GOVERNMENT OF INDIA EARTH SCIENCES LOK SABHA

UNSTARRED QUESTION NO:3477 ANSWERED ON:01.12.2010 CLIMATE CHANGE IN NORTH POLE Sinha Shri Shatrughan

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether there is any proposal to undertake research on climate changes in the north pole;
- (b) if so, the details thereof;
- (c) the estimated expenditure likely to be incurred on such research;
- (d) whether any agreement has been signed by the Government with other countries in this regard; and
- (e) if so, the details thereof?

Answer

MINISTER OF HUMAN RESOURCE DEVELOPMENT, MINISTER OF SCIENCE AND TECHNOLOGY, MINISTER OF EARTH SCIENCES AND MINISTER OF TELECOMMUNICATION AND INFORMATION TECHNOLOGY (SHRI KAPIL SIBAL)

- (a) Yes, Madam. The National Centre for Antarctic and Ocean Research (NCAOR) alongwith National Institute of Oceanography (NIO), Goa have a research project for 'Long term monitoring of Kongsfjorden system (Ny-A lesund, Svalbard, Norway) of Arctic region for climate change studies'.
- (b) The objective of the project is to establish a long-term comprehensive physical, chemical, biological and atmospheric measurement programme to study:
- 1. The variability in the Arctic/Atlantic climate signal.
- 2. The effect of interaction between the warm Atlantic water and the cold glacial-melt fresh water on the biological productivity and phytoplankton species composition and diversity within the fjord.
- 3. The winter convection and its role in the biogeochemical cycling.
- 4. The trigger mechanism of spring bloom and its temporal variability and biomass production.
- 5. The production and export of organic carbon in the fjord.
- (c) Expenditure of Rs.15 crore is estimated to be incurred for the programme during current Five Year Plan.
- (d)&(e) The study is to be carried out under the MoU between National Centre for Antarctic and Ocean Research (NCAOR) Goa and the Norwegian Polar Institute (NPI), Tromso, Norway.