Table-7.1

Grants-in-Aid to ISI

	BE 2005-06
Plan	Rs.15.05 cror
Non-Plan	Rs.41.53 cror
Total	Rs.56.58 cror



Shri Pranab Mukherjee, Hon'ble Defence Minister, Government of India attending the ISI Council Meeting for the first time on 29th October, 2004



Prof. M.G.K. Menon, FRS, the President of the Indian Statistical Institute inaugurated the "Soft Computing Centre – A National Facility" at the Institute Headquarters in Kolkata on 22nd October, 2005

the written tests, and were called for interviews. Based on the performance in the written tests, interview and the academic records, 195 candidates were offered admission to various courses during the academic session under review. The annual examinations for all the regular courses were held during May 2005. The 2005-2006 academic session commenced on 18th July, 2005.

represent International Statistical Institute, Indian Statistical Institute and the Govt. of India. Professor P.C. Mahalanobis was the Chairman of the Board of Directors since its inception in 1950 until his death in 1972. Since then, National Professor C.R. Rao, F.R.S., has been the Chairman of the Board. The Centre provides training in Theoretical and Applied Statistics at various levels to selected participants from countries in the Middle-East, South and South-East Asia, the Far East and the Commonwealth countries in Africa, sponsored by respective Governments. The major training programme of the Centre is a 10-month regular course. In addition, special courses of varying duration are also organised. This year, in its 59th term, 19 trainees from Srilanka (4), Myanmar (7), Tonga (1), Ivory Coast (1), Indonesia (1), Gambia (1), Bhutan (1), Thailand (1) and Bangladesh (2) joined the course. The trainees received "Statistical Training Diploma" in March 2006 after successful completion of the ISEC Regular course. Besides regular courses, ISEC conducts Special courses of various duration on different subjects. During the year, a trainee from Gambia underwent a special course on "Household Poverty Survey and

The research activities of the Institute are grouped into the following Divisions:

Theoretical Statistics and Mathematics; Applied Statistics; Physics and Earth Sciences; Computer and Communication Sciences; Biological Sciences; Social Sciences; Statistical Quality Control & Operations Research; and Library, Documentation & Information Sciences. In addition, the Computer

to industries and applied research in the areas of SQC & OR. The Division has been in the

Associateship in Documentation & Information Science; Research Fellowships in Statistics, Mathematics, Economics, Computer & Communication Sciences, Physics and Applied Mathematics, Demography, Geology, Sociology, Psychology; Human Genetics and Library and Information Science. A total of 8082 candidates finally appeared for admission tests and a total of 593 candidates qualified in

International Statistical Education Centre (ISEC) 7.5 The ISEC, which was opened in 1950, is operated jointly by the International Statistical Institute

and the Indian Statistical Institute, under the auspices of UNESCO and the Government of India. The Centre, as an associated body of the Institute, functions under a joint Board of Directors. The Directors

& Statistical Services Centre (CSSC) has the responsibility of the management of the in-house computer system of the Institute and providing computing and statistical services to scientific workers. A brief account of the research activities done by different units of each Division of the Institute during the year

Statistical Quality Control and Operations Research

7.7 The SQC and OR division set up in 1953, now operates through the 10 units located at Bangalore, Baroda, Kolkatta (2 units), Hyderabad, New Delhi, Mumbai, Coimbatore, Chennai, Pune. Since its inception, the division has been very active in dissemination of statistical knowledge

The Division also offers a specialist development programme (SDP) to provide

Analysis".

Research

are highlighted below:

contributions have

7.6

made the Institute a permanent member of "Quality Council of India".

the Quality movement in India for over five decades and its significant

conducting a Two year Post graduate programme(M.Tech) in Quality Reliability and Operation Research since 1989 onwards.

Library, Documentation and Information Sciences

careers in industry through on the job training and guided development. The Division has been

7.8 The Institute maintains a Central Research Library at Kolkata with a holding of above 2 lakhs

Central Library

(a)

- books and bound periodicals. It has a good collection of microfiches, microfilms and photofilms. It renders regular documentation service to the Institute Scientists. It also has a well equipped Reprography and Photography Unit with the latest facilities for photo copying. The reading rooms of the Library can seat about 200 readers. The services of the Library are extended to bonafide students, scholars and academic staff members of educational and scientific Institutions of the city and its neighbouring regions.
- scholars and academic staff members of educational and scientific Institutions of the city and its neighbouring regions.

 7.9 The Library maintains contacts with research Libraries of the country through inter-library loan transactions. The Library also has an excellent collection of rare and out of print books, and official reports of various governments and international agencies and Russian language publications. To
- transactions. The Library also has an excellent collection of rare and out of print books, and official reports of various governments and international agencies and Russian language publications. To provide information support and increase the efficiency of library services, the Central Library at Kolkata has initiated the process of providing computerized library services. Apart from the Central Library at Kolkata, the libraries at Delhi and Bangalore also offer similar services. The National Board of Higher Mathematics, Department of Atomic Energy, Govt. of India has recognised the Delhi Centre Library as the Regional Library to serve the Northern Region.

During April 2005 September 2005, the library accessioned 260 books out of which 211 were

publication exchange programme of 'Sankhya- the Indian Journal of Statistics' through which the library got 99 titles during the period. More than 35 journal titles were received on complimentary basis. The library received and processed more than 2500 loose issues of journals. It classified and catalogued 406 new books and filed 2500 computer printed catalogue cards. It also processed 150 titles on government reports/data-books etc. Thus the total collection of the library stands at around 3,07,385. The library has a good collection of electronic resources on different media and has access to several online journals/databases. During the year under report, the library has added 8 CDs & floppies containing books. Thus, the total collection of CDs has risen to 761. The library has provided online access to about 350 full-text journals and online databases like MathSciNet, EconLit, Science Direct, Springer Link,

purchased and 49 books were received on complimentary basis. The Library also accessioned 750 bound volumes of journals. It placed order to 474 scholarly journal titles in print. It maintains the

(b) Documentation Research and Training Centre

IEL Online of the IEEE/IEE publications, Current Index to Statistics (CIS) on Web.

7.11 The Study of various methods of knowledge representation, such as semantic nets, frames and predicate calculus etc.; The application of modern scientific management techniques to the planning and management of information system, centers and services; The Study of Internet Technology and its Applications; The development of bibliometric and scientometric measures for evaluating the use of Library and information services and scientific output respectively; The development of guidelines and software for Library house keeping operations, such as, circulation control service and acquisition control.

Computer and Statistical Services Centre (CSSC)

400 server and 55 PCs. BMDP, NAG, SAS, IMSL, SHAZAM software are available on VAX 8650. SAS and MATLAB-Base, and Mathematica. E-mail, Internet and Fax facilities of the Institute are maintained by the Centre. Statistical and computational consultancy services are also provided by CSSC. The staff members of CSSC also served as faculty in various courses of the Institute and guided projects carried

user-students, research scholars and scientific workers with the inhouse computer system consisting of SUN Enterprise 3000 Server, Six SUN ULTRA 30 workstations, DEC Alpha 4100 server and IBM AS-

The centre manages the central computing facility of the Institute at Calcutta. It serves about 600

out by students. They also conducted research in the areas of Database and knowledge base, Image Processing, Computational geometry, Data Mining, VLSI and Cryptology. **Externally Funded Projects**

Science and Technology (DST); Indian Space Research Organisation (ISRO); Council of Scientific and Industrial Research (CSIR); SUTECH; Indian National Science Academy (INSA); The INSEAD, France; DST-NSF; IRHPA; Zilla Saksharata Samiti; World Bank; The Ministry of Environment and Forestry, Govt. of India; Dept. of Biotechnology; Indian Council of Medical Research (ICMR); Fogarty International Centre, NIH, USA; International Rice Research Institute; University of Western Sydney, Australia; Indo-French Centre for the Promotion of Advanced Research (IFCPAR); Board of Research in Nuclear Science, Dept. of Atomic Energy; Robert Bosch India Limited; ACNielsen ORG-Marg Pvt. Ltd.; TMDC; Tata Iron and Steel Company (TISCO); Khadim Chain Stores Pvt. Ltd.; Multi Commodity Exchange Ltd.; Durgapur Steel Plant; DIC of India Limited; Techna Institute; Tala Hydrolectric Project Authority, Bhutan; Dum Dum Ordanance Factory; Dum Dum Valves & Bearings (P) Ltd.; East India

Apart from theoretical and experimental plan research, the Institute also undertook about 90 externally funded projects from different Government and non-Government organisations like Dept. of

Pharmaceuticlas Ltd.; SNPL, Nepal; Usha Martin Ltd.; Videsh Sanchar Nigam Limited (VSNL); HPCL, Coimbatore; Crompton Greaves Ltd.; ITC Ltd.; Reliance Infocom Ltd.; Rajasthan Electronics and Instruments Ltd., Jaipur; India Software Group, New Delhi; HSBC, Mumbai; MICI; SAPCO; Ashok Leyland; Bharat Heavy Electricals Limited (BHEL), Bhopal; Macmillan India Ltd.; J K Tyres;

Seminars, Workshops, Conferences, Symposiums Etc. Organised

Iran Khodro Company; Larsen and Toubro Ltd. (L&T), Mysore etc.

7.14 themes.

Publications

online submission. The following issues were published during April 2005 to March 2006:

: Volume 66, Part 2

(i)

The internationally renowned journal, Sankhya, began publication under the editorship of Prof. 7.15 P.C. Mahalanobis in 1933. From 2003, Sankhya is published in one combined series, four times a year in February, May, August and November under ISSN 0972-7671. Recent issues of the journal are available

on the website http://sankhya.isical.ac.in. The website also has other features such as searching and

About 115 seminars and workshops were conducted by the ISI during 2005-06 on statistical

Annual Report 2005-06

May, 2005

Scientific Papers and Publications

7.16 During the year about 205 scientific papers were published and about 150 papers were accepted for publication in different scientific journals of national and international importance.

under cultural exchange programmes to attend international seminars and conferences. Most of them presented scientific papers and delivered lectures in those seminars and conferences. Countries visited by ISI faculty members were France, Canada, Singapore, Norway, Thailand, USA, Iran, Bonn, UK, Australia, Italy, Russia, Switzerland, Germany, South Korea, Japan, China, Taiwan, Belgium, Spain,

About sixty scientists of the Institute visited a number of foreign countries either on invitation or

: Volume 67, Part 1 (scheduled)

: Volume 66. Part 3

: Volume 66, Part 4

Scientific Assignments Abroad

August, 2005

November, 2005

February, 2006

(ii)

(iii)

(iv)

Visiting Scientists

7.18 About fifty distinguished scientists from Canada, U.S.A., Japan, U.K., Hong Kong, Belgium, Australia, The Netherlands, Hungary, Finland and India visited the Institute to attend various Workshops, Conferences, Seminars etc. and to participate in collaborative research, teaching and other

Netherlands, Israel, Brazil, Hong Kong, Poland, Finland, Sweden etc.

Recognition to ISI Scientists

scientific activities of the Institute.

- 7.19 Several faculty members received laurels in the forms of Awards and Fellowships from
- members were invited by national and international Institute/bodies to act as chairman, member, chief editor, editor in their several committees/editorial board etc. Among those, some of the most notable recognitions earned by the faculty members are indicated below:

 Professor Probal Chaudhury has been elected Fellow of the Institute of Mathematical

organisations of national and international importance like ISCA, IEEE, INSA, etc. Several faculty members served as Visiting Professors in various universities in US and Europe; Indian Council of Social Sciences Research (ICSSR); Indian National Science Academy etc. Besides, many faculty

Birla Science Centre and Shanti Swarup Bhatnagar Prize for Mathematical Sciences by CSIR.
Professor B.B. Chaudhuri received Ram Lal Wadhwa Gold Medal from Institute of Electronics & Telecom Engineering for his contribution in the field of Digital Decement.

Statistics. He was awarded B.M. Birla Science Prize for Mathematical Sciences by B.M.

- Electronics & Telecom Engineering for his contribution in the field of Digital Document Processing.
- Shri Mahesh Chinnagiri received the 1st Runner-up Award for his research paper titled "Nesting Six Sigma and Lean in Project Management" at the International Project Management Leadership Conference, Bangalore organised by QAI.
- Annual Report 2005-06