 29 KHAMIRA GAWZABAN AMBARI                      |
| 4 DAWA-E-ATFAL                         | 30 KHAMIRA MURAKKAB                             |
| 5 DAWA-E-TIKORE                        | 31 LAOOQ-E-FALIJ                                |
| 6 HABB-E-AYARIJ                        | 32 LAOOQ-E-MOTADIL                              |
| 7 HABB-E-AZRAQI                        | 33 LAOOQ-E-PETHA                                |
| 8 HABB-E-BAWASEER AMYA                 | 34 LAOOQ-E-ZEEQ-UN-NAFAS<br>BALGHAMI            |
| 9 HABB-E-BAWASEER BADI                 | 35 MAJOON-E-GHEEKWAR                            |
| 10 HABB-E-BAWASEER KHOONI              | 36 MAJOON-E-GUL                                 |
| 11 HABB-E-DABBA-E-ATFAL                | 37 MAJOON-E-HAFIZ-UL-AJSAD                      |
| 12 HABB-E-FALIJ                        | 38 MAJOON-E-IBN-E-SARAFIYUN                     |
| 13 HABB-E-HARSINGHAR                   | 39 MAJOON-E-KUNDUR                              |
| 14 HABB-E-HILTEET                      | 40 MAJOON-E-LULUVI                              |
| 15 HABB-E-LOBAN                        | 41 MAJOON-E-MUJARRAB                            |
| 16 HABB-E-LULUVI                       | 42 MAJOON-E-PIYAZ                               |
| 17 HABB-E-MAMOOOL QAWI                 | 43 NAMAK-E- AJEEB                               |
| 18 HABB-E-MASTAGI                      | 44 NAMAK-E- SULEMANI                            |
| 19 HABB-E-MULAIYIN                     | 45 RAUGHAN-E-ZARAREEH                           |
| 20 HABB-E-SURFA                        | 46 ROUGHAN-E-AMLA                               |
| 21 ITRIFAL FAULADI                     | 47 SAFOOF GESU DARAAS                           |
| 22 ITRIFAL MUNDI                       | 48 SAFOOF-E-DEEDAN                              |
| 23 ITRIFAL SANA QAWI                   | 49 TIRYAAQ-E-MEDA                               |
| 24 ITRIFAL USTUKHUDUS                  | 50 TIRYAAQ-E-PECHISH                            |
| 25 ITRIFAL-E-DEEDAN                    |   |
| 26 ITRIFAL-E-KABIR                     |   |

### 3.4 SIDDHA PHARMACOPOEIA COMMITTEE (SPC)

#### Achievements during the reporting period:

1. Transliteration of 233 Siddha compound formulations was done for the preparation of "The Siddha Formulary of India" - Part I (English-Revised Edn.).
2. List of names of Medicinal plants appearing in the Siddha formulations in Tamil was prepared alphabetically in English with diacritic marks for the preparation of "The Siddha Formulary of India" - Part I (English-Revised Edn.).
3. Draft of transliteration of 151 Siddha compound formulations was prepared for "The Siddha Formulary of India", Part -II (English Edn.).
4. List of names of Metals and Minerals appearing in the formulations was prepared alphabetically with diacritic marks for the preparation of 'The Siddha Formulary of India' - Part I (Tamil-Revised Edn.).
5. Ingredients used, Method of preparation, Action, Dose, Therapeutic uses of 20 Siddha Formulations were prepared for "The Siddha Formulary of India" Part III (Tamil).
6. Preparation of 'The Siddha Pharmacopoeia of India' - Part I, Vol. IV (Metals and Minerals) is in progress. Chemical analysis for Metals and Minerals are to be outsourced. Necessary Permission and sanction may be accorded to collaborate with Dr. Dhing, NIA, Jaipur.
7. The following single drug monographs (Botanical and Siddha aspects) were prepared for 'The Siddha Pharmacopoeia of India' -Part I, Vol. V.
  - Kadukkai ilai - *Terminalia chebula* Retz. (Leaf)
  - Ayil pattai - *Holoptelea integrifolia* (Roxb.) Planch (Stem bark)
  - Atutintappalai - *Aristolochia bracteolata* Retz. (Whole plant)
  - Agathi ilai - *Sesbania grandiflora* (L.) Poir (Leaf)
  - Puthina ilai - *Mentha arvensis* L. (leaf)
  - Mukkirattai ilai - *Boerhaavia diffusa* L. (leaf)
  - Ponthagarai - *Senna occidentalis* (L.) (Leaf)
8. Siddha compound formulations Talisathi curanam (Batch I, II, III & IV), Amukkara curanam (Batch I, II, III & IV), Parangippattai curanam (I, II, III & IV), Silasathu parpam (Batch - I) and Seenthil chooranam (Batch - I) were prepared in SCRI Pharmacy and Physico chemical parameters were completed for "The Siddha Pharmacopoeia of India" Part II, Vol. I. For TLC, microbial load, aflatoxin, pesticide residue and heavy metal analysis permission may be granted for outsourcing.
9. Physico chemical parameters for Single drugs of plant origin (list enclosed) were completed to prepare "The Siddha Pharmacopoeia of India", Part I, Vol. V. Funds to be released for collection of plants from various localities, for outsourcing of sectioning of hard samples and TLC study.
10. Ingredients used, method of preparation, identification by microscopy and physico chemical parameters of the following Siddha compound formulations were prepared for the "The Siddha Pharmacopoeia of India", Part II, Vol - I.



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### PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY

- Attathic curanam
  - Elathic curanam
  - Kalarcic curanam
  - Nilavakaic curanam
  - Trikudukuc curanam
  - Talisathi curanam
11. The first meeting of Siddha Pharmacopoeia Committee was held on 26th March 2014. In the meeting, it was suggested to modify the “The Siddha Pharmacopoeia of India, Part I, Vol. III” which has reached the stage of final drafting as per the new format recommended by PCIM. Preparation of the Siddha Pharmacopoeia of India, Part I, Vol. IV has also been initiated during the reporting period.
12. The Siddha Formulary of India, Part II (Tamil) has been published in the reporting period and the Siddha Formulary of India, Part I, 1st revised Edition (Tamil) has been approved by the SPC.

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 PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY  
 LIST OF SINGLE DRUGS FOR  
 THE SIDDHA PHARMACOPOEIA OF INDIA PART - I, VOL.V  
 ANALYTICAL WORK CONDUCTED AT CHENNAI & TRIVANDRUM  
 Physico - chemical parameter of the following Single drugs were completed

SCRI, CHENNAI

Sl. No.	Tamil Name	Botanical Name	Anatomical Part	Place of Collection
1.	Mutchangan ver	<i>Azima tetracantha</i> Lam	Root	Mettur
2.	Peypirkku ilai	<i>Luffa amara</i> Roxb.	Leaf	
3.	Pulankilanku**	<i>Kaempferia galanga</i> L. Tuber		
4.	Malaivembu ilai	<i>Melia dubia</i> Cav.	Leaf	Puduppatti, Salem Dt
5.	Ponthagarai ilai*	<i>Cassia occidentalis</i> L.	Leaf	Perumpallam, Erode
6.	Marutontri ver	<i>Lawsonia inermis</i> L.	Root	
7.	Maratti mokku	<i>Ceiba pentandra</i> (L.) Gaertn.	Unripe fruit	Erode
8.	Nalvelai ver	<i>Cleome gynandra</i> L.	Root	Erode
9.	Mutkavelai ver	<i>Tephrosia spinosa</i> (L.f.) Pers.	Root	Varattupallam, Erode
10.	Mutchangan ver	<i>Azima tetracantha</i>	Lam. Root	Erode
11.	Viluti ilai*	<i>Cadaba fruticosa</i> (L.) Druce	Leaf	Thozankadu, Salem
12.	Imbural camulam	<i>Hedyotis puberula</i> (G. Don) Arn.	Whole plant	Tirunelveli
13.	Piramatandu camulam	<i>Argemone mexicana</i> L.	Whole plant	Mettur
14.	Marukkarai vitai	<i>Catunaregum spinosa</i> (Thunb.) Tiruv.	Seed	Mettur
15.	Pusani vitai	<i>Benincasa hispida</i> (Thunb.) Cogn.	Seed	Mettur
16.	Curavittu*	<i>Lagenaria siceraria</i> (Molina) Standley	Seed	Mettur
17.	Agati ilai*	<i>Sesbania grandiflora</i> (L.) Pers.	Leaf	Tirunelveli
18.	Mookirattai ilai*	<i>Boerhaavia diffusa</i> L.	Leaf	Chennai
19.	Puthina ilai*	<i>Mentha arvensis</i> L	Leaf	Chennai
20.	Ponthagarai ilai*	<i>Senna occidentalis</i> L.	Leaf	Chennai

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 PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY  
 LIST OF SINGLE DRUGS FOR  
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 ANALYTICAL WORK CONDUCTED AT CHENNAI & TRIVANDRUM  
 Physico - chemical parameter of the following Single drugs were completed

**SRRI, TRIVANDRUM**

Sl. No.	Tamil Name	Botanical Name	Anatomical Part	Place of Collection
1.	Siruvila ver	<i>Limonia crenulata</i> Roxb.	Root	Mettur
2.	Athondai ilai	<i>Capparis zeylanica</i> L.	Leaf	Mettur
3.	Nilayavarai ilai	<i>Cassia italica</i> (Mill Lam.ex Ander	Leaves	Mettur
4.	Nilakkadambu camulam	<i>Elytaria acaulis</i> (L.f) - Lindan	Whole plant	Mettur
5.	Paruthi ilai	<i>Gossypium herbaceum</i> L.	Leaf	Mettur
6.	Sirukumizh ver	<i>Gmelina asiatica</i> L.	Root	Mettur
7.	Savuri pazham	<i>Trichosanthes tricuspidata</i> Lour.	Fruit	Mettur
8.	Elumitchi	<i>Citrus aurantifolia</i> (Christm.) Swingle	Fruit	Mettur
9.	Othiyam pattai	<i>Lansea coromandelica</i> (Houtt.) Merr.	Stem bark	Mettur
10.	Ilavampisin	<i>Ceiba pentandra</i> (L.) Gaertn.	Resin	Mettur
11.	Kachikkatti	<i>Acacia catechu</i> (L.f.) Willd.	Resin	Mettur
12.	Peiputal camulam	<i>Trichosanthes cucumerina</i> L.	Whole plant	Peyadu, Salem Dt.,
13.	Kancori ilai	<i>Tragia involucrata</i> L.	Leaf	Peyadu, Salem Dt.,
14.	Nilavembu camulam**	<i>Andrographis paniculata</i> Nees	Whole plant	Poojappura
15.	Erukku ilai*	<i>Calotropis gigantea</i> (L.) Ait.f.	Leaf	Thiruvananthapuram
16.	Kalarci kozhunthu*	<i>Caesalpinia bonduc</i> (L) Roxb.	Tender leaf	Thiruvananthapuram
17.	Erukku ilai*	<i>Calotropis gigantea</i> (L.) Ait.f.	Leaf	Poojappura

**N.B**

**Pharmacognostic studies are carried out only at SCRI, Chennai**

\*Completed the Pharmacognostic studies. Apart from this, the following Single drugs were also studied Pharmacognostically.

1. Yaanai Nerungil - *Pedalium murex* L. (Wh. plant)
2. Kiranthinayagam - *Dipteracanthus patulus* (Jacq.) Nees (Wh. plant)
3. Ilanthai ilai - *Ziziphus jujuba* Mill. (Leaf)
4. Thekku - *Tectona grandis* L.f. Leaf
5. Pudal - *Trichosanthes anguina* L. Leaf
6. Nuna - *Morinda coreia* Buch.- Ham Leaf

\*\*Pharmacognostic studies are in progress.

### 3.5 HOMOEOPATHIC PHARMACOPOEIA COMMITTEE (HPC)

Achievements during the reporting period:

List of the drugs worked out during the year 2013-14

- |    |                           |                            |                            |
|----|---------------------------|----------------------------|----------------------------|
| 1  | Alnus glutinosa           | 24                         | Pinus lambertiana          |
| 2  | Boswellia serrata         | 25                         | Primula veris              |
| 3  | Bryophyllum               | <b>Chemical Monographs</b> |                            |
| 4  | Cahinca                   | 1                          | Chloramphenicolum          |
| 5  | Cephalanthus occidentalis | 2                          | Chromicum acidum           |
| 6  | China boliviana           | 3                          | Chromicum kali sulphuricum |
| 7  | Clematis vitalba          | 4                          | Conninum                   |
| 8  | Cornus alternifolia       | 5                          | Haloperidol                |
| 9  | Culex musca               | 6                          | Histaminum hydrochloricum  |
| 10 | Derris pinnata            | 7                          | Histamonium                |
| 11 | Epigaea repens            | 8                          | Molybednum metallicum      |
| 12 | Eriodictyon californicum  | 9                          | Rhodium metallicum         |
| 13 | Euphorbia lathyris        | 10                         | Vanadium metallicum        |
| 14 | Franciscea uniflora       | 11                         | Cassada                    |
| 15 | Galanthus nivalis         | 12                         | Cupressus lawsoniana       |
| 16 | Helleborus viridis        | 13                         | Datura ferox               |
| 17 | Iris foetidissima         | 14                         | Lobelia erinus             |
| 18 | Iris tenax                | 15                         | Mercurius sulphuricus      |
| 19 | Menispermum canadense     | 16                         | Plectranthus fruticosus    |
| 20 | Mimosa humilis            | 17                         | Plumbum iodatum            |
| 21 | Momordica balsamina       | 18                         | Mentholum                  |
| 22 | Oleum jecoris aselii      | 19                         | Magnesium fluoratum        |
| 23 | Phytolacca berry          | 20                         | Bryophyllum calycinum      |

#### **4 Execution of work**

The Pharmacopoeial work of Ayurveda, Unani and Siddha is being executed through following committees:

Ayurvedic Pharmacopoeia Committee

**A**      Unani Pharmacopoeia Committee

Siddha Pharmacopoeia Committee

**B**      Project Evaluation Committee

**C**      Project Approval Committee

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PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY

**Composition of Ayurveda Pharmacopoeia Committee**

1. **Dr. V.K. Joshi** Chairman  
B-6, New Medical Enclave Naiya, Banaras Hindu University,  
Varanasi-221005

**Official Members:**

2. **Advisor (Ay.)** Member  
Deptt. of AYUSH, AYUSH Bhawan, B- Block, GPO Complex, INA,  
New Delhi- 110023
3. **Director** Member  
Pharmacopoeial Laboratory for Indian Medicine  
Kamla Nehru Nagar,  
Ghaziabad- 201002
4. **Director General** Member Secretary  
Central Council for Research in Ayurvedic Sciences (CCRAS)  
61-65, Institutional Area, Opp. 'D' Block, Janakpuri,  
New Delhi- 110058

**Non-official Members:**

**Two experts in the field of analytical chemistry/ pharmaceutical chemistry or pharmaceutics.**

5. **Prof. V.K. Kapoor** Member  
1473, Pushpak Complex, Sector-49 B,  
Chandigarh- 160047
6. **Dr. Roopak Kumar** Member  
Vice President, Multani Pharmaceuticals Ltd. Analytical Division,  
Khasra No. 37, Village:- Makkanapur, Mehmood Alam, Pargana-  
Bhagwanpur, Tehsil- Roorkee, Distt- Haridwar- 237891

**An expert in the field of pharmacy/pharmaceutical science.**

7. **Prof. Karan Vasisht** Member  
Former Head,  
University Institute of Pharmaceutical Science(UIPS), Chandigarh-  
160014

**Two expert in the field of Pharmacognosy**

8. **Ms. S.Satakopan** Member  
7/4 Padmam Flats, 7<sup>th</sup> street Nanaganallur,  
Chennai- 600061
9. **Dr. Malati Chauhan** Member  
IPGTRA, GAU, Jamnagar,  
Gujarat-

**Two experts in the field of Dravyaguna.**

10. **Dr. JLN Sastry** Member  
Head, Dabur Research & Development Center (DRDC), Dabur India  
Limited 22, Site IV, Sahibabad (UP)
11. **Dr. K.N. Diwedi** Member  
Head, Deptt. of Dravyaguna, I.M.S., Banaras Hindu University,

**Two experts from the field of Rasashastra and Bhaishajya Kalpana.**

- |   |        |
|---|--------|
| 12. <b>Dr. S.K. Dixit</b><br>B-3/402,Shivala,<br>Varanasi-221005  | Member |
| 13. <b>Dr. S.S. Savrikar</b><br>Prof. & HOD Rasashstra& Bhaisajya Kalpana<br>Govt. Ayurvedic College & Hospital (GAC),<br>Solarpur Road, Madhuban, Osmanabad, Maharashtra- 413501 | Member |

**Two experts from the Ayurvedic industry experienced in the manufacture.**

- |   |        |
|---|--------|
| 14. <b>Dr. C.K. Katiyar</b><br>CEO, Technical Emami HCD,<br>Emami Towers, 5 <sup>th</sup> Floor, 687, Anandapur, E.M. Bypass Kolkata – 700107 | Member |
| 15. <b>Dr. P.M. Variar</b><br>Aryavaidyasala, Malappuram,<br>Kerala-676503  | Member |

**One expert from the field of Biotechnology/ Pharmacology.**

- |  |        |
|--|--------|
| 16. <b>Dr. Aditya Kaushik</b><br>Head – Medical Regulatory Affairs<br>Glaxo SmithKline Consumer Healthcare Ltd. Plot No. 67, Sector 32,<br>Gurgaon 122001, Haryana | Member |
|--|--------|

**Two experts of Bhasma/ Metals & Minerals.**

- |   |        |
|---|--------|
| 17. <b>Dr. Shailesh Nadkarni</b><br>Dhootapapeshwar,<br>135, Nanubai, Desai Road, Khetwadi, Mumbai- 400004                                      | Member |
| 18. <b>Sh. J.K. Dhing</b><br>Ex-Manager, Hindustan Copper Ltd. Udaipur. SF-8, Gayatri Nagar, Sec.-<br>5, Hiran Magri, Udaipur, Rajasthan-313002 | Member |

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PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY  
**Composition of Unani Pharmacopoeia Committee**

1. **Dr. G.N. Qazi,** Chairman  
Vice Chancellor, Jamia Hamdard University,  
Mehrauli Road,  
New Delhi- 110062

**Official Members:**

2. **Advisor (Unani)** Member  
Deptt. of AYUSH, AYUSH Bhawan, B- Block, GPO Complex,  
INA, New Delhi- 110023
3. **Director** Member  
Pharmacopoeial Laboratory for Indian Medicine  
Kamla Nehru Nagar,  
Ghaziabad- 201002
4. **Director General** Member  
Central Council for Research in Unani Medicine (CCRUM)  
61-65, Institutional Area, Opp. 'D' Block, Janakpuri,  
New Delhi- 110058  
Secretary

**Non-official Members:**

**Two experts in the field of analytical chemistry.**

5. **Dr. Rahul Singh** Member  
Head, CQA Healthcare Products,  
Emami Group of Companies,  
Emami Towers, 5<sup>th</sup> Floor, 687, Anandapur, E.M. Bypass,  
Kolkata – 700107
6. **Dr. Arshad Khuroo,** Member  
Plot GP-5, Sector-18,  
Udyog Vihar Industrial Area, Gurgaon-122001

**An expert in the field of Pharmacy/Pharmaceutical Chemistry.**

7. **Prof. Maninder Kaur** Member  
UIPS, Punjab University,  
Chandigarh

**Two expert in the field of Pharmacognosy.**

8. **Dr. Deepak M (Ph.D. Pharmacognosy)** Member  
Sr. Manager, Natural Remedies,  
Plot No. 5B, Veersanda Indl. Area, 19th K.M.  
Stone, Hosur Road,  
Bangalore- 560100

**Two experts in the field of Ilmuladvia.**

9. **Prof. Kunwar Mohammad Yusuf Amin** Member  
MBBS, MD (Pharmacology),  
Deptt. of Ilmul Advia,  
AMU, Aligarh
10. **Dr. Santosh Joshi** Member  
Head R&D, Hamdard Laboratories. B-1/2/3, Industrial Area, Meerut  
Road, Ghaziabad- 201010



**Two experts in the field of Dawasaji, Unani as applicable to pharmaceutical and health.**

11. **Prof. Tajuddin** Member  
Former Dean  
Deptt. of Saidla, Faculty of Unani Medicine,  
AKTC, AMU,  
Aligarh-
12. **Prof. M. Idris** Member  
Head, PG Deptt. of Ilmus Saidla,  
A&U Tibbia College,  
Ajmal Khan Road,  
Karol Bagh,  
New Delhi. 110005

**An expert from the Unani industry.**

13. **Dr. Asad Mueed** Member  
Director, Hamdard (Wakf) Laboratories,  
Hamdard Building,  
2A/3 Asaf Ali Road,  
New Delhi- 110002

**An expert from the field of Biotechnology/ Pharmacology.**

14. **Dr. M.U. R Naidu** Member  
Formerly Professor & Head, Deptt. of Clinical Pharmacology &  
Therapeutics,  
Plot No. 176/B 2, House No. 1-241,  
SanthNagar Co.H. Society, Motinagar,  
Hyderabad- 500018

**Two experts of Kushtajat /Mineral & Metals**

15. **Prof. Zillur Rehman** Member  
Former Dean Faculty of Unani Medicine, AMU,  
Aligarh.
16. **Dr. Absar Ahmad** Member  
Principal Scientist, Biochemical Division, National Chemical  
Laboratory, Dr. Homi Bhabha Road,  
Pune-411008.

**Composition of Siddha Pharmacopoeia Committee**

17. **Dr. G. Veluchami** Chairman  
24, Chokkanathar Street, Karthikeyan Nagar, Maduravoyal,  
Chennai-600095

**Official Members:**

18. **Deputy Advisor (Siddha)** Member  
Deptt. of AYUSH, AYUSH Bhawan, B- Block, GPO Complex, INA,  
New Delhi- 110023
19. **Director** Member  
Pharmacopoeial Laboratory for Indian Medicine  
Kamla Nehru Nagar,  
Ghaziabad- 201002
20. **Director General** Member Secretary  
Central Council for Research in Siddha (CCRS)  
SCRI, Anna Hospital Campus, Arumbakkam,  
Chennai-600106

**Non-official Members:****Two experts in the field of Organic Chemistry/ Plant chemistry**

21. **Dr. Sharada Vasanth** Member  
Rtd. Research Officer (Chem.),  
SCRI, Anna Hospital Campus, Arumbakkam,  
Chennai-600106
22. **Dr. K. Balakrishna** Member  
Rtd. Research Officer (Chem.),  
SCRI, Anna Hospital Campus, Arumbakkam,  
Chennai-600106

**An expert in the field of Pharmaceutical Chemistry.**

23. **Prof. V. Gopal** Member  
Principal  
Govt. College of Pharmacy, Mother Teresa, PG Research Institute of  
Health Sciences, Puducherry-605006

**Two expert in the field of Pharmacognosy**

24. **Dr. Sasikala Ethiraju** Member  
Research Officer (Pharmacognosy),  
Siddha Central Research Institute, Anna Hospital Campus,  
Arumbakkam, Chennai-600106
25. **Dr. P. Jayaraman** Member  
(Ret., Prof. Of Botany),  
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**Two experts in the field of Gunapadam**

26. **Dr. (Prof.) I. Sornamariammal** Member  
Joint Director of Indian Medicine,  
Chennai

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PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY

27. **Dr. P. Kumar** Member  
Drug License Issuing Authority for ISM,  
Anna Hospital Campus,  
Arumbakkam,  
Chennai

**Two experts from the field of Rasashastra, Siddha Pharmacy**

28. **Prof. Jayprakash Narayanan** Member  
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29. **Dr. Kumararvel** Member  
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**An expert in the field of Siddha industry**

30. **Dr. V. Kalidass** Member  
Propretor, Raja Siddha,  
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**An expert from the field of Pharmacology**

31. **Dr. K. Vasanthira** Member  
Prof. Of Pharmacology,  
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**Two expert from the field of Bhasma/Metals/Minerals**

32. **Dr. G. Thiyagarajan** Member  
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Aminjekarai, Chennai
33. **Dr. T. Anandan**  
75, O- block, Ganapathy Colony,  
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Chennai-

**Composition of Homoeopathic Pharmacopoeia Committee**

1. **Dr. C. Nayak,** Chairman  
Ex-Director General, CCRH, New Delhi.  
House No. 55-B, Block No. C- 4-D  
Janakpuri. New Delhi -110058

**Official Members:**

2. **Advisor (Homoeopathy)** Member  
Deptt. of AYUSH, AYUSH Bhawan, B- Block, GPO Complex,  
INA, New Delhi- 110023
3. **Director** Member  
Pharmacopoeial Laboratory for Indian Medicine  
Kamla Nehru Nagar,  
Ghaziabad- 201002
4. **Director General** Member  
Central Council for Research in Homoeopathy (CCRH) Secretary  
61-65, Institutional Area, Opp. 'D' Block, Janakpuri,  
New Delhi- 110058

**Non-official Members:**

**One expert each in the field of analytical chemistry, pharmaceutical chemistry.**

5. **Dr. B. N. Suhagia,** Member  
Dean Faculty of Pharmacy, Dharamsinh Desai University, Nadiad.  
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**An expert in the field of Homoeopathic pharmacy/pharmaceutical science.**

- Dr. Dilip Pannakadda,** Member  
HOD Department of Pharmacy,  
Block - GE, Sector - III, Salt Lake,  
Kolkata- 700 106. West Bengal,

**An expert in the field of Pharmacognosy**

6. **Dr. (Mrs.) Shanta Mehrotra,** Member  
Ex-Emeritus Scientist, NBRI,  
HIG-91, Aliganj Extension, Sector -E,  
Lucknow – 226 024.

**Two experts from the Homoeopathy industry**

- Dr. P. V. Santhosh** Member  
Managing Director,  
Kerala State Co-operative Homoeopathic Pharmacy, XII/37 to 39,  
Mararikulam South, Pathirappally P.O., Alappuzha - 688 521
7. **Mohd. Faiyaz Alam,** Member  
Technical Manager ,SBL. Pvt. Ltd. A/3, Site -4, Indl. Area  
Sahibabad, U.P.

**One expert from the field of Homoeopathy.**

- Dr. Sohan Singh,** Member  
Ex-Vice Principal, JSPS Homoeopathic Medical College,  
Hyderabad.  
House No 8-3-248/B/23/1, Opposite To Times Of India, Road No 3,  
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