



**आईसीएमआर - राष्ट्रीय पर्यावरणीय स्वास्थ्य अनुसन्धान संस्थान**  
**ICMR - National Institute for Research in Environmental Health**  
**(स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार कल्याण मंत्रालय, भारत सरकार)**  
**(Dept. of Health Research, Ministry of Health and Family Welfare, Govt. of India)**

**कमला नेहरू अस्पताल भवन, गांधी मेडिकल कॉलेज कैम्पस**  
**Kamla Nehru Hospital Building, Gandhi Medical College Campus**  
**भोपाल – 462 001, मध्यप्रदेश, भारत**  
**Bhopal - 462 001 (MP), India**

**“SIMPLIFIED SECRETS OF GEOGRAPHIC INFORMATION SYSTEM (GIS) FOR BEGINNERS”**  
**One Day Hands on Workshop on**  
**Basics of Geographic Information System (GIS) Applications for Public Health Practitioners**

**Date: Tuesday, 13<sup>th</sup> and 20<sup>th</sup> February 2018**

The connection between public health and geography can be traced back to Hippocrates (400 BC) who deduced that spatially varying factors such as climate, elevation, environmental toxins, ethnicity and race contributed to the spatial patterns of illness. In mid 1800s Dr. John Snow deduced the source of a cholera outbreak in London based on a simple visualization of the incidents of cholera in relation to water pumps (Cholera is called as father of Public Health since then). There have been several publications and reviews in the past decade that focus on the application of geographic information system or GIS to different areas of health research. This is because a GIS allows us to view, understand, question, interpret, and visualize our world in ways that reveal relationships, patterns, and trends in the form of maps, globes, reports, and charts. The power of GIS lies in its ability to analyze, store and display large amounts of spatially referenced data. A GIS software is designed to capture, manage, analyze, and display all forms of geographically referenced information. GIS software helps you answer questions and solve problems by looking at your data in a way that is quickly understood and easily shared—on a map.

Indian Council of Medical Research (ICMR), a Government of India’s apex autonomous organization for bio-medical research in the country. The ICMR set up its 31st permanent Research Centre “National Institute for Research in Environmental Health” at Bhopal on 11th October 2010 to focus on the issues of environmental health research aimed at becoming a Centre of excellence in capacity building for research and health interventions to meet challenges in environmental disasters in the country. As a part of educational training ICMR-NIREH is conducting one day hands on training on basics of GIS applications that will be useful for public health experts who wish to start using GIS tools in their research work. The program consists of didactic lectures followed by hands on experience on the topics being covered.

Contd.

**Aim: To make participants self-sufficient to harness potentials of GIS applications in their research**

**Course contents:**

- Basic elements of map and geographic information system (GIS)
- Installing Open access GIS software QGIS
- Making your own new shape (.shp) file using in QGIS
- Handling and manipulating shp file using some commonly used tools in GIS
- Safely storing and exporting your work for sharing, display and publication

**Course duration:** One day

**Registration fee:** Rs. 500/-

(The payment can be made by DD/ NEFT in favour of "Director, ICMR-National Institute for Research in Environmental Health, Bhopal" payable at Bhopal)

**Account details for NEFT Name: National Institute for Research in Environmental Health, Bhopal Account No. 31629042709 Bank: STATE BANK OF INDIA Branch: GANDHI MEDICAL COLLEGE, BHOPAL IFSC Code: SBIN0010140**

**Dead line for registration:** 5<sup>th</sup> February 2018

**Venue:** ICMR-National Institute for Research in Environmental Health, Bhopal

**Please note:**

- The number of participants is restricted to **15** and will be on first come first serve basis.
- Willing participants **may please check the availability** of seats before transferring payment.
- Registration fee includes working lunch and workshop kit.
- Candidates may bring their laptops for hands on exercise
- The workshop starts at 10 am till 5 pm
- The candidates are required to make their own accommodation and transport arrangements

All correspondence may please be addressed to:

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**ICMR-National Institute for Research in Environmental Health**

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**Date: Tuesday, 13<sup>th</sup> / 20<sup>th</sup> February 2018**

**Venue: Conference Hall ICMR-National Institute for Research in Environmental Health, Bhopal**

**Registration Form**

**Name** .....

**Age** .....

**Gender (Male/Female)** .....

**Education** .....

**Organization** .....

**Address** .....

**Contact No.** .....

**Email** .....

**Expectations from the Workshop:** .....

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**Details of the Registration fee: (DD/ NEFT in favour of Director, ICMR-National Institute for Research in Environmental Health payable at Bhopal)**

**DD/NEFT.No:**

**Bank:**

**Issue Date:**

**Signature of Candidate**