

**GOVERNMENT OF INDIA
MINISTRY OF AYURVEDA, YOGA & NATUROPATHY,
UNANI, SIDDHA AND HOMOEOPATHY
(AYUSH)**

**LOK SABHA
UNSTARRED QUESTION NO.1931
TO BE ANSWERED ON 12TH February, 2021**

RESEARCH ON MEDICINAL PLANTS IN UNIVERSITIES/INSTITUTES

**1931. SHRI SHANKAR LALWANI:
DR. BHARATIBEN DHIRUBHAI SHIYAL:**

Will the Minister of **AYURVEDA, YOGA AND NATUROPATHY ,UNANI, SIDDHA ANDHOMOEOPATHY (AYUSH)** be pleased to state:

- (a) the number of universities/institutions which are carrying out research on medicinal plants in the country, State/UT-wise including Gujarat;
- (b) whether research in such institutions are beneficial in conceptualizing new formulations of Ayurvedic medicines;
- (c) if so, the details thereof; and
- (d) the steps being taken/likely to be taken by the Government to make the country a Global leader in Ayurveda?

**ANSWER
THE MINISTER OF STATE (IC) OF THE MINISTRY OF YOUTH AFFAIRS AND
SPORTS AND ADDITIONAL CHARGE OF MINISTER OF STATE (IC) OF THE
MINISTRY OF AYURVEDA,
YOGA & NATUROPATHY, UNANI, SIDDHA AND HOMOEOPATHY
(SHRI KIREN RIJJU)**

(a): Total 57 universities/institutions are carrying out research on medicinal plants in the country, including Gujarat through research & development projects supported by National Medicinal Plants Bard (NMPB), Ministry of AYUSH, under its Central Sector Scheme on 'Conservation, Development and Sustainable Management of Medicinal Plants'. In addition, 42 research institutions / centre / units functioning under Research Councils, Ministry of AYUSH is also engaged to carry out research on medicinal plants.

Besides, Council for Scientific and Industrial Research (CSIR), through its 05 constituent laboratories, 58 universities/institutions supported through research & development projects by Department of Bio-technology (DBT) and Directorate of Medicinal and Aromatic Plants Research (DMAPR), Anand, Gujarat under Indian Council for Agricultural Research (ICAR) along with 26 ICAR- All India Coordinated Research Projects (AICRP) are also working to carryout research activities on medicinal plants. Details are at **Annexure-I**.

(b)&(c): Yes, researches undertaken at Central Council for Research in Ayurvedic Sciences under Ministry of AYUSH has developed 09 New drugs and technology has been transferred to various industries for commercialization. In addition, Council of Scientific & Industrial Research (CSIR) has developed herbal formulations by their supported researches at CSIR-CIMAP, CSIR-NBRI and CSIR-CDRI and technology has been transferred to industry for its commercialization. Details are attached at **Annexure-II**.

(d): To make country global leader in Ayurveda, Ministry of AYUSH undertakes various activities under Central Sector Scheme for promotion of International Cooperation, (IC Scheme) with the mandate of promotion of AYUSH among people in foreign countries.

AYUSH experts are deputed to foreign countries to participate in international meetings, conferences, training programmes, seminars and on special assignment of the Government of India for promotion and propagation of AYUSH Systems. Financial assistance is also provided for presentation of AYUSH related scientific research papers. Through this Scheme incentives are provide to AYUSH drug manufacturers/ entrepreneurs/ AYUSH institutions, AYUSH drug and Hospitals etc. for participating in International exhibitions/ conferences/ workshops/ seminars/ road shows/ trade fairs, etc. for generating awareness amongst the participating public about the AYUSH systems of medicine.

To boost export of AYUSH products, incentive are provided to AYUSH manufacturers for Market Authorization/ registration of AYUSH products with USFDA/EMEA/UK-MHRA/ NHPD (Canada)/ TGA and other international regulatory agencies, etc.. So far more than 50 products (Unani and Ayurveda) have been registered in 08 countries namely Kenya, USA, Russia, Latvia, Canada, Oman, Tajikistan and Sri Lanka. There is a provision of financial support up to Rs. 1.00 Crores for strengthening of Health Centre(s)/ Institution(s) in the foreign host country.

As of now, Ministry of AYUSH has signed 25 Country to Country MoUs for Cooperation in field of Traditional Medicine and Homoeopathy. 23 MoUs for undertaking Collaborative Research / Academic collaboration and 13 MoUs for setting up AYUSH Academic Chairs have been signed with foreign Universities. 33 AYUSH Information Cell have been set up in 30 countries to disseminate authentic information about AYUSH systems of Medicine. Ministry of AYUSH under its Fellowship Scheme offers 104 scholarships every year to the eligible foreign nationals from 99 countries for undertaking undergraduate (UG), postgraduate (PG) and Ph. D courses in AYUSH system including Ayurveda in various premier AYUSH institutes in India. The Fellowship Scheme aims at promoting AYUSH education and achieving recognition and acceptance of our traditional medicine system abroad.

Annexure-I

1. National Medicinal Plants Board (NMPB)

S.No	States/ Union Territories Names	Number of Institutes
1)	Andhra Pradesh	01
2)	Arunachal Pradesh	01
3)	Assam	02
4)	Delhi	02
5)	Gujarat	03
6)	Himachal Pradesh	05
7)	Jammu and Kashmir	01
8)	Karnataka	04
9)	Kerala	06
10)	Ladakh	01
11)	Madhya Pradesh	02
12)	Maharashtra	05
13)	Odisha	01
14)	Puducherry	01
15)	Punjab	01
16)	Rajasthan	03
17)	Tamil Nadu	04
18)	Telangana	02
19)	Uttar Pradesh	02
20)	Uttarakhand	04
21)	West Bengal	06
	Total	57

2. Research Councils

S. No.	State / Union Territory	Number of Institutes
Central Council for Research in Ayurvedic Sciences (CCRAS)		
(1)	Andhra Pradesh	01
(2)	Jammu & Kashmir	01
(3)	Karnataka	01
(4)	Madhya Pradesh	01
(5)	Maharashtra	01
(6)	Tamilnadu	01
(7)	Uttar Pradesh	01
(8)	West Bengal	01
Central Council for Research in Homoeopathy (CCRH)		
(9)	Tamilnadu	01
(10)	Telangana	01
(11)	Uttar-Pradesh	01
(12)	West-Bengal	01
Central Council for Research in Siddha (CCRS)		
(13)	Andhra Pradesh	01
(14)	Delhi	01
(15)	Karnataka	01
(16)	Kerala	01
(17)	Puducherry	01
(18)	Tamilnadu	03
Central Council for Research in Unani Medicine (CCRUM)		
(19)	Andhra Pradesh	01
(20)	Assam	01
(21)	Bihar	01
(22)	Delhi	03
(23)	Jammu and Kashmir	01
(24)	Karnataka	01
(25)	Kerala	01
(26)	Madhya Pradesh	02
(27)	Maharashtra	01
(28)	Odisha	01
(29)	Tamil Nadu	01
(30)	Telangana	01
(31)	Uttar Pradesh	06
(32)	West Bengal	01
	Total	42

3. Council of Scientific & Industrial Research (CSIR)

S. No.	State / Union Territory	Number of Institutes
(1)	Assam	01
(2)	Himachal-Pradesh	01
(3)	Jammu & Kashmir	01
(4)	Uttar-Pradesh	02
	Total	05

4. Indian Council of Agricultural Research (ICAR)

S. No.	State / Union Territory	Number of Institute
(1)	Gujarat	01

ICAR- All India Coordinated Research Projects (AICRP)

Sl. No.	State / Union Territory	Number of Institute
(1)	Andhra Pradesh	01
(2)	Arunachal Pradesh	01
(3)	Assam	01
(4)	Bihar	02
(5)	Chhattisgarh	01
(6)	Gujarat	01
(7)	Haryana	01
(8)	Himachal Pradesh	01
(9)	Jammu & Kashmir	01
(10)	Jharkhand	01
(11)	Karnataka	01
(12)	Kerala	01
(13)	Madhya Pradesh	02
(14)	Maharashtra	02
(15)	Odisha	01
(16)	Rajasthan	02
(17)	Tamilnadu	01
(18)	Uttar Pradesh	02
(19)	Uttarakhand	01
(20)	West Bengal	02
	Total	26

5. Department of Bio-technology (DBT)

Sl. No.	State / Union Territory	Number of Institute
(1)	Arunachal Pradesh	05
(2)	Assam	17
(3)	Bihar	02
(4)	Delhi	02
(5)	Gujarat	01
(6)	Haryana	01
(7)	Himachal Pradesh	01
(8)	Jammu & Kashmir	01
(9)	Karnataka	03
(10)	Kerala	02
(11)	Maharashtra	01
(12)	Manipur	03
(13)	Meghalaya	02
(14)	Mizoram	03
(15)	Nagaland	01
(16)	Odisha	02
(17)	Sikkim	03
(18)	Tripura	02
(19)	Uttar Pradesh	04
(20)	West Bengal	02
	Total	58

1. Central Council for Research in Ayurvedic Sciences (CCRAS)

S. No.	Product Name	Process
1)	AYUSH-64	An Anti-Malarial preparation.
2)	BAL RASAYAN	A preparation for general resistance in children.
3)	AYUSH Ghutti	A preparation for Cough, Cold, Fever & Diarrhoea of children.
4)	AYUSH-56	An Anti-Epileptic preparation.
5)	AYUSH AG Tablet	A preparation for Ante Natal Care (Anemia).
6)	AYUSH PK Avleha	A preparation for Post Natal Care (to enhance the process of recovery after delivery and other complications of puerperal period).
7)	AYUSH PG Tablet	A preparation for Ante Natal Care (Oedema).
8)	AYUSH 82	An Anti Diabetic Ayurvedic Formulation
9)	AYUSH SG	An Anti-Rheumatoid Arthritis preparation.

2. Council of Scientific & Industrial Research (CSIR)

CSIR-CIMAP has transformed into many patents and products like NBRMAP-DB, an ayurvedic proprietary medicine for diabetes. Similarly, 'Relaxomap' a pain relieving formulation validated scientifically is being marketed by more than three industries across the country.

CSIR-NBRI has recently developed an herbal formulation to alleviate urolithic and technology has been transferred to industry for its commercialization.

CSIR-CDRI has developed 4 herbal principles having medicinal importance which were patented and also commercialized, namely (i) Bacosides Enriched Standardized Extract of Bacopa for memory enhancement (ii) Gugulipid (Hypolipidemic), (iii) CONSAP (Contraceptive cream) and (iv) Reunion (for fracture healing and osteoporosis management).