



**G.B. Pant Institute of Himalayan Environment and Development,
Himachal Unit, Mohal-Kullu- 175 126, Himachal Pradesh**

Expression of Interests (EOI)

G.B. Pant Institute of Himalayan Environment and Development, Himachal Unit, Mohal-Kullu, Himachal Pradesh under National Green Tribunal Project “**Assessment of Environmental Impacts in and around the Rohtang Pass (3978 m) and its snow capped areas**” invites Expression of Interests from willing experts /organizations for undertaking time bound expert contracts/consultancy assignments for specific tasks. EOI accompanied by a brief concept proposal along with a brief profile (expert/organization) should reach to the Scientist In-charge (samantss2@rediffmail.com) by or before November 21, 2014. For details of tasks, please visit Institute website (<http://gbpihed.gov.in>).

Major Tasks

Measurement of particulate matter would include total suspended particulates (TSP) matter, respirable particulate matter below 10 micron (PM_{10}), fine particulate matter below 2.5 micron ($PM_{2.5}$), and concentration of black carbon aerosols enroute to Rohtang Pass mainly at Kothi. Analysis of ionic components from the exposed particulate matter and snow samples comprise anions, cations and transition metals. Measurement of columnar aerosols comprises aerosol optical depth (AOD) and radiative forcing. While observation of meteorological parameters will include their measurements and their relationship with the ambient air pollution parameters. Vehicular influx during season and off-season is required to obtain vehicular data. The existing municipal/trekking solid waste and horse dung waste management practices need to be assessed in identifying their sources and in suggesting their mitigating measures en-route to Rohtang Pass. To assess the reforestation activities being carried out by the concerned Forest Department with the secondary data from the department and their ground verification in respective area need to be assessed. Overall, these forms of pollution and other impacts on the nearby snow area or glacier area need to be tested in terms of their shrinking. Documentation and its reporting is to be sent ultimately to the NGT.

Scientist In-charge