

**GOVERNMENT OF INDIA  
EARTH SCIENCES  
LOK SABHA**

UNSTARRED QUESTION NO:4418  
ANSWERED ON:03.05.2012  
UPGRADATION OF TECHNOLOGY IN OCEAN DEPARTMENT  
Tanwar Shri Ashok

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

- (a). whether any international or technical agreements have been signed with other countries in respect of developing the technology of ocean department;
- (b). if so, the details thereof;
- (c). the total budgetary allocation for the same; and
- (d). the details thereof for the past three years?

**Answer**

MINISTER OF STATE IN THE MINISTRY OF PLANNING, MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCES (Dr ASHWANI KUMAR)

(a). Yes, Madam.

(b). An agreement has been signed with Experimental Design Bureau of Oceanological Engineering (EDBOE), Russian Academy of Sciences, Moscow, Russia in 2003 for the `Development of joint technology for unmanned submersible capable of working up to 6000 meters water depth`. An unmanned submersible - ROSUB 6000 was developed and tested successfully in Central Indian Ocean Basin in April 2010 at full ocean depth of 5289 meters.

Another agreement has been signed with M/s Williamson & Associates, USA in 2007 to `Develop a wire-line Autonomous Coring System (ACS) for water depth up to 3000 meters`. ACS has been developed and the deep sea trials are in progress.

(c). Budgetary allocation for the development of unmanned submersible ROSUB 6000 with M/s EDBOE, Russia and development of wire line Autonomous Coring System (ACS) with M/s Williamson Associates, USA were Rs. 1828.0 lakhs and Rs. 2724.0 lakhs, respectively.

(d). Budgetary allocation in the last three years for the development of unmanned submersible ROSUB 6000 with M/s EDBOE, Russia and development of wire line Autonomous Coring System (ACS) with M/s Williamson Associates, USA were nil and Rs.2324.0 lakhs, respectively.