NISCAIR has state-of-the-art Graphic Art and Print Production Division that comprises the following five sections:

- Graphic Art and Photography
- Production
- DTP
- Computer Facility
- Printing & Binding

The Division undertakes designing, formatting, production and printing of the institute's publications comprising research journals, books, encyclopedias, reports, newsletters, etc. Similar specialized jobs from other CSIR laboratories/institutions, government agencies/departments are also undertaken. In addition, it provides services related to graphic designing, production and printing of annual reports, posters, logos, pamphlets, brochures, folders, etc., mainly in 4-colour, to various clients. Some of the jobs which are received regularly from these clients are: (i) *Current Literature on Science of Science*, a bimonthly journal of NISTADS, (ii) *NISTADS News*, (iii) Ayurvedic Pharmacopoeia and other publications of the Ministry of Health and Family Welfare, (iv) *Mausam*, a quarterly journal of India Meteorological Department, (v) Annual report, newsletter and reports of the Central Pollution Control Board, (vi) CEERI annual report and newsletter, (vii) Rashtriya Ayurvedic Vidyapeeth Folders. 

A view of Graphic Art and Production Sections
(vii) CBRI newsletter, (ix) Newsletter, Brochures of SAARC Documentation Centre, New Delhi, (x) DOD/NAACOR Antarctic Reports, (xi) DSIR annual reports, and (xii) Annual reports of other CSIR labs like IIP, CBRI, CMERI, NISTADS, etc.

Also, the S&T personnel of the Division deliver lectures/impart training on various aspects of designing, publishing and printing to the students of Associateship in Information Science (AIS) and students from SAARC countries.

**Graphic Art and Photography**

Graphic Art Section takes care of all the visuals, designing, drawing and illustrations of various in-house and outside publications. This section is equipped with high-end systems and accessories to handle good visuals, creative designing and illustrations. The jobs flap/cover undertaken include cover designs, creative illustrations, CD design, logo design, specialized layout, formatting, etc. Designing of posters, mast-heads, letterheads, photo mixing, scanning, etc. are also undertaken. Designing of posters through digital format in big sizes on photographic laminated medium and also on vinyl/flex board medium is yet another specialization of the section.

The photo studio attached to the section handles conventional as well as digital photography. Digital video films are also shot. The section undertakes photographic assignments from CSIR and its various labs. It provides complete support to popular science magazines and other publications. It also maintains record of events of NISCAIR and thereby helps in creating ‘Photo Archives’.

**Production**

Production Section looks after planning, cost estimation, scheduling, etc. of various printing jobs undertaken by the institute. Proof reading, co-ordination with different sections and outside clients and follow-up for payment are some of the major activities.

The section works as a liaison between Graphic Art, DTP, computer facility, printing and binding and carries out all production works and gets printed various types of publications, such as journals, monographs, encyclopedias, popular science books, seminar proceedings, annual reports, brochures, folders, etc. in 4-colour/black & white. The section monitors every job, right from its planning till its final printing, with a quality check at every stage. It also looks after the costing/financial aspect of every job whether carried out in-house or subcontracted to outside vendor.

Section takes feedback from the parties about the print quality and collection of the job fees, etc. Outreach activity for the division is also done to create awareness about its services.

**Desk Top Publishing (DTP)**

This section is mainly involved in DTP processing and scanning jobs. The formatting/processing is done in such a way that the line drawings and graphics are also incorporated into the laid out pages to get a composite single page, laser-printer output. It is well-equipped with advanced computers, printers, scanners and softwares, such as MS Word, PageMaker, CorelDraw and Photoshop.

**Computer Facility**

The computer facility is equipped with adequate number of high-end computer systems along with scanners and printers. It provides services such as data entry, scanning of photographs, illustrations, chemical structures, graphs, bar codes, etc. and complete page formatting of journals, etc using appropriate software. It also makes slides for presentations.
Graphic Art and Print Production

**Printing**

Printing section takes care of all printing assignments/jobs through offset process. Printing is one of the major activities of the institute and all the NISCAIR research journals are printed in this section. The printing section has three single-colour and three double-colour sheet-fed offset printing machines.

The section also has a plate-making and binding unit. The output of the printing section is around 30,000 pages per annum including 7000 colour pages. Section provides quality output to the institute as well as to the clients.

Summer training is given to the students of ‘Printing Technology’ of Pusa Polytechnic.

**Modernization Plan**

To further improve the quality of print production, a modernization plan for pre-press and post-press is in progress. It includes a system that would enable one-piece planned imposed four pages, which can be directly transferred onto film/plate for fine quality printing. This will also minimize chances of error. Procurement of a four-colour offset printing machine, compatible with advanced features, forms an important component of the modernization plan.

**Jobs Undertaken**

**In-House Jobs**

In addition to the regular job of printing NISCAIR research journals, designing and publishing of Science Reporter, Vigyan Pragati, Science ki Duniya, CSIR News and CSIR Samachar, some of the important jobs undertaken for printing during 2007-08 are as follows:


*IT Books:* “C Adventure”; “C++ For Beginners”; and “Build Your Web Home” - all in Bangla.
Annual Report and Other Publication: NISCAIR

Jobs undertaken for CSIR Hq/Labs

CSIR Hq: CSIR Annual Report 2005-06 (English & Hindi); CSIR Profile-Biology and Biotecnology; HRDC Ghaziabad Training Calendar; and Model Question Papers

CSIR Labs: Current Literature on Science of Science (6 issues), CSMCRI Monograph on Marine Algae, TKDL Arogya Health Exhibition posters, APAR forms for CSIR labs, and Newsletters of CEERI, CSIO and CBRI.

Jobs undertaken for Government Organizations

Pharmacopoeia Commission, Ghaziabad: Pharmacopoeia of India 2007 (three volumes with 2200 pages, hard bound).

Department of AYUSH: Siddha Pharmacopoeia; Ayurveda and Its Scientific Aspects; and Unani Pharmacopoeia.

Morarji Desai National Institute of Yoga: Brochure/folder/poster, Illustrative 4-colour Yoga therapy Series (Arthritis, Back and Neck Pain, Diabetes Mellitus,
Cardiovascular Diseases, Obesity), and Proceedings of National Seminar on Yoga.

**Rashtriya Ayurvedic Vidyapeeth** : Information Brochure (English & Hindi).

**Jansankhya Sthirata Kosh** : Information Brochure (English & Hindi) and Posters.

**India Meteorological Department** : *Mausam*, a quarterly journal.

**Central Pollution Control Board (CPCB)** : Annual Report 2005-06; CPCB Newsletters; CPCB Highlights 2006 (English & Hindi); Status of Ground Water Quality in India-Part I; Status of Paracetamol Manufacturing Industry; CPCB Parivesh (Cadmium); Comprehensive Industry Document on Sponge Iron; Study of Environmental Problems (Alwar and Gurgaon Districts); Environmental Issues and Status of Marine National Park of Kutch; Water Quality Criteria and Goals; Status of Sewage and Sewage Treatment Plants in Delhi; and Environmental Issues of Hill States.

**SAARC Documentation Centre** : Newsletter, Brochure, Training Programme, and Information booklets.

**Department of Ocean Development** : NCAOR 21st Antarctic Expedition Reports, and *The Story of Antarctica*.

**Department of Scientific & Industrial Research** : Annual Report 2007-08 (English and Hindi).