

Name of the Centre : **ENVIS Centre on “Toxic Chemicals”**

Host Organisation : **Industrial Toxicology Research Centre, Lucknow**

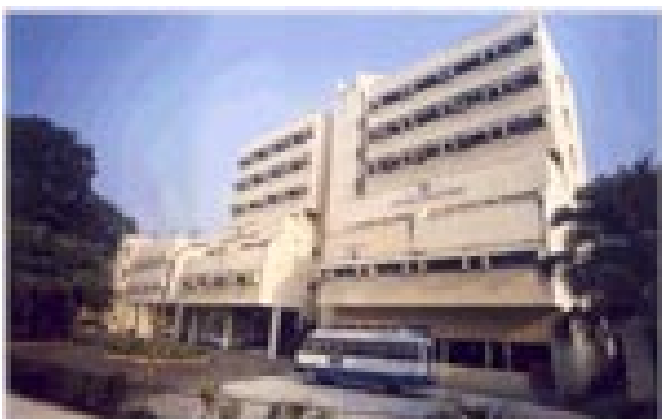
Contact Person :

Prof. Y.K. Gupta, Director, Dr. F.N.Jaffery (ENVIS Coordinator) Industrial Toxicology Research Centre, Post Box No. 80, M.G.Marg Lucknow-226 001, Uttar Pradesh	Telephone : 0522-2284591;2215982 Fax : 0522-2228227, 2228471, 2211547 Email : envis@envisitrc.com & fnj@itrcindia.org Website : http://www.envisitrc.com
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Year of Establishment : **1984**

About Host Organization

The Industrial Toxicology Research Centre (ITRC), Lucknow was established in 1965 and is a constituent laboratory of Council of Scientific & Industrial Research (CSIR) dedicated to provide health safeguards to industrial and agricultural workers through its rich knowledgebase, created painstakingly over the years. The main campus is located on Mahatma Gandhi Marg in Lucknow city, while the other campus is in village Gheru on Lucknow-Kanpur highway about 22 km from the main campus.



Activities of the Centre

The ENVIS Centre at ITRC is one of the earliest network partners on toxic chemicals. The Centre maintains toxicology information base drawing resource from ITRC Library comprising of 14,000 books, 300 regular Journals, abstracting services and the Internet. Since a large number of new chemicals and materials are being introduced to which man is exposed directly and indirectly, emphasis is laid on developing database on priority chemicals, that is, those being used in large volumes in our country. Also, to understand the possible impact of chemicals on human health and ecosystem and for a sound regulatory decision, a database acquires prime importance.

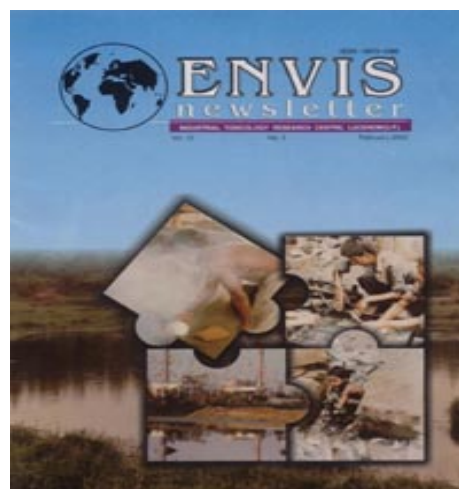
The activities of the Centre are:-

- To prepare detailed toxicity data profiles of chemicals used in large volumes in India and maintain a computerized data base,
- Regular compilation and dissemination of current literature in toxicology along with abstracts,
- Preparation of detailed state of art dossiers of important chemicals of relevance to the country for regulatory purposes, and
- Answering of technical queries from industry, regulatory agencies, government departments.
- From time to time activities for mass awareness are carried out through distribution of publicity material like posters, pamphlets etc. on
 - ◇ Pesticides, Environment and Safety (booklet)
 - ◇ Metals, Environment and Safety (booklet)
 - ◇ Warning labels on hazardous materials
 - ◇ Chemical hazards (bi-lingual poster)
 - ◇ Proper usage of pesticides (pamphlet in Hindi)

ENVIS Publications

○ ENVIS Newsletter

- ◇ A quarterly ENVIS newsletter is being published from August, 1993 regularly which provides information on one toxic chemical in each issue under the head Mini Profile, Regulatory Trends, Current Concerns and Odds & Ends which cover issues on environmental health. The Newsletter will soon be published with new features viz. inclusion of research findings from ITRC having impact on regulations, gazette notifications, environmental health related policies etc.



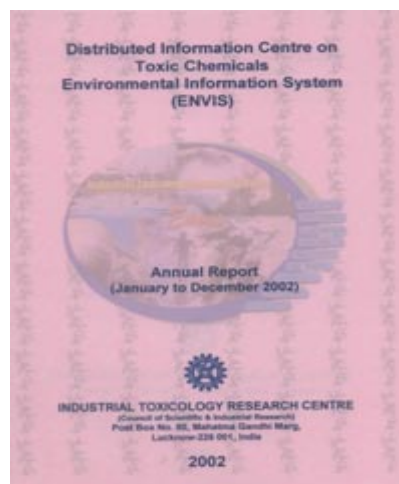
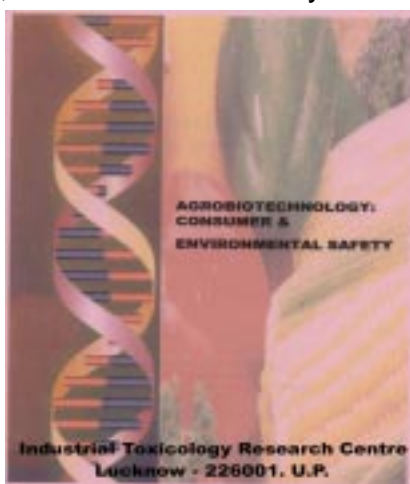
○ Publications

The Centre has published a number of Books, Status Reports, Bibliographies, reviews and monographs. Following publications have been brought out so far:

◇ Books

- ◇ Disaster Preparedness in Chemical Industry – Year 1986, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Viswanathan P.N., Jaffery F.N., Misra V. and Ray P.K.

- ◆ Toxicity Data Handbook (volume 1) – Year 1986, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Jaffery F.N., Chawla G., Kakkar P., Misra V., Viswanathan P.N. and Ray P.K.
- ◆ Toxicity Data Handbook (volume 2) – Year 1986, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Jaffery F.N., Chawla G., Kakkar P., Misra V., Viswanathan P.N. and Ray P.K.
- ◆ Toxicity Data Handbook (volume 3) – Year 1989, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Jaffery F.N., Chawla G., Kakkar P., Misra V., Soni R., Viswanathan P.N. and Ray P.K.
- ◆ Toxicity Data Handbook (volume 4) – Year 1989, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Jaffery F.N., Chawla G., Kakkar P., Misra V., Soni R., Viswanathan P.N. and Ray P.K.
- ◆ Manual for safety evaluation of chemicals – Year 1989, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Dikshit T.S.S., Chandra S.V., Viswanathan P.N., Ray P.K.
- ◆ Toxicology Atlas of India – Year 1990, Publisher: ENVIS Centre at Industrial Toxicology Research Centre & Authors: Jaffery F.N., Viswanathan P.N., Bhattacharji B.D., Kakkar P., Raizada R.B., Dikshit T.S.S., Singh K.P., Ahmed M., Beg M.U., Kidwai R.M., Agarwal S.N., Chandra S.V. and Ray P.K.



◆ Status Report

- ◆ Status of lead in India – Year 2001, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Jaffery F.N.
- ◆ Chemical Safety Information in India (To commemorate the 50th Anniversary of India's Independence.) Year 1997, Publisher: ENVIS Centre, Industrial Toxicology Research Centre & Author Jaffery F.N.

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- ◇ A status report on “Toxicological Research in India- 1995-1999 Year 1999, Publisher: ENVIS Centre, Industrial Toxicology Research Centre & Author Jaffery F.N and Seth P.K.

 - ◇ **Reports**
 - ◇ Ideal site selection for environmentally safe landfill of hazardous solid waste - Background information – Year 1996 Publisher: ENVIS Centre, Industrial Toxicology Research Centre & Author Jaffery F.N. and Viswanathan P.N.
 - ◇ Analysis of samples of different categories of Hazardous Industrial Waste - Background information – Year 1996, Publisher: ENVIS Centre, Industrial Toxicology Research Centre & Author Viswanathan *et al.*
 - ◇ An overview of the safety and control of pollutants and toxic chemicals in India – Year 1989, Publisher: ENVIS Centre, Industrial Toxicology Research Centre & Authors: Ray P.K. Viswanathan P.N., Goyal Y and Jaffery F.N.
 - ◇ Agrobiotechnology: Consumer & Environmental Safety. Vivek Viswanathan and F.N. Jaffery. 2003 Publisher: ENVIS Centre, Industrial Toxicology Research Centre

 - ◇ **Specific Bibliographic Compilation**
 - ◇ Industrial and Environmental Health - selected Indian literature (1945-1983) – Year 1984, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author Khan R.R., Agarwal S.N., Zaman S. and Saxena P.N.
 - ◇ Bibliographic compilation of toxicology sources in ITRC – Year 1985 , Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Zaman S. & Upadhyay D.
 - ◇ Pollution problems in pulp and paper industry - a bibliography of world literature (1932- 1983)Year 1987, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Authors: Nigam U., Upadhyay D., Agarwal S.N. and Khan R.R.
 - ◇ Updating of bibliography of heavy metal toxicity related data based on work in India, 1981-1988 – Year 1988, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Ahirwar R & Upadhyay D.
 - ◇ Annotated bibliography of tanning industry in India – Year 1989, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Upadhyay D & Kidwai R.M.

 - ◇ **Reviews**
 - ◇ Arsenic – Year 1987, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Toxicology Data Unit compilation
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- ◆ Aflatoxin –Year 1985, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Toxicology Data Unit compilation.
- ◆ Endosulfan – Year 1986, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author: Toxicology Data Unit compilation.
- ◆ Fusarium – Year 1984, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Author : Toxicology Data Unit compilation.
- ◆ Toxicology: 1994-1998, - Year 1999, Publisher: ENVIS Centre at Industrial Toxicology Research Centre, Authors: Seth P.K & Jaffery F.N.
- ◆ Impact of nutrition on Fluorosis – Year 1998, Publisher ENVIS Centre, Industrial Toxicology Research Centre & Authors: Jaffery F.N., Shaw A., Srivastava A.K. and Viswanathan P.N.

◆ **Monograph**

- ◆ Ecotoxicological and economical impact of Chemical pollutants – Year 2000, ENVIS Centre, Industrial Toxicology Research Centre Author: Jaffery F.N
- ◆ Besides the above mentioned publications, several original articles on conceptual aspects in risk assessment and chapters in International publications have also been contributed by ENVIS staff

Services

○ **Abstracting Services**

- ◆ This service is being provided and will be continued as a printed version, which is still in demand, by some users. The information selection and storage are ideally suited to meet the demands of the present day users, which include NGOs and industrial institution. The Toxicological Abstracts is also available online which is updated weekly.

○ **Query Answer Services**

- ◆ This service is being provided and continues. Average numbers of queries handled by the Centre per year are 75 - 85.

ITRC's ENVIS Website (<http://www.envisitrc.com>)

- The website contains Newsletters and archives containing back issues from 2000, a database on toxic chemicals, abstract of current literature in toxicology, query form, a list of ENVIS centers with links, etc. The Database DABTOX on Toxic Chemicals of human and environmental health risks contains details on incidences of occupational & environmental risks, safe handling and storage procedures, toxicity data, production and usage of chemicals in India.



Future Plan

- Up-gradation and updating of databank to make it more users friendly.
- A CDROM databank of pesticides, food additives and 500 industrial chemicals.
- Bibliographies on organochlorine and organophosphate pesticides, PCBs, pollution problems in plastic industries, etc.