

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION No. 1796
TO BE ANSWERED ON MONDAY, MARCH 12, 2018**

R&D TO TACKLE CLIMATE CHANGE

1796. SHRI MD. NADIMUL HAQUE:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether Government is aware that soils can serve as a sink for carbon dioxide and be helpful in tackling climate change;**
- (b) if so, whether Government has taken any steps for research and development towards this initiative; and**
- (c) if not, the reasons therefor and whether Government has taken steps to start the much needed research under their Atmospheric and Climate Research Modelling, observing systems and services (ACRMOSS) schemes?**

ANSWER

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

- (a) Yes Sir. Soils act as a major sink and source of atmospheric carbon dioxide depending on the climatic conditions, moisture content, vegetation type, and management practice. Proper management practise and resource allocation soils can be made to store a large amount of carbon that will be useful in tackling climate change**
- (b) There are various research activities by different Government organizations in India, few example, (1) MetFlux India project at the Centre for Climate Change Research, Indian Institute of Tropical Meteorology, Pune. This project aims to understand Carbon Dioxide and other greenhouse gases sources and sink patterns at different ecosystems over India (2) National Carbon Project at the National Remote Sensing Centre, Hyderabad. This project envisages developing a holistic understanding of the Caron cycle of India. A sub-component of this project envisages making an assessment of soil carbon pool of India and its dynamics**
- (c) Yes Sir. ACROSS scheme has been implemented by MoES and the research under this scheme is being carried out by various institutions under this ministry.**
