GOVERNMENT OF INDIA
MINISTRY OF AYURVEDA, YOGA & NATUROPOATHY,
UNANI, SIDDHA AND HOMOEOPATHY
AYUSH

RAJYA SABHA
UNSTARRED QUESTION NO. 2889
TO BE ANSWERED ON 29th March, 2022

LABORATORIES FOR ADVANCED RESEARCH ON AYUSH DRUGS

2889. SHRI NEERAJ DANGI:

Will the Minister of **AYUSH** be pleased to state:

a) Whether Government has set up laboratories equipped with latest technologies for advanced research on Ayush drugs in the country, if so, the details thereof;

b) the details of the corrective measures being taken by Government to popularize the Ayush system of medicine;

c) the details of the amount spent by Government on these laboratories?

ANSWER
THE MINISTER OF AYURVEDA, YOGA & NATUROPOATHY,
UNANI, SIDDHA AND HOMOEOPATHY
(SHRI SARBANANDA SONOWAL)

(a): The Government of India has set up laboratories equipped with latest technologies for advanced research on Ayush drugs in the country. The details of the same may be seen at Annexure. I.

(b): The details of the corrective measures being taken by Government to popularize the Ayush system of medicine may be seen at Annexure-II.

(c): The details of amount spent by Government on these laboratories may be seen at Annexure-III.

Annexure-I

Details of laboratories equipped with latest technologies for advanced research on Ayush drugs in the country

I. Pharmacopoeia Commission of Indian Medicine & Homoeopathy (PCIM&H), Ghaziabad, a subordinate office of M/o Ayushhas been set up for laying down ASU&H drugs laying down by laying down Pharmacopoeial Standards and Formulary specifications for ASU&H drugs.

II. AYURVEDA

a. Central Council for Research in Ayurvedic Sciences (CCRAS),an autonomous organization under the aegis of M/o Ayush have five research laboratories across the country to carry out the **in house research activities** as per requirement, namely:-

i) Regional Ayurveda Research Institute, Pune (**RARI, Pune**)
ii) Captain Srinivasa Murthy Central Ayurveda Research Institute, Chennai (**CSMCARI, Chennai**) (NABL accredited facility)
iii) Regional Ayurveda Research Institute , Gwalior (**RARI, Gwalior)**
iv) Central Ayurveda Research Institute, Kolkata (**CARI, Kolkata**)
v) Central Ayurveda Research Institute, Jhansi **(CARI, Jhansi**)

b. Institute of Teaching and Research in Ayurveda (ITRA), Jamnagaran autonomous organization under the aegis of M/o Ayush have modern laboratories such as Pathology, Biochemistry, Microbiology, Pharmacology, Pharmaceutical Chemistry, Pharmacognosy laboratories are integral part of the Institute to carryout different Preclinical and Clinical research work.

c. National Institute of Ayurveda (NIA), Jaipuran autonomous organization under the aegis of M/o Ayushhas a laboratory under Drug Discovery and Development Unit (DDDU).

d. All India Institute of Ayurveda, New Delhian autonomous organization under the aegis of M/o Ayush, the Institute has established state of art laboratory facilities in the hospitals. Well-equipped pathology, micro-biology, blood-bank are established in the institute. Facilities of Quality Control Laboratory with HPTLC, AAS and Pharmacognosy laboratory are functioning in the institute.

III. UNANI

a. Central Council for Research in Unani Medicine (CCRUM) an autonomous organization under the aegis of M/o Ayush is continuously strengthening and promoting the researches on Unani medicine through its research institutes. The Councils research centres have been well equipped with state-of-Art facilities, like GC-MS-MS, HPTLC, HPLC, AAS, ICP-OES, Research Microscopes etc.

b. National Institute of Unani Medicine, Bangalore has four research laboratories and one diagnostics laboratory at NIUM Bangalore.

IV. DRUG POLICY SECTION

Under the Drugs & Cosmetics Rules 160-A to J, 61 Private Drug Testing Laboratories are approved for testing of Ayurveda, Siddha and Unani Drugs.

V. SIDDHA

a. Central Council for Research in Siddha, a scientific and Industrial Research Organisation (SIRO) is equipped with state of the art infrastructure with sophisticated instruments and facilities in the following Departments: Clinical Research, Bio-chemistry, Pathology, Radiology, Chemistry, Pharmacognosy etc., to carry out R & D.

b. Various sophisticated equipments have been procured to augument the research and development facilities such as Liquid Chromatography coupled with Mass Spectrometry (LC-MS), Inductively coupled plasma coupled with optical emission spectrometry (ICP-OES), High Performance Liquid Chromatography (HPLC), High Performance Thin Layer Chromatography (HPTLC), Fully Automated Analyser, Real Time Polymerase Chain Reactions (RT-PCR), Random Access Bio-chemical Analyzer, Ultrasound Color Flow Doppler (CFD), Haematology Analyzer, Powder X-Ray Diffractometer (PXRD), etc.

c. The research programme of Central Council for Research in Siddha (CCRS) mainly focuses on clinical research including safety and efficacy studies of Siddha drugs, validation of the fundamental principles, drug standardization and quality control, survey and cultivation of medicinal plants and literary research.

Annexure-II

Details of the corrective measures being taken by Government to popularize the Ayush system of medicine.

I. Pharmacopoeia Commission of Indian Medicine & Homoeopathy (PCIM&H),

Pharmacopoeial Standards and Formulary specifications for ASU&H drugs laid down by PCIM&H serve as official compendia for ascertaining the identity, purity and strength of the ASU&H drugs included therein as per Drugs and Cosmetics Act, 1940 and Rules thereunder.

PCIM&H also serves as Central drug testing cum appellate laboratory for testing of ASU&H drugs; for ensuring compliance to the prescribed quality standards.

II. AYURVEDA

a. Central Council for Research in Ayurvedic Sciences (CCRAS) through its IEC program has been engaged in:-

i) Popularizing the Ayurveda system among the masses through electronic and print media by publishing brochures for common people in English, Hindi and Regional languages on prevention of diseases and health promotion through Ayurveda.

ii) These are widely distributed through National/State level Arogyamelas, Health camps, exhibitions,seminars, webinars, public lectures etc. and also through CCRAS outreach programs viz. Schedule Caste Sub Plan (SCSP) Research Program, Tribal Health Care Research Program (THCRP), North-East Plan etc. in different states of the country. Further, these brochures are also put on the Council's website for wider publicity.

iii) The Council also gives advisories for the prevention and management of diseases such as Chikungunya, Dengue, flu like illnesses etc. through advertisements in newspapers and also put on the Council website for the wider utility of the masses.

iv) The Council is maintaining a website entitled Ayush Research Portal in which all published research information related to all AYUSH systems are uploaded systematically for wider utility and visibility of research. So far, 34,324 research papers/abstracts have been uploaded on the portal. The Council website is also embodied with information on Ayurveda in general and hyperlinked with other important websites which provide information for wider utility.

v) The Council has launched two electronic journals named JDRAS and JRAS and put in public domain for free of cost to enable dissemination of the outcomes of research among public.

vi) The council so far has published about 300 numbers of books, monographs, technical reports and they are being sold or distributed for dissemination of research outcomes and merits of Ayurveda at large.

vii) The council has also developed four digital platforms viz. AYUSH Manuscripts Advanced Repository (AMAR), Showcase of Ayurvedic Historical Imprints (SAHI), E-Medical Heritage Accession (E-Medha) and Research Management information System (RMIS).

viii) Under the ambit ÄzadikaAmrutMahotsav- India @75" Ministry of Ayush has initiated nationwide activities for the welfare of citizens of the country. Nationwide distribution of Ayush Prophylactic **medicines namely SanshamniVati and AshwagandhaVati** and Guidelines on diet and lifestyle with special focus on geriatric population has started from 30th August 2021 and will continue till 15th August 2022.

ix) Distribution of AyushRaksha Kit and Guidelines for prophylaxis of COVID-19for 15 thousand population by the institutes under CCRAS, starting from 1st February 2022 to 31st March 2022.

All these activities are carried out through its 30 regional institutes.

b. ITRA Jamnagar

In COVID 19 pandemic, ITRA Jamnagar has taken following initiatives to popularize Ayurveda system of medicine.

i) ITRA, Jamnagar has launched the services of DhanvantariRath in collaboration with Jamnagar Municipal Corporation to provide healthcare services through Ayurveda at doorstep in COVID pandemic condition.

ii) To address COVID patients at their home and highlighted different immunity boosting measures for self-care recommended by Ministry of AYUSH to them.

iii) Distribution of Ayurvedic medicines to COVID patients and Corona warriers.

iv) To distribute advisory on COVID 19 published by Gujarat Ayurved University in English and Gujarati to common public.

c. North Eastern Institute of Ayurveda and Homoepathy (NEIAH), Shillong has taken significant steps to popularize the Ayush system in the field of Ayurveda and Homoeopathy in the region by providing health care services to the common people, organizing national level seminars, workshops with different North Eastern State and awareness camps from time to time. The Institute is also encouraging for popularizing Ayush systems of Ayurveda, Homoeopathy, Yoga through TV and radio talk show.

III. HOMOEOPATHY

a. National Institute of Homoeopathy

i) National Institute of Homoeopathy situated in Block GE, Sector 3, Salt Lake is running 13 OPD with 100 bedded hospital.

ii) Further to cater the rural patients, NIH is functioning 10 peripheral OPDs in and around West Bengal.

iii) National Institute of Homoeopathy, Narela situated at New Delhi which is an extension of NIH, Kolkata has one OPD for catering the patients in and around Narela.

iv) As per directions of Ministry of Ayush under "AzadiKaAmritMahotasv" "Distribution of AYUSH Prophylactic Medicines and Guidelines on Diet and Lifestyle with special focus on geriatric population" campaign has been implemented. Under this campaign NIH is distributing Arsenicum album 30C and Guidelines on Diet and Lifestyle for combating COVID-19 pandemic to the general public, office staff, frontline workers and to their families free of cost.

v) NIH is giving service to general public through COVID-19 helpline implemented by Ministry of Ayush.

vi) NIH has also given Tele medicine consultation for Homoeopathy during COVID-19 pandemic.

vii) NIH in tie up with ESI hospital, Chennai had treated COVID-19 patients admitted in COVID ward with homoeopathic medicines as an adjuvant therapy.

viii) Participates in ArogyaMela, GangasagarMela, School health check up, etc to make aware the public about the Homoeopathic system of medicine.

ix) Distribution of IEC materials on Homoeopathy, Publishing Bulletin and peer reviewed journal, etc.

Besides the above, the AHMIS is also under implementation which will ensure better connectivity with people both rural and urban.

IV. NATIONAL AYUSH MISSION (NAM)

Government of India is implementing Centrally Sponsored Scheme of National AYUSH Mission (NAM) in the country for promotion and development of AYUSH system through States/UTs. The National AYUSH Mission inter-alia makes provision for the following to popularize the AYUSH system of medicine.

(i) AYUSH Health & Wellness Centres under Ayushman Bharat

(ii) Co-location of AYUSH facilities at Primary Health Centres (PHCs), Community Health Centres (CHCs) and District Hospitals (DHs)

(iii) Upgradation of existing standalone Government AYUSH Hospitals

(iv) Upgradation of existing/setting up of new standalone Government/ Panchayat/Government aided AYUSH Dispensaries

(v) Setting up of up to 50 /30 /10 bedded integrated AYUSH Hospitals

(vi) Supply of essential drugs to Government AYUSH Hospitals, Government Dispensaries and Government/Government aided Teaching Institutional AYUSH Hospitals

(vii) AYUSH Public Health Programmes

(viii) Infrastructural development of State Government Under-Graduate and Post-Graduate Educational Institutions.

(ix) Establishment of new AYUSH Colleges in the States where availability of AYUSH teaching institutions is inadequate in Government Sector.

(x) Behaviour Change Communication (BCC)/Information Education and Communication (IEC)

(xi) AYUSH Gram

V. UNANI

a. Central Council for Research in Unani Medicine.

The Council has taken various initiatives for popularizing the Unani system of Medicine in the country by different methods e.g. providing treatment through General OPD, RCH OPD, Geriatric OPD, NCD Clinic etc. conducted by 18 Clinical Institutes / Units of the Council. The Council is also popularizing Unani system of medicine through Arogyas, Health Melas, Health Camps, and Exhibitions etc. Besides the school health programme and clinical mobile research programme, SCSP/TSP mobile health program is being carried out by the Council for the promotion of UnaniMedicine. Under this programme, villages having SC/ST population have been selected to create awareness for preventive aspects of different diseases and to provide *treatment* to the patients through different centres of the Council.

b. National Institute of Unani Medicine.

i) AYUSH Ministry funds and mandates for various webinar, seminars, conferences etc., Moreover countrywide programmes under AzadiKaAmrutMahotsav has been launched. National Institute of Unani Medicine is part of all such programmes

VI. **SIDDHA**

a. Central Council for Research in Siddha (CCRS) is conducting research in Siddha system of medicine and provides health care facilities for diseases like Psoriasis, Eczema, respiratory disorders, musculo-skeletal disorders, male and female reproductive diseases, non-communicable diseases, pediatric diseases, vector-borne diseases through internal therapies and external therapies like varmam, fomentation, thokkanam etc. Siddha system of medicine offers valuable treatment for various diseases with higher therapeutic benefits through non invasive methods and holistic approach. Siddha medicines are exhibiting long term beneficiary effects and also cost effective.

b. Specialized treatments are being provided to the public through Non communicable Disease OPD, Geriatric OPD, Reproductive and Child health care OPD, Varmam, Thokkanam and Bone setting and Yogam OPD.

c. Central Council for Research in Siddha has granted 62 IMR projects and out of this 8 IMR projects have been completed, 17 projects awaiting PEMC clearance and 37 IMR projects are ongoing

d. 10 Patents have been filed by CCRS which have been published in the patent journal.

e. 54 books and 536 scientific research articles have been published by CCRS.

f. SwasthyaRakshanprogramme (SRP) been executed through 7 CCRS Institutes / Units in 3 states and 2 union territories. Thirteen villages are covered.

g. THERAN software was developed and upscaled to AYUSH-Hospital Management Information System (AHMIS)

h. Ministry of AYUSH, Govt. of India, with active cooperation with Accelerating Growth of New India Innovation (AGNIi) had taken initiatives for the commercialization of R&D technologies and products developed by Research Council

i. CCRS has been actively conducting various seminar / workshops / *conference* to disseminate the Siddha system of medicine for the beneficial of the public.

j. Health awareness campaigns related to various diseases are being conducted at all institutes / units for the beneficiary of the public. CCRS has initiated many programmes for popularizing the Siddha system among the public through print media in national newspapers, audio jingles and video documentary films

k. In ArogyaMelas / exhibition, IEC materials are being distributed related to various disease conditions and its management through Siddha system of medicine. 11 pamphlets exclusively for IEC have been published and is being circulated in Tamil, English, Hindi, Malayalam, Telugu and Kannada languages to popularize the Siddha system across the country.

VII) INTERNATIONAL COOPERATION(IC)

a. The Ministry has developed a Central Sector Scheme for Promotion of International Co-operation in AYUSH (IC Scheme) under which Ministry of Ayush provides support to Indian Ayush Manufacturers/ Ayush Service providers to give boost to export of AYUSH products & services; facilitate International promotion, development and recognition of AYUSH system of medicine; foster interaction of stakeholders and market development of AYUSH at international level; promote academics and research through establishment of AYUSH Academic Chairs in foreign countries and holding training workshop/symposiums for promoting and strengthening awareness and interest about AYUSH Systems of Medicine at international level.

b. Ministry of Ayush has taken following steps towards promoting export of Ayurvedic medicines:

i) Ministry has signed 25 Country to Country MoUs for Cooperation in field of Traditional Medicine and Homoeopathy with foreign nations.

ii) 32 MoUs have been signed with international institutes for undertaking Collaborative Research / Academic collaboration.

iii) 14 MoUs have been signed with international institutes for setting up of Ayush Academic Chairs in foreign nations.

iv) Ministry of Ayush has provided support for establishment of 38 Ayush Information Cells in 34 foreign nations.

v) The "Ayush Export Promotion Council" has been registered under section 8(4) of the Companies Act 2013 on 04.01.2022 under the Ministry of Ayush in support of the Ministry of Corporate Affairs to tackle the obstacles for registration of AYUSH products abroad, undertaking of market studies and research activities abroad.

vi) Ministry of Ayush under its International Fellowship/Scholarship Programme offers scholarships to foreign nationals for undertaking AYUSH courses in premier institutions in India.

vii) MoUs have been signed with London School of Hygiene & Tropical Medicine (LSH&TM), UK and Frankfurter InnovationszentrumBiotechnologie GmbH (FIZ), Frankfurt Germany for clinical research studies on mitigation of Covid-19 through Ayurveda.

viii) Ministry of Ayush issued advisories on protecting people from COVID and staying healthy in English as well as in 08 other foreign languages.

ix) Ministry of Ayush provides AYUSH Educational Training to regulators of foreign nations.

ANNEXURE-III

Details of amount spent by Government on laboratories

Sl. No.	Name of the institute / Research Institute	Funds 2021-22 (Rs. in lakh)
I	**AYURVEDA**	
1.	Central Council for Research in Ayurvedic Sciences (CCRAS),	
a.	Regional Ayurveda Research Institute, Pune (**RARI, Pune**)	Rs.400.33
b.	Captain Srinivasa Murthy Central Ayurveda Research Institute, Chennai (**CSMCARI, Chennai**) (NABL accredited facility)	Rs.411.67
c.	Regional Ayurveda Research Institute, Gwalior (**RARI, Gwalior)**	Rs.603.26
d.	Central Ayurveda Research Institute, Kolkata (**CARI, Kolkata**)	Rs.1011.06
e.	Central Ayurveda Research Institute, Jhansi **(CARI, Jhansi**)	Rs.444.70
2.	National Institute of Ayurveda(NIA), Jaipur	
a.	Establishment of Laboratory	Rs.5 Crores
b.	For other activities	Rs.2 Crores
II	**UNANI**	
1.	Central Council for Research in Unani Medicine (CCRUM)	Rs.164.05 Crores
2.	National Institute of Unani Medicine	
a.	Laboratory Equipment/Instruments	2020-21 (upto 23.03.2022)- Rs.31,53,150/-
b.	Chemicals	2020-21 (upto 23.03.2022)- Rs.16,21,006/-
III	**DRUG POLICY SECTION**	
a.	**Financial support to 29 state Drug Testing Centers**	2019-20- Rs.1420.11 Lakhs
b.	**`Financial Support to 2 UTs**	2019-20- Rs.152.80 Lakhs
IV	**SIDDHA**	
a.	**Purchase of equipment's for laboratories for various departments of CCRS**	Rs.3.58 Crores