



जवाहरलाल नेहरू विश्वविद्यालय  
JAWAHARLAL NEHRU UNIVERSITY  
नई दिल्ली/NEW DELHI-110 067

No. Acad.III/PQ/1078/2015/ 3263

10<sup>th</sup> August, 2015

Shri S. K. Ghildiyal  
Deputy Secretary (CU-II Desk)  
Department of Higher Education-  
Ministry of Human Resource Development  
Shastri Bhavan  
NEW DELHI-110 001

**Sub: Material for reply to Lok Sabha Unstarred Question Diary No. 11346 for 12.08.2015 asked by Sh. Elumalai V regarding Climate Change Studies-reg.**

Dear Sir,

Please refer to your fax dated 05.08.2015 on the subject cited above.

As desired, we forward herewith the draft material to the aforesaid Lok Sabha Question for further action at your end.

Thanking you,

Yours faithfully,

(YASHWANT SINGH)  
Officer on Special Duty

**Encl:** As above.

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**Material for reply to Lok Sabha Unstarred Question Diary No. 11346 for 12.08.2015 asked by Shri Elumalai V. regarding Climate Change Studies**

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**Q. (a) Whether the Jawaharlal Nehru University is trying with other universities in the country for climate change studies; and**

Reply: Jawaharlal Nehru University has initiated an Inter-University Consortium on Cryosphere and Climate Change (IUCCCC), involving three other Universities, comprising of two state and two central universities, i.e. Kashmir University, Srinagar, University of Jammu, J&K and Sikkim Central University, Sikkim on February 13, 2012. In order to assess and evaluate impact of climate change on society, a project proposal at watershed level on the Himalayan Cryosphere: Science & Society; was submitted to the Climate Change Programme of the Department of Sciences & Technology, Govt. of India on September 27, 2012. Project was awarded to the Consortium (IUCCCC) on March 7, 2013 and has completed two years out of the proposed five years of work on the Himalayan Cryosphere; Science & Society (HC:S&S).

**Q. (b) If so, the details thereof and the progress made so far in this regard?**

Reply: The member Institutions have been partially able to procure state-of-art instruments through the Govt. of India's generous funding. The member Universities have already finished inventory work on glaciers in Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Sikkim. Process of installation of instruments in the glacier-field-stations is underway and would be complete by October 2015. In depth work on the benchmark glaciers has been completed for two field seasons (2013-14 & 2015-16); obtained data is being analyzed on the current status of cryosphere for these glaciers after detailed instrumental surveys; along with social response and adaptability for the identified watersheds at household level. Vertical profiling of glaciers in HP and UK, using GPR and total stations have been completed during summer field-season 2015-16. The member universities in J&K and Sikkim would complete this task of mass measurement of glacier in the post-monsoon field-season of 2015-16. Four capacity-building trainings have been conducted on the glaciers and instruments until now. Physico-chemical and microbiological analysis of Changme Khangpu and Khangchengayao glaciers' ice samples and glaciers fed water samples have already been carried out in Sikkim Himalaya. Black Carbon monitoring and glacial stream flow/discharge in the Himalayan region has been done in the Kashmir Himalaya.