

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

**RAJYA SABHA  
UNSTARRED QUESTION NO. 2730  
TO BE ANSWERED ON 20<sup>TH</sup> MARCH, 2018**

**RESEARCH UNDER AYUSH SYSTEMS OF MEDICINE**

**2730. SHRI DEREK O' BRIEN:**

Will the Minister of **AYURVEDA, YOGA & NATUROPATHY, UNANI, SIDDHA AND HOMOEOPATHY** be pleased to state:

- (a) what all areas of research are considered under Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homoeopathy as a part of Extra Mural Research (EMR);
- (b) the details thereof; and
- (c) how many patents have been claimed so far under this schemes and the details thereof?

**ANSWER  
THE MINISTER OF STATE (IC) OF THE MINISTRY OF AYURVEDA,  
YOGA & NATUROPATHY, UNANI, SIDDHA AND HOMOEOPATHY  
(SHRI SHRIPAD YESSO NAIK)**

(a ) & (b): Extra Mural Research Scheme of Ministry of AYUSH is designed to encourage R&D in priority areas based on disease burden in alignment to National Health programme.

The scheme will support primarily on the following priority areas:-

- I. Fundamental Concepts, Basic Principles & Theories of AYUSH Systems
- II. Standardization / Validation of Safety, Efficacy & Quality different AYUSH classical drugs, Therapies, Intervention & approaches / Treatment modalities
- III. AYUSH Pharmaceutical Research(New Drug development)
  - Pharmacological studies, safety & toxicity evaluation of ASU&H drugs as per standard guidelines
  - Pharmacokinetics Studies
  - Pharmacodynamics Studies
  - Development of new dosage forms for classical ASU&H formulation
  - Stability & Shelf life studies of ASU&H medicines
  - Clinical Trials

Contd.....

- IV. Scientific exploration & operational research of metallic compounds, Bhashmas, Kushtas, Chunduram & other herbomineral preparations
- V. The study of integrated approach of treatment involving AYUSH systems
- VI. Drug interaction, bioavailability & dose determination studies
- VII. AYUSH intervention in public health care in following areas:-
  - Epidemics diseases & Genus Epidemicus
  - Geriatric Health Care
  - Neglected diseases
  - Mental Health & cognitive disorders
  - Immunological Disorders
  - Anemia & nutritional disorders
  - Maternal & Child health
  - Study on constitution, temperament and miasms
  - Role of AYUSH system as alone or add on treatment in prevention & control of non-communicable diseases
  - Role of AYUSH systems as standalone or adjuvant treatment in National Health Programme
  - Disease prevention / Health promotion
  - Vector borne diseases
- VIII. Systemic review and meta-Analysis of AYUSH research studies
- IX. Literary research & scientific documentation and development of data base
- X. Health Economics related to AYUSH
- XI. Role of ASU & H Intervention in Veterinary Health
- XII. Development of software & Bio instrumentation related to AYUSH

The Central Government may consider supporting important research proposals in other areas of National interest depending upon the credential of the institution & investigator.

(c): 12 Patent have been filed under EMR Scheme. The details is enclosed is **Annexure.**

## List of Patent file

Sl. No.	Application/Patent number	Name of Patent
Ayurveda		
1.	Applied on 10 <sup>th</sup> March, 2014 through NRDC (Filing No. awaited)	Emulgel based topical dosage form in sustained manner containing herbal extract for the treatment of Psoriasis and a process for preparing the same.
2.	2589/MUM/2013 dated 6 <sup>th</sup> August, 2013	A composition for Hemoglobinopathy and Method of Preparation thereof
Unani		
1.	1890/DEL/2010 dated 12/08/2010	“SCAR primers and a kit for the authentication of Unani drug Amla( <i>Emblica officinalis</i> ) and its adulterant shaker kand( <i>Ipomea batatas</i> )”
2.	1945/DEL/2010 dated 17/08/2010	“SCAR primers and a kit for the authentication of Unani drug Zarishk( <i>Berberis Aristata</i> ) and its adulterant Daru Haridra( <i>Coscinium Fenestratum</i> )”
3.	1944/DEL/2010 dated 17/08/2010	“SCAR primers and a kit for the authentication of Unani Drug FilfilSiyah ( <i>Piper nigrum</i> ) and its adulterant carica papaya”
4.	1946/DEL/2010 dated 17/08/2010	“SCAR primers and a kit for the authentication of Unani drug ( <i>Zizyphus Jujube</i> ) and its adulterant jhadberi( <i>Zizyphus Nummularia</i> )”
5.	1942/DEL/2010 dated 17/08/2010	“SCAR primers and a kit for the authentication of Unani drug Senna ( <i>Cassia Acutifolia</i> & <i>Cassia Angustifolia</i> ) and its adulterant (cassia tora& cassia sophera)”
6.	1947/DEL/2010 dated 17/08/2010	SCAR primers and a kit for the authentication of Unani drug Zaafran ( <i>Crocus Sativus</i> ) and its adulterant Qurtum ( <i>Carthamus Tinctorious</i> )
7.	1948/DEL/2010 dated 17/08/2010	SCAR primers and a kit for the authentication of Unani drug RewandChini ( <i>Rheum Emodi</i> ) and its adulterant <i>Rheum Palmatum</i>
8.	1943/DEL/2010 dated 17/08/2010	SCAR primers and a kit for the authentication of Unani drug Mulethi ( <i>Glycyrrhiza Glabra</i> ) and its adulterant <i>Abrus Precatorius</i>
9.	1736/DEL/2010 dated 21/08/2009	SCAR primers and a kit for the authentication of Unani drug Tukhm-e-Kasoos ( <i>Cuscuta Reflexa</i> ) and its adulterant Aftimoon Vilayti ( <i>carthamus tinctorious</i> )
10.	1343/DEL/2010 dated 10/06/2010	Pharmaceutical Compositions based upon Phospholipid Complexed Microparticles of <i>Delphinium Denudatum</i> (Jadwar) Extract & preparation thereof”