

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO.3143
TO BE ANSWERED ON 16/03/2016**

R&D IN DRUG AND PHARMACEUTICAL SECTOR

3143. SHRI DUSHYANT SINGH:

Will the Minister of SCIENCE AND TECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री be pleased to state:

- (a) the details of the collaborative projects between industries and academic institutions, sanctioned by the Department of Science and Technology (DST) for Research and Development (R&D) in drug and pharmaceutical sector in the last three years;
- (b) whether there has been a delay in the completion of many such sanctioned projects;
- (c) if so, the details thereof and the steps taken by the Government to ensure their timely completion;
- (d) the details of the outcomes of these projects which have partially or fully been funded by the Government;
- (e) whether there has been inadequate project monitoring by DST which led to bad financial management of the Government funds and inefficient research; and
- (f) if so, the details thereof along with the remedial measures taken by the Government?

ANSWER

**MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTER OF
STATE IN THE MINISTRY OF EARTH SCIENCES
(SHRI. S. CHOWDARY)**

विज्ञान और प्रौद्योगिकी मंत्रालय में राज्य मंत्री और पृथ्वी विज्ञान मंत्रालय में राज्य मंत्री
(श्री वाई. एस. चौधरी)

- (a) The details of the collaborative projects in drug and pharmaceutical sector for Research and Development (R&D) sanctioned by the Department of Science and Technology (DST) between industries and academic institutions in the last three years is enclosed as Annexure 1.
- (b) & (c): The collaborative projects funded by DST are maximum of 3 years' duration. The R&D projects in drug and pharmaceutical sector have to undergo various phases such as drug discovery, pre-clinical and clinical trial which are resource intensive as well as time consuming. Every study has to be undertaken after taking necessary approvals like ethical clearance, compliance of ICMR guidelines, DCGI approval for clinical trials, etc. The government takes various steps to ensure timely completion by getting the progress report on time, constituting the monitoring committee of experts to monitor the progress. Based on the recommendations of the committee, DST and industry release their committed funds to academic institutions.
- (d) The outcomes of these projects are mainly generating data for regulatory requirement such as safety, efficacy, stability, etc. However, some of the outcomes of the projects which have partially or fully been funded by the DST in drug and pharmaceutical sector are enclosed as Annexure 2.
- (e) & (f): The projects are being monitored adequately by the experts in that area after receiving the technical and financial progress from the collaborative partners. The suggestions of the monitoring committee are communicated to project executives for compliance and implementing.

Collaborative Projects funded by DST in Drugs and Pharmaceutical Sector in the last three years

(Rs. in lakhs)

S.No	Project Title	Duration	Name of the collaborating institutes/ industry	Total approved cost	DST share	Amount released
<u>2012-13</u> 1.	Product Development of <i>Phyllanthus niruri</i> and <i>Glycine max</i>(L.) Merr ., formulation for the management of Diabetes and associated complications, its Validation, Standardisation, Preclinical Toxicology and Pharmacological evaluation	3 yrs	Sri Ramachandra University, Chennai. Visva Bharati University, School of Life Science, Shantiniketan East India Pharmaceutical Works Ltd., Kolkata	251.91	158.052	146.718
2.	Scientific Validation of Safety, Protective and curative Efficacy of a Patented Folklore Medicine “Savliv” Developed for the Management of Hepatic Disorders- A preclinical Study	2 yrs	Sri Ramachandra University, Chennai M/s. Harshul Ayur Pharma, Ramnagar	33.654	21.246	20.308
3.	Genome wide association study to identify genetic variants conferring risk to cardiovascular disease – Indian population	3 yrs	Alluri Sitaramaraju Academy of Medical Sciences, Eluru M. S. University, Vadodara Sri Ramachandra University, Chennai Laila Pharmaceuticals Pvt Ltd., Vijayawada	214.852	179.3744	156.3276
<u>2013-14</u> 1.	Development of Novel Mycotoxin binders for the management for mycotoxicosis in animal and human	1 yr	Tamil Nadu Veterinary and Animal Sciences University, Chennai M/s. Neospark Drugs and Chemicals Pvt. Ltd., Hyderabad	65.00	42.60	42.60
2.	Development of targeted stealth nanocarrier for dual delivery in the treatment of oral cancer	3 yrs	Sastra University, Thanjavur Orchid Research laboratories Ltd, Chennai	58.73	20.265	6.104

Some of the products developed under the DST funded projects in Drug and Pharmaceutical Sector

BONISTA - Teriparatide Injection (recombinant human parathyroid hormone) for the treatment of Osteoporosis was developed by Virchow Biotech Pvt. Ltd., Hyderabad

ALQUIT - Ectoparasitocidal natural product developed for pet animals by Central Institute for Research on Goats, Mathura and M/s Natural Remedies Pvt. Ltd., Bangalore.

RHOCLONE - Anti-Rho-D Immunoglobulin Injection (Monoclonal) 300mcg developed for Hemolytic disease of the new born (HDN) by M/s Bharat Serums & Vaccines Limited, Mumbai.

ARTHAN - A novel topical aerosol spray developed for anti-arthritic using herbs by KMCH College of Pharmacy, Coimbatore and M/s Doctor Thangs Products, Coimbatore.

SYNRIAM – A new anti-malarial drug was developed by M/s Ranbaxy Laboratories Ltd.

AMPHOMUL – A drug for Visceral Leishmaniasis (Kala Azar) was developed by M/s Bharat Serums & Vaccines Ltd., Mumbai.

MYCIDAC - M/s Cadila Pharmaceuticals Ltd., Ahmedabad developed in combination with Paclitaxel Cisplatin for advanced Non Small Cell Lung Cancer (NSCLC).
