

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION No. 1451
TO BE ANSWERED ON THURSDAY, MARCH 10, 2016**

DEVELOPMENT IN TECHNOLOGY FOR DEEP SEA MINING

1451. PROF. M.V. RAJEEV GOWDA

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether there are any plans in pipeline for development of technology and industrial base for deep sea mining to extract deep-sea reserves like gas hydrates and if so, the details thereof?**

**ANSWER
MINISTER FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(Dr. HARSH VARDHAN)**

- (a) Yes, Sir. National Institute of Ocean Technology (NIOT) under the aegis of Ministry of Earth Science, Government of India is engaged in developing technologies for establishing the feasibility of extraction of gas from the marine gas hydrates. A Remotely Operated Underwater Vehicle and an Autonomous Coring System have been developed for the exploration of gas hydrates. Numerical and laboratory experiments are conducted for studying efficacy of various techniques in extraction of gas from the hydrates. Experiments at the potential gas hydrates sites have been planned in association with offshore industry for establishing the technical feasibility of extraction of gas from the marine gas hydrates.**
