

**MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION No. 1637  
TO BE ANSWERED ON WEDNESDAY, JULY 26, 2017**

**STUDY PROGRAMMES IN GUJARAT**

**1637. SHRIMATI DARSHANA VIKRAM JARDOSH:**

**Will the Minister of EARTH SCIENCES be pleased to state:**

- (a) the details of the schemes and study programmes that have been conducted by the Department of Ocean Development in the State of Gujarat during the last three years;**
- (b) the details of funds allocated during the said period for the purpose;**
- (c) whether the Ocean Department has approached the State Government of Gujarat or is contemplating for collaborative research work in that State; and**
- (d) if so, the details thereof?**

**ANSWER**

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

- (a) and (b) Details of projects, schemes and study programmes implemented by the Ministry of Earth Sciences (erstwhile Department of Ocean Development), during the last three years are as follows:**

<b>SI No</b>	<b>Scheme/program &amp; details of project</b>	<b>Institute</b>	<b>Year</b>	<b>Rs. in lakhs</b>
<b>1</b>	<b>Atmospheric Observation System Network - Agromet Advisory Service (AAS) under (i) GraminKrishiMausamSewa (GKMS)' through 8 Agromet Field Units (AMFUs), Anand, Arnej, Dantiwada, Junagadh, Maktampur, Navsari, Targhadia (Rajkot) and Bhachau (ii) Forecasting Agricultural output using Space, Agrometeorology and Land-based observations (FASAL)'</b>	<b>Anand Agricultural University (AAU), Junagadh Agricultural University (JAU), Navasari Agricultural University (NAU), and Sardarkrushinagar Dantiwada Agricultural University (SDAU)</b>	<b>2014-15</b>	<b>36.70</b>

<b>2</b>	<b>Ocean Observation System – Establishment of Isotopic Laboratory Facility for Biogeochemical cycles of trace elements and their isotopes in the Indian Ocean</b>	<b>Physical Research Laboratory, Ahmedabad</b>	<b>2014-15</b>	<b>362.00</b>
<b>3</b>	<b>Research, Education and Training Outreach (REACHOUT) - Marine Biodiversity and Pollution (Multi institutional project) Outreach activities like Vibrant Gujarat and Indian Science Congress 2015 and other outreach programs.</b>	<b>M.K. Bhavnagar university Bhavnagar, Gujarat</b>	<b>2014-15</b>	<b>186.58</b>
<b>4</b>	<b>Seismological Research - "Neotectonic Evolution of Active Faults in Kachchh and Saurashtra, Western India using field and Ground Penetrating Radar (GPR) studies".</b>	<b>M.S. University of Baroda, Vadodara</b>	<b>2014-15</b>	<b>32.97</b>
<b>5</b>	<b>Atmosphere and Climate Research - Modelling Observing Systems and Services (ACROSS) – (i) Gramin Krishi Mausam Sewa (GKMS)' through 8 Agromet Field Units (AMFUs), Anand, Arnej, Dantiwada, Junagadh, Maktampur, Navsari, Targhadia (Rajkot) and Bhachau (ii) Forecasting Agricultural output using Space, Agrometeorology and Land-based observations (FASAL)'</b>	<b>Anand Agricultural University (AAU), Junagadh Agricultural University (JAU), Navasari Agricultural University (NAU), and Sardarkrushinagar Dantiwada Agricultural University (SDAU)</b>	<b>2015-16</b>	<b>54.76</b>
<b>6</b>	<b>Research, Education and Training Outreach (REACHOUT)- i. Effect of Human Interventions in the Fragile Ecosystem along Gulf of Cambay, Mainland Gujarat ii. Seasonal dynamics of enteropathogenic bacteria in Gulf of Khambat, Gujarat: its impact on health of coastal population</b>	<b>M.S. University of Baroda, Vadodara  Centre for Marine Salt and Chemical Research Institute Bhavnagar</b>	<b>2015-16</b>	<b>73.07</b>

<b>7</b>	<b>Seismological And Geoscience (SAGE)-</b> i. <b>Deep Seismic Profiles in Kachchh</b> ii. <b>Seismic Microzonation of Bhuj city</b> iii. <b>Integrated Project On Active Fault Mapping In Kachchh Basin, Western India</b>	<b>Institute of Seismological Research, Gandhinagar .do.</b>  <b>Maharaja Sayajirao University of Baroda, Vadodara</b>	<b>2015-16</b>	<b>237.71</b>  <b>15.20</b>  <b>307.50</b>
<b>8</b>	<b>Atmosphere and Climate Research - Modelling Observing Systems and Services (ACROSS) - (i) GraminKrishiMausamSewa (GKMS)' through 8 Agromet Field Units (AMFUs), Anand, Arnej, Dantiwada, Junagadh, Maktampur, Navsari, Targhadia (Rajkot) and Bhachau (ii) Forecasting Agricultural output using Space, Agrometeorology and Land-based observations (FASAL)'</b>	<b>Anand Agricultural University (AAU), Junagadh Agricultural University (JAU), Navasari Agricultural University (NAU), and SardarkrushinagarDantiwadaAgricultural University (SDAU)</b>	<b>2016-17</b>	<b>51.71</b>
<b>9</b>	<b>Ocean Services, Technology, Observations, Resources Modelling and Science (O-STORMS) Trace Elements and Isotopes in sediments and corals of the northern Indian Ocean: Implications to Paleoclimate / Paleoceanography</b>	<b>Physical Research Laboratory, Ahmedabad</b>	<b>2016-17</b>	<b>3.00</b>
<b>10</b>	<b>Research, Education and Training Outreach (REACHOUT) High Impact Weather Events in EurAsia Selected, Simulated and Storified (HIWAVES3)''</b>	<b>IIT, Gandhinagar,</b>	<b>2016-17</b>	<b>149.63</b>

(c) No. Madam.

(d) Doesn't arise.

\*\*\*\*\*