

63. Mohanji, P., CALTS, Hyderabad, March 5, 1998, *Computer Vision and Pattern Recognition Unit, Calcutta*.
64. Mookerjee, Dilip, Boston University, USA, August 23 - 29, 1997, *Planning Unit, Delhi*.
65. Maciejnski, A., University of Hannover, Germany, December 22 - 30, 1997, *Physics and Applied Mathematics Unit, Calcutta*.
66. Mukherji, Rahul, Indian Institute of Management, February 11, *Stat-Math Unit, Delhi*.
67. Mukherjee, Kanchan, National University of Singapore, December 08 - 31, 1997, *Stat-Math Unit, Calcutta*.
68. Mukherjee, R., IIM, Joka, May 05 - December 31, 1997, *Stat-Math Unit, Calcutta*.
69. Mukherjee, Amar, Department of Computer Science, University of Central Florida, USA, July 21 - August 10, 1997, *Advanced Computing and Microelectronics Unit, Calcutta*.
70. Mukhopadhyay, P.K., Head & Principal Scientist, Nutrition Unit, Central Institute for Freshwater Aquaculture Kausalyaganj, Bhubaneswar, January 27, 1998, *Biometry Unit, Calcutta*.
71. Munshi, Surendra, Professor of Sociology, Indian Institute of Management, Calcutta, April, 1997, *Sociological Research Unit, Calcutta*.
72. Murthy, B.K., DoE, New Delhi, December 12, 1997, *Computer Vision and Pattern Recognition Unit, Calcutta*.
73. Muruganandam, V., University of Pondichery, Pondichery, May 19 - June 4, 1997, *Stat-Math Unit, Bangalore*.
74. Nagaraja, H.N., Ohio State University, June 27, 1997, *Stat-Math Unit, Bangalore*.
75. Naolekar, A.C., I.S.I., July, 1997 - March, 1998, *Stat-Math Unit, Calcutta*.
76. Nandi, A., Dept. of Electronics & Electrical Engineering, University of Strathclyde, U.K., January 19, 1998, *Machine Intelligence Unit, Calcutta*.
77. Novas, Fernando E., Senior Scientist of National Museum of Buenos Aires, Argentina, November 21 - 29, 1997, *Geological Studies Unit, Calcutta*.
78. Pal, Anup Kumar, ISI, August, 1996 - March 31, 1997, *Stat-Math Unit, Delhi*.
79. Pal, Nabendu, University of S.W. Louisiana, May 26 - July 26, 1997, *Stat-Math Unit, Calcutta*.
80. Paranjape, Kapil H., Institute of Mathematical Sciences, Chennai, June 7-13, *Stat-Math Unit, Bangalore*.
81. Pittman, J.L., Pennsylvania State University, U.S.A., January 14, 1998 - March 23, 1998, *Machine Intelligence Unit, Calcutta*.
82. Raghavan, K.S., Head, Dept. of Library and Information Science, University of Madras, Chennai, October 6 - December 5, 1997, *Documentation Research and Training Centre, Bangalore*.
83. Rajopadhye, Sanjay, IRISA, France, August 08 - 17, 1997, *Advanced Computing and Microelectronics Unit, Calcutta*.
84. Rajput, B.S., University of Tennessee, USA, January 12 - 21, 1998, *Stat-Math Unit, Bangalore*.

85. Rao, C.R., FRS Eberly Professor of Statistics and Director of the Center for Multivariate Analysis, Pennsylvania State University, February 23, 1998, *Stat-Math Unit, Bangalore*.
86. Rao, Peri Vaskara, Tokyo University of Foreign Studies, Japan, February 12-28, 1998, *Computer Vision and Pattern Recognition Unit, Calcutta*.
87. Ratnakumar, P.K., NBHM Fellow, *Stat-Math Unit, Bangalore*.
88. Ray, Sibabrata, University of Michigan, Dearborn, USA, July 14, 1997, *Advanced Computing and Microelectronics Unit, Calcutta*.
89. Ray, S., Dept. of Computer Science, Monash University, Australia, November 03, 1997 - February 20, 1998, *Machine Intelligence Unit, Calcutta*.
90. Ray, Debraj, Boston University, USA, January 17 - March 22, 1998, *Planning Unit, Delhi*.
91. Reddy, N., Telugu University, March, 1998, *Computer Vision and Pattern Recognition Unit, Calcutta*.
92. Rodenacker, K. GSF, Germany, January 5 - 15, 1998, *Computer Vision and Pattern Recognition Unit, Calcutta*.
93. Roy, Amitabha, Department of Computer Science, University of Oregon, USA, September 23, 1997, *Advanced Computing and Microelectronics Unit, Calcutta*.
94. Roy, S., Monash University, Australia, September, 1997, *Computer Vision and Pattern Recognition Unit, Calcutta*.
95. Roy, T., Saha Institute of Nuclear Physics, Calcutta, January 21, 1998, *Physics and Applied Mathematics Unit, Calcutta*.
96. Sampson, Scott, Associate Professor of College of Osteopathic Medicine, New York, U.S.A. July 24 - August 2, 1997, *Geological Studies Unit, Calcutta*.
97. Sarkar, Anish, ISI, Calcutta, January 15 - February 28, 1998, *Stat-Math Unit, Delhi*.
98. Sarkar, Anish, I.S.I., April - December, 1997, *Stat-Math Unit, Calcutta*.
99. Sarkar, Sabadeh, IIM, Calcutta, June, 1997 - May, 1998, *Applied Statistics Unit*.
100. Sarkar, Sandeep, University of South Florida, February 2, 1998, *Computer Vision and Pattern Recognition Unit, Calcutta*.
101. Sarkar, Pabitra, Chairman, W.B. State Council of Higher Education, March 4, 1998, *Computer Vision and Pattern Recognition Unit, Calcutta*.
102. Seetharama, S., Retired Professor DRTC, March 9 - 17, 1998, *Documentation Research and Training Centre, Bangalore*.
103. Sen, Malay, University of North Bengal, W.B., September - October 1997, *Stat-Math Unit, Calcutta*.
104. Sengupta, Debashis, Centre for Atmospheric and Oceanographic Sciences, IISc, April 24, 1997, *Stat-Math Unit, Bangalore*.
105. Shah, K.R., University of Waterloo, February 3 - March 20, 1997, *Stat-Math Unit, Delhi*.

106. Shigeyoshi, Kitazawa, Department of Computer Science, Faculty of Information, Shizuoka University, Japan, September 05 - 10, 1997, *Electronics Unit, Calcutta.*
107. Sin, Peter, University of Florida, Gainesville, June 06 - 19, 1997, *Stat-Math Unit, Bangalore.*
108. Singh, U.N., CALTS, Hyderabad, May 29, 1997, *Computer Vision and Pattern Recognition Unit, Calcutta.*
109. Sinha, Sagnik, Jadavpur University, February, 1998, *SQC and OR Unit, Delhi.*
110. Sinha, Kishore, Birsra Agricultural University, Ranchi, April, 01 - 30, 1997, *Stat-Math Unit, Calcutta.*
111. Sofi, M.A., University of Kashmir, February, 19, 1998, *Stat-Math Unit, Bangalore.*
112. Srinivasan, Padmini, Director, School of Library & Information Science, University of Iowa, *Documentation Research and Training Centre, Bangalore.*
113. Sunder, V.S., Institute of Mathematical Sciences, Chennai, April 15 - 25, 1997, *Stat-Math Unit, Bangalore.*
114. Sur-Kolay, Susmita, Reader, Jadavpur University, April 01 - July 31, 1997, *Advanced Computing and Microelectronics Unit, Calcutta.*
115. Taguchi, Shin, President American Institute of Quality Engineering, July 16, 1997, *Computer Vision and Pattern Recognition Unit, Calcutta.*
116. Taguchi, Shin, President American Supplier Institute, Michigan, USA, July 17 - 18, 1997, *SQC and OR Unit, Calcutta.*
117. Taguchi, Shin, President American Supplier Institute, Michigan, USA, July 8 - 14, 1997, *SQC and OR Unit, Bangalore.*
118. Truini, P., University of Geneva, Italy, August 27, 1997, *Physics and Applied Mathematics Unit, Calcutta.*
119. Verma, D.N., Retd. Professor, TIFR, April 14 - May 5, 1997, *Stat-Math Unit, Delhi.*
120. Vidyasagar, M., CAIR, February 26, 1998, *Stat-Math Unit, Bangalore.*
121. Weiss, W., Israel, February, 1998, *SQC and OR Unit, Delhi.*
122. Wimar, Larry, Associate Professor of University of Ohio, July 24 - August 2, 1997, *Geological Studies Unit, Calcutta.*
123. Yuwin, September 15, 1997, *SQC and OR Unit, Chennai.*

8. HONOURS, AWARDS AND SPECIAL ASSIGNMENTS

Ghosh, J.K. (Stat-Math Unit, Calcutta) has been awarded Mahalanobis Birth Centenary Gold medal for 1998 by Indian Science Congress.

Tripathi, T.P. (Stat-Math Unit, Calcutta) was elected as the President, Statistics and Mathematics Section of the XXI Indian Social Science Congress held during December 1-6, 1997 at Tamil University Thanjavur, Tamilnadu, India.

Bhatia, R. (Stat-Math Unit, Delhi) served as a member of (i) The National Board for Higher Mathematics, (ii) Board of Directors of the International Linear Algebra Society and (iii) as an editor of the Journals Linear Algebra and Its Applications, and the Society for Industrial and Applied Mathematics Journal on Matrix Analysis and Its Applications.

Prakasa Rao, B.L.S. (Stat-Math Unit, Delhi) appointed as a member of (i) The Editorial Board of the Journal Statistical Inference for Stochastic Processes to be published by Kluwer, Dordrecht, (ii) UGC Panel on Statistics for the period 1997-2000 and (iii) CSIR Emeritus Scientist and one time grant Research committee.

Sinha, K.B. (Stat-Math Unit, Delhi) elected as a member of the Editorial Board of the Journals (i) Infinite Dimensional Analysis, Quantum Probability and Related Topics, World Scientific, (ii) Indian Journal of Pure and Applied Mathematics, INSA, New Delhi.

Bagechi, Bhaskar (Stat-Math Unit, Bangalore) has been elected a Fellow of the Indian Academy of Sciences, Bangalore.

Bhat, B.V. Rajarama (Stat-Math Unit, Bangalore) received the INSA medal for Young Scientists for the year 1997 at the Annual General meeting of the Indian National Science Academy on October 7, 1997 at New Delhi. He has also been selected as an Associate of the Indian Academy of Sciences, Bangalore during June 6, 1997 - December 31, 2001.

Delampady, Mohan (Stat-Math Unit, Bangalore) has won the C.V. Raman award for young scientists (in Mathematical Sciences) given by the Government of Karnataka for the year 1997.

Mukhopadhyay, P. (Applied Statistics Unit) has been elected as a member of the International Statistical Institute, Netherlands with effect from September, 1997. He has been invited to attend the 5th International Conference on Teaching of Statistics (ICOTS-5), Singapore, June, 1998. He also has been assigned the job of writing a course in statistics and operations research by the Indira Gandhi National Open University, New Delhi.

SenGupta, Ashis (Applied Statistics Unit) has been elected as Chairman of (i) Invited lectures session on Recent Advances in Reliability and Life Testing, International Conference on Statistical Inference, Combinatorics and Related Areas, organised by Forum for Interdisciplinary Mathematics, USA at Banaras Hindu University, December, 1997, (ii) Invited lectures session on Multivariate Analysis, International Conference on Recent advances in Statistics and Probability, organised by ISI and Bernoulli Society ISI, Calcutta, January, 1998, (iii) Invited lectures session on Non-Parametric Inference, Annual Conference of ISPS and National Seminar on Probability and Analysis, Sambalpur University, December, 1997 and (iv) Organizer, Invited session on Multivariate Analysis, International Conference on Recent Advances in Statistics and Probability, ISI, Calcutta, December 1997 - January, 1998. He also has been re-elected as a member of the Executive Council of the Indian Society for Probability and Statistics.

Chaudhuri, B.B. (Computer Vision and Pattern Recognition Unit) has been elected fellow of International Association for Pattern Recognition. He also served as a member of (i) Program committee of the International Conference on Computer Vision (ICCV'98), IIT Bombay, January 3-8, 1998, (ii) Program committee of the 5th International Conference on Document Analysis and Recognition, Bangalore, India and (iii) General Chair, International Conference on Computational Linguistics, Speech, and Document Processing, ISI, Calcutta, February 18-20, 1998.

Bhattacharya, Bhargab B. (Advanced Computing and Microelectronics Unit) has served as a member of (i) the Program Committee of the 11th International Conference on VLSI Design, 1998, (ii) the Program Committee of the Fourth International Conference on High Performance Computing, 1997, (iii) the program committee of the International Conference on Computers and Devices for Communication (CODEC), January, 1998 and (iv) the Program Committee of the International Conference on Advanced Computing ADCOMP'97.

Sinha, Bhabani P. (Advanced Computing and Microelectronics Unit) has been elected a Fellow of the National Academy of Sciences, India. He has also served as (i) the Vice Chairman (Asia) of the Program Committee of the Fourth International Conference on High Performance Computing, 1997 and (ii) a member of the program committee of the International Conference on Computers and Devices for Communication (CODEC), January, 1998. He also has been acting as a member of the program committee of the International Conference on Information Technology.

Ghosh, A. (Machine Intelligence Unit) has been selected as an Associate of the Indian Academy of Sciences.

Murthy, C.A. (Machine Intelligence Unit) has received the Computer Engineering Division Medal of the Institution of Engineers (India) for 1996-97.

Pal, N.R. (Machine Intelligence Unit) has been selected as a member of the governing board of the Asian Pacific Neural Network Assembly (APNNA). He has been continuing as an Associate Editor of International Journal Approximate Reasoning and IEEE Trans. on Fuzzy Systems. He is guest editing a special issue on soft computing for pattern recognition for the journal Fuzzy Sets and Systems. He has served the program committee of different international conferences including IEEE 1998 International Conference Fuzzy Systems, Fuzz-IEEE 1998, Alaska; Asian Fuzzy Systems Symposium, AFSS'98, Korea; International Symposium on Auto Tech. Automation, 1998, Germany.

Pal, S.K. (Machine Intelligence Unit) has received the 1997 Ram Lal Wadhwa Gold Medal from IETE and appointed an IEEE (USA) Computer Society Distinguished Speaker for Asia Pacific Region. He is also selected as Category B speaker under the Theoretical Physics Seminar Circuit Programme of S.N. Bose National Centre for Basic Science for 1998-2000. He is appointed a guest editor of a special issue on Soft Computing for the journal Fundamental Informaticae. He has been continuing to serve as (i) an IEEE (USA) Computer Society Distinguished Speaker for Asia Pacific Region. He has also served as (i) an Associate Editor of the journals - IEEE Trans. on Neural Networks, Pattern Recognition Letters, Neurocomputing, Far-East Journal of Mathematical Sciences, Information Sciences, Int. Journal Knowledge Based Intelligent & Engineering Systems, and Applied Intelligence, (ii) an Executive Advisory Editor of IEEE Trans. on Fuzzy Systems and Int. Journal of Approximate Reasoning and (iii) a member of the Reviewing Boards of Mathematical Reviews (American Mathematical Society) and IEEE Computer, (iv) a member of the Societal Committee of the Indian National Science Academy and the Indian National Academy of Engineering, Planning and Programming Committee of Birla Industrial and Technology Museum (BITM), India, the Engineering Sciences Research Committee of the Council of Scientific & Industrial Research (CSIR), Int. Liaison Chair of the IEEE Int. Conf on Neural Networks (ICNN'97), Houston, (v) a member of the Program/Advisory Committee including IEEE Int. Conf. on Fuzzy Systems (FUZZ-IEEE '97), Barcelona, (vi) Conf. on Neural Networks and Fuzzy Systems, Anna Univ., (vii) ICONIP/ANZIIS/ANNES'97 Conference, (viii) Int. Conf. on Computer Vision (ICCV'98), IIT Bombay, (ix) Int. Conf. on Computer and Devices for Communication (CODEC), Calcutta, (x) Computational Engineering in Systems Applications, (CESA'98, IEEE-IMACS Multiconference) and (xi) Int. Symposium on Neural Computing (NC'98).

Sarbadhikari, S.N. (Machine Intelligence Unit) has been included among the biographies of Marquis Who's Who in the World, 15th edition, 1998.

Dandapat, B.S. (Physics and Applied Mathematics Unit) has been elected as a member of the Board of Editorial, International Journal of Applied Mechanics & Engineering Published from Poland.

Mandal, B.N. (Physics and Applied Mathematics Unit) has been elected as a member of (i) the Board of Editors, International Journal of Mathematics and Mathematical Sciences, USA. (ii) the Board of Editors, Bulletin of Calcutta Mathematical Society, Review Bulletin of Calcutta Mathematical Society and (iii) Vice-President, Calcutta Mathematical Society.

Chakravarty, Satya R. (Economic Research Unit) has been awarded the Mahalanobis Memorial Award, for his outstanding contribution to Quantitative Economics by the Indian Economic Society for the year 1994. He delivered the Mahalanobis Memorial Lecture on the occasion of receiving the Mahalanobis Memorial Awards in Mangalore University on March 28, 1998.

Coondoo, Dipankor (Economic Research Unit) has been awarded Professor Panchanan Chakravarty Memorial Award for Distinguished Economist 1997-98 by Bangva Arthaniti Parishad, West Bengal. He has also been nominated an external member of the higher Studies Committee for Economics of Rabindra Bharati University, Calcutta.

Mazumdar, Krishna (Economic Research Unit) was appointed as a member of the editorial board of the journal Social Indicators Research, Kluwer Academic Publishers.

Bandyopadhyay, Debaprasad (Linguistic Research Unit) was nominated as guest editor of a special volume on Poststructural Linguistics of Linguistic Today.

Choudhry, Amitav (Linguistic Research Unit) was nominated as guest editor of a special volume on Poststructural Linguistics of Linguistic Today.

Bandyopadhyay, Suraj (Sociological Research Unit) has been acted as a member of (i) Strategic Planning Cell, Department of Health and Family Welfare, Government of West Bengal. (ii) Advisory Committee, Eastern Regional Centre of the Indian Council of Social Science Research (ICCSR), Calcutta. (iii) Advisory Committee, Agro-Economic Research Centre, Visva-Bharati University, Santiniketan. and (iv) Ad-hoc Committee for the West Bengal Board of Primary Education, Government of West Bengal. He has also been acting as a Chairman, Academic Council, Agro-Economic Research Centre, Visva-Bharati University, Santiniketan and Social Science Area Editor, Everyman's Science, Journal of the Indian Science Congress Association, Calcutta. He has also been elected as Expert Member of Netaji Subhas Open University, Calcutta.

Chakrabarti, Prafulla (Sociological Research Unit) has functioned as a member of the Expert Committee, Encyclopaedia, Asiatica, Vol. 1, Land and People

Dasgupta, Atis (Sociological Research Unit) has been elected as a member of (i) The Advisory Committee of the State Archives of Government of West Bengal, (ii) the Advisory Committee of the State Archaeology, Government of West Bengal, (iii) The Advisory Committee of the District Gazetteers, Government of West Bengal, (iv) The Governing Body of Netaji Institute of Asian Studies, Government of West Bengal, (v) The Governing Body of the Calcutta Museum (recently set up with Shri Jyoti Basu, the Hon'ble Chief Minister of West Bengal as the President), (vi) the Academic Committee of the Asiatic Society, (vii) The State-level Committee of the Birth Centenary of Netaji Subhas Chandra Bose's with the Hon'ble Governor as the Chairman and the Hon'ble Chief Minister as the Executive Chairman. He was also selected by The Governor to be a member of the Working Committee constituted by the above State-level Committee, (viii) The Steering Committee set up by the Government of West Bengal for Netaji Subhas Chandra Bose Open University, (ix) the State-level Committee for publication on the occasion of 50 years of Independence, (x) Advisory Committee and a working group for collection and preservation of important source materials etc. from Police records of the D.D. & the Spl. Br. of Cal. Police and the I.B. and CID, West Bengal, (xi) the State-level Committee on Heritage Buildings of West Bengal and (xii) the Expert Committee on the Town Hall of Calcutta.

9. SCIENTIFIC TOURS AND ASSIGNMENTS ABROAD

- Bana, R. (Stat-Math Unit, Calcutta) visited the United Nations University/International Institute of Software Technology at macau during May 15 - August 15, 1997 to work with Prof. Zhou Chaochen for DcToRS (Design Techniques for Real-time Systems). He wrote with Prof. Zhou Chaochen "Neighbour Logics : NL and NL*" UNU/IST Report No.120, August, 1997.
- Choudhury, P. (Stat-Math Unit, Calcutta) visited Faculty at the Statistics Dept., University of North Carolina at Chapel Hill, USA during January 1, 1997 - June 30, 1997 for teaching and carrying out collaborative research with the faculty.
- Choudhury, P. (Stat-Math Unit, Calcutta) visited at the Dept. of Mathematical Sciences, University of Oulu, Oulu, Finland during August 15-30, 1997. His purpose of the visit was to serve as an external examiner ("opponent") for a Ph.D. defense and to give a series of lectures.
- Ghosh, J.K. (Stat-Math Unit, Calcutta) visited Istanbul to attend conference organised by ISBA and ISI. He was also Professor at Purdue University during September - December, 1997.
- Rajcev, B. (Stat-Math Unit, Calcutta) visited the Laboratoire de Probabilités et Paris during February 15 - May 10, 1997. He gave three talks.
- Saha, G.M. (Stat-Math Unit, Calcutta) visited the Department of Mathematical Sciences, University of Akron, Ohio, as Visiting Professor during August 25 - December 31, 1997 and taught two courses to graduate students. He also did collaborative research work in experimental designs.
- Sinha, B.K. (Stat-Math Unit, Calcutta) attended International Conference at Portland, as an Invited Speaker and visited Department of Statistics, University of South Alabama during May - June, 1997. He also visited (i) the Department of Statistics, University of Tampere, Finland and initiated research in sample survey applications in forestry during October, 1997. (ii) Benaras Hindu University and attended an International Conference as an invited speaker during December, 1997.
- Bapat, R.B. (Stat-Math Unit, Delhi) visited University of Padova, Padova, Italy during July 2-25, 1997 and gave a series of seminars.
- Bhatia, R. (Stat-Math Unit, Delhi) visited the Universities of Maribor and Ljubljana in Slovenia during September 21 - October 20, 1997 and the university of Bielefeld in Germany during October 21 - November 20, 1997 and continued his research work with colleagues there.
- Dey, Aloke (Stat-Math Unit, Delhi) visited the Department of Mathematical Sciences, The University of Akron, Ohio, USA during January 1997 - May 1997 as a Visiting Professor.
- Kochar, S.C. (Stat-Math Unit, Delhi) visited the Dept. of Statistics and Actuarial Science, University of Waterloo, Canada during May 18 - June 7, 1997 and the Division of Statistics, University of California, Davis, USA during June 18 - August 1, 1997. He gave a colloquium talk and collaborated in research with Prof. J. Lawless, Prof. Frank Samaniego and Prof. Hari Mukherjee. He also gave talks in the Dept. of Mathematical Sciences, McMaster University and in the Dept. of Statistics, Toronto University, Canada.
- Parthasarathy, T. (Stat-Math Unit, Delhi) visited USA during April 20 - May 16, 1997 and University of Illinois at Chicago circle during October 23 - November 6, 1997. He participated in a conference on the Jacobian Conjecture at the University of Rochester and gave couple of talks on Game Theory. He also attended a workshop on Structural Cooperative Games and Stochastic Games.
- Bhat, B.V. Rajarama (Stat-Math Unit, Bangalore) visited the Centro Matematico Vito Volterra, Roma (Italy) during March 1-7, 1998. He gave an invited lecture on "Cocycles of CCR flows" at the conference on

- 'Infinite dimensional analysis and Quantum Probability, Leviso, Tren to (Italy) during February 23-28, 1998 and 'Different pictures of units of E-semigroups' at an informal workshop on Quantum Stochastic Processes.
- Delampady, Mohan (Stat-Math Unit, Bangalore) visited the Department of Statistics, Purdue University for the academic year 1997-98.
- Misra, G. (Stat-Math Unit, Bangalore) visited Texas A & M during August - September, 1997.
- Padmawar, V.R. (Stat-Math Unit, Bangalore) visited the University of Western Australia, Nedlands, Australia and Curtin University of Technology, Western Australia during September - December, 1997.
- Rao, T.S.S.R.K. (Stat-Math Unit, Bangalore) visited the Polish Academy of Sciences for 4 weeks under a nomination from the Indian National Science Academy during September - October, 1997. He gave a talk on (i) Points of weakⁿ-norm continuity on the dual unit ball of the space of operators at the Wrocław University, Math. Department, (ii) Points of weak-norm continuity in the unit ball of space of operators at the Mathematical Institute of the Technical University of Wrocław and (iii) Two geometric properties of the space of Bochner integrable functions at the Institute of Mathematics, Adam Mickiewicz University, Poznan.
- Bose, Mausumi (Applied Statistics Unit) worked as a Visiting Assistant Professor during September 17, 1997 - March 31, 1998 at Dept. of Stat. Ohio State University, Columbus OH, USA. She gave invited talks at Dept. Stat. Northern Illinois University, Ohio, USA during January - February, 1998.
- Chaudhri, Arijit (Applied Statistics Unit) worked as a Visiting Professor in University Nebraska - Lincoln, USA during April - May, 1997. He gave an invited talk in University of Southampton during May, 1997.
- Mukhopadhyay, Parimal (Applied Statistics Unit) visited on invitation the University of Western Australia during July 17 - September 2, 1997.
- SenGupta, Ashis (Applied Statistics Unit) visited University of California, Santa Barbara, USA as Visiting Professor during 1997.
- Chaudhuri, B.B. (Computer Vision and Pattern Recognition Unit) visited GSF - Gesellschaft für Strahlen- und Umweltforschung, Munich, Germany during August 1 - September 15, 1997 to supervise the work of Indo-German collaboration and University of Munich during September 7-8, 1997. He also attended 4th International Conference on Document Analysis and Recognition at Ulm, Germany during August 18-20, 1997.
- Pal, U. (Computer Vision and Pattern Recognition Unit) visited GSF - Gesellschaft für Strahlen- und Umweltforschung, Munich, Germany during July 11, 1997 - January 10, 1998 to work in an Indo-German collaborative project on medical image analysis. He also attended 4th International Conference on Document Analysis and Recognition at Ulm, Germany during August 18-20, 1997.
- Bhattacharya, B.B. (Advanced Computing and Microelectronics Unit) visited the (i) Brunel University, Uxbridge, U.K. on September 22, 1997 and delivered a talk on VLSI testing, (ii) Max Planck Institute of Fault Tolerant Computing, Potsdam University, Germany during September 23-26, 1997 and delivered a talk on Delay testing, (iii) Institute of Computer Science, Albert-Ludwigs University, Freiburg, Germany during September 30 - October 2, 1997 and delivered a talk on BIST for delay faults in logic circuits and (iv) Dept. of Computer Science, Dortmund University, Germany during October 4-5, 1997 for collaborative research.
- Das, Nabanita (Advanced Computing and Microelectronics Unit) visited (i) Department of Mathematik and Informatik, University of Paderborn, Germany during August 12 - October 30, 1997 for collaborative research and delivered seminar lectures on Generalized Shuffle - Exchange interconnection Network and Shuffled - Mesh Interconnection Networks, (ii) Department of Information Systems, University of Siegen, Germany during September 7 - 8, 1997 and delivered a seminar lecture on the Diameter of Shuffled - Mesh Topology, (iii) The Institute fuer Informatik, Tech. Univ. of

- Muenchen, Germany during September 28-29, 1997 and delivered a talk on On the Permutation Admissibility Problem of GSE Network.
- Sur-Kolay, Susmita (Electronics Unit) visited (i) Cadence Design Systems Inc., San Jose, California on April 17, 1997, (ii) Department of Computer Science, Stanford University on April 18, 1997.
- Bandyopadhyay, S. (Machine Intelligence Unit) visited the Los Alamos National Laboratory, Los Alamos, New Mexico, USA during April - September, 1997. She worked on the issues of linkage learning in genetic algorithms. She also delivered a talk titled "Similarity aided linkage learning in GEMGA.
- Basak, J. (Machine Intelligence Unit) worked as a researcher in the Frontier Research Program, Institute of Physical and Chemical Research (RIKEN), Saitama, Japan during February 1997 - January 1998.
- Ghosh, A. (Machine Intelligence Unit) visited Hannan University, Osaka, Japan during September - October, 1997.
- Murthy, C.A. (Machine Intelligence Unit) visited (i) the Dept. of Statistics, Pennsylvania State Univ., Univ. Park, USA during July 1996 - December, 1997 and (ii) the University of Maryland, College Park. He delivered a talk at the Pennsylvania State University. He collaborated with the scientists in the Centre for Multivariate Analysis, Pennsylvania State University.
- Pal, N.R. (Machine Intelligence Unit) visited New Zealand on November, 1997. He chaired a session, gave a invited talk, presented two contributory papers and gave a tutorial lecture on connectionist models for feature analysis and dimensionality reduction at the 4th Int. Conf. on Neural Information Processing, Duneidin, New Zealand, 1997. He also visited and gave seminars at the University of Auckland and The Massey University, New Zealand.
- Pal, S.K. (Machine Intelligence Unit) delivered Tutorial lectures at International Conference on Neural Networks (ICNN97) at Westin Galleria Hotel, Houston, Texas and presented a contributory article. He visited the Dept. of Statistics, Pennsylvania State University, University Park and the Imperial College, London, and delivered invited talks. He also attended an Indo-French Seminar on Symbolic Data Analysis and its Applications during September 23-25, 1997 at University of Paris, Dauphin, France, as a delegate selected by (IFCPAR) and delivered lectures.
- Mazumder, B.S. (Physics and Applied Mathematics Unit) visited (i) Department of Mathematics, Garyounis University, Benghazi, Libya as a Visiting Professor for teaching and Research during May 1996 - July 1997 and (ii) Institute for Wasserbau und Kulturtechnik University of Karlsruhe, Germany during October - December, 1997. He gave a talk on Experiments on measurement of turbulent velocity profiles over gravel-bed surfaces by 2-D Laser Doppler Anemometer (LDA).
- Mazumder, H.P. (Physics and Applied Mathematics Unit) visited (i) Department of Civil Engineering, University of Rome, Italy as a Visiting Professor during October - November 1997 and (ii) Zurich Polytechnique, Zurich, Switzerland during December, 1997. He gave a Seminar.
- Roy, Sisir (Physics and Applied Mathematics Unit) visited (i) Department of Mathematics, University of Palermo, Italy during May 2-29, 1997, (ii) Department of Physics, University of Santander, Spain during June 2-9, 1997 and (iii) Institute of Fundamental Physics & Mathematics, Madrid, Spain during June 10-27, 1997.
- Majumder, P.P. (Anthropology and Human Genetics Unit) delivered an invited lecture (i) in the Lecture series on Network and Evolution of Molecular Information, national Institute of Genetics, Mishima, Japan during May 28-29, 1997, (ii) on Genomic Diversity and affinities in Indian Populations in the Congerence on Human Evolution, Cold Spring Harbor Laboratory, USA during October 4-8, 1997

- and (iii) in the 10th Anniversary Symposium of the International Centre for Genetic Engineering and Biotechnology, Trieste, Italy during November 25-27, 1997.
- Roy, B. (Anthropology and Human Genetics Unit) visited (i) Keio University Medical School, Tokyo, Japan and delivered lecture and (ii) Hiroshima University Medical School, Hiroshima, Japan and delivered lecture.
- Duttgupta, Chandralakha (Biochemistry Unit) visited Dept. of obstetrics and Gynaecology, Albert Einstein College of Medicine, Bronx, New York as a Visiting Assistant Professor during March - May 1997.
- Chakravarty, Satya R. (Economic Research Unit) visited DELTA, Paris, as a Visiting Professor during August 1, 1997 - January 31, 1998.
- Mazumdar, Krishna (Economic Research Unit) visited University of Kebangsaan, Malaysia during September 5-6, 1997 and participated in a Panel discussion on Economic Development.
- Chatterji, Shrojit (Planning Unit, Delhi) visited (i) Bielefeld University during April - May, 1997 and (ii) University of Alicante during June 1997.
- Das, Satya, P. (Planning Unit, Delhi) visited (i) University of Wisconsin - Milwaukee during March - May, 1997 and (ii) Southern Methodist University during April 1997.
- Das, Sanghamitra (Planning Unit, Delhi) visited (i) Yale University, (ii) Rutgers University during June, 1997, and (iii) University of Illinois, USA during July 1997.
- Dsgupta, Dipankar (Planning Unit, Delhi) is visiting Hokkaido University since January 1998.
- Datta, Bhaskar (Planning Unit, Delhi) visited (i) Universite Cergy Pointosis, Paris during May, 1997, (ii) University of Graz during June, 1997 and (iii) GREQAM, Aix au Provence, France during November 24 - December 14, 1997.
- Mutuswamy, Suresh (Planning Unit, Delhi) visited NATO Advanced Study Institute Course on Axiomatic Methods and Resource Allocation at SUNY-Stony Brook, USA during July 21-31, 1997.
- Sen, Arunava (Planning Unit, Delhi) visited (i) Universidad Autonoma de Barcelona during May - June, 1997 and (ii) University of Tel Aviv, Israel during July, 1997.
- Choudhry, Amitav (Linguistic Research Unit) visited (i) the University of newcastle, UK to attend the 1st International Symposium on Bilingualism during April 9-12, 1997 and (ii) York University during April 13-25, 1997 to carry out collaborative research with the Dept. of Language and Linguistic Science, on Language Attitudes of Migrant Groups from the Indian Sub-continent. He presented a paper entitled The adaptability of certain bilingual measurement models in the Indian multilingual context and he also conducted a pilot survey on language maintenance strategies on the Bengali community in Nottingham during April 26 - May 7, 1997.
- Biswas, A.K. (Statistical Quality Control and Operations Research Division, Chennai) visited (i) the University of Twente at Enschede in Netherlands during August 1-15, 1997 and wrote a paper jointly with the Driessen titled K-CORNVES GAMES AND LARGE CORES and (ii) the Catholic University of Nijmegen during August 16-29, 1997 and wrote a paper jointly with Jos Poters, Mark Voorneveld, and T. Parthasarathy on Large Cores and Exactness. He also attended (i) the international conference on game theory at State University of New York at Stony Brook and presented a paper entitled Stability and Large Core for Symmetric games during July 7-11, 1997 and (ii) the Advanced Study Institute Conducted by NATO at SUNY at Stony Brook during July 21-30, 1997.
- Chakraborty, A.K. (Statistical Quality Control and Operations Research Division, Chennai) visited China during September, 1997 and gave a Keynote speech on Solving Engineering and Industrial Quality Problems an Indian Experience in an international Conference on Quality Management and

Economic development. He also visited the Hongkong University of Science and Technology and gave a talk on 'Why there is no warranty tag with a software'.

Mohan, S.R. (Statistical Quality Control and Operations Research Division, Delhi) visited University of Tilburg, Tilburg, Netherlands during August, 1997 under exchange programme of INSA. He attended the International Symposium on Mathematical Programming at Lausanne, Switzerland during August, 1997.

Murthy, G.S.R. (Statistical Quality Control and Operations Research Division, Chennai) visited The University of Maastricht, The Netherlands and carried out Collaborative work with Prof. D.T. Vreeze, Prof. Frank Thuijsman and Dr. S.K. Neogy during August 1-21, 1997. He participated in the 16th International Symposium on mathematical programming held at Lausanne, Switzerland and presented two papers during August 21-29, 1997.

Neogi, S.K. (Statistical Quality Control and Operations Research Division, Delhi) visited University of Limburg, Maastricht, Netherlands during August, 1997 for Collaborative Research Work and he attended the International Symposium on Mathematical Programming at Lausanne, Switzerland during August, 1997.

Rao, I.K. Ravichandra (Documentation Research and Training Centre (DRTC), Bangalore) attended the 6th International Conference on Informetrics and Scientometrics held at Jerusalem during June 16-19, 1997. He presented paper entitled An analysis of Bradford Multipliers and a model to explain law of scattering. He also chaired a Technical Session at the conference.

10. SCIENTIFIC ASSIGNMENTS IN INDIA

- Dutta, A.K.** (Stat-Math Unit, Calcutta) visited the School of Mathematics, Tata Institute of Fundamental Research, Mumbai during June 1 - July 17, 1997. He collaborated with Professor S.M. Bhatnagar of TIFR and delivered a talk on "Aⁿ-fibrations at TIFR on July 15, 1997.
- Ghosh, J.K.** (Stat-Math Unit, Calcutta) attended and gave invited lectures in (a) ISI-Bernoulli Conference in Calcutta, (b) the Tricennial Conference in Calcutta, (c) the Indian Science Congress meeting at Hyderabad. He was also keynote speaker for the annual meeting of Indian Society for Probability and Statistics at Sambalpur and he organised a one-day Satellite Bayesian Conference in Calcutta.
- Rajen, B.** (Stat-Math Unit, Calcutta) was invited participant in a discussion meeting on applications of Statistics & Probability in Science & Engineering during June 12-13, 1997 at NCL, Pune, organised by Dr. P. Chaudhuri (ISI) & Dr. Vivek Rovode (NCL, Pune).
- Rao, T.J.** (Stat-Math Unit, Calcutta) gave a lecture on (i) Sampling in Auditing at the Indian Audit & Accounts Dept. in December, 1997, (ii) Methodology and application of Statistical Sampling to officers of IAAD (W.B., Bihar and Orissa) in February, 1998 and (iii) Ratio of Means or Mean of Ratios or body? at a Seminar organised by Calcutta University, Dept. of Statistics in May 1997.
- Roy, A.K.** (Stat-Math Unit, Calcutta) was invited by Sambalpur University to be a member, in an advisory capacity, of the Mathematics Dept.'s Council and was chaired by invitation a special session on a Topology meeting organised by Calcutta Mathematical Society and referred papers for several Indian journals in Mathematics.
- Bapat, R.B.** (Stat-Math Unit, Delhi) visited Homi Bhabha Centre for Science Education, Mumbai, May 13-23, 1997 as a resource person in training camp for International Mathematics Olympiad and gave an invited talk at the Golden Jubilee Year Conference, Dept. of Statistics, University of Mumbai during December 17-20, 1997.
- Bhatia, R.** (Stat-Math Unit, Delhi) gave a special lecture titled What is a function? to the students attending the training camp for the International Mathematical Olympiad 1997 at the Homi Bhabha Centre for Science Education, Mumbai. He gave a seminar on Differentiation of Matrix Functions at the Tata Institute of Fundamental Research, Mumbai on June 16, 1997 and gave two talks on Fourier Series in the UGC Refresher Course for College Teachers at University of Delhi in June, 1997. He also participated and gave a talk titled Positivity of some matrices in the International Conference on Complex Analysis and Related Areas held at Tata Institute of Fundamental Research, Mumbai, December 29-31, 1997, gave lectures at University of maribor, Slovenia, University of Ljubljana, Slovenia, October 97, University of Bielefeld, Germany, November, 1997.
- Bhatt, A.G.** (Stat-Math Unit, Delhi) was an invited speaker in the session on Stochastic Control Systems in the Conference on Recent Advances in Statistics and Probability held in Calcutta during December 29 - January 1, 1998.
- Bhattacharya, Tilak** (Stat-Math Unit, Delhi) gave a talk in the conference on Function spaces and their applications, Dept. of Mathematics, University of Delhi, December, 1997.
- Devan, I.** (Stat-Math Unit, Delhi) was an invited speaker at the International Symposium for quality and reliability - recent trends in theory and practice, Calcutta University, May, 30 - June 1, 1997 and he also attended the conference on Statistical Methods for Quality and Productivity Improvement - Current Trends held at ISI, Delhi, February 5-6, 1998.
- Karamdakar, R.L.** (Stat-Math Unit, Delhi) was approached by the Centre for Studies in Developing Societies (CSDS, an ICSSR funded institution) to be their statistical consultant for the Opinion Poll they conducted for India Today preceding the 1998 elections. This was a successful experiment as the projections telecast on the very first day of counting in the evening were very close to the final outcome. He was assisted by Prof. Abhay Bhatt, Dr. Arup Pal, Mr. Suresh Muluswamy and Ms. Lakshmi Iyer. He attended conference on 50 Years of Mathematics in Independent India (1947 - 1997) held during November 4-6, 1997 at the Institute of Mathematical Sciences, Chennai and he also attended conference on Recent Advances in Statistics and Probability, Indian Statistical Institute, Calcutta during December 29 - January 1, 1998.
- Kocher, S.C.** (Stat-Math Unit, Delhi) Seminars given at McMaster University, Canada on June 17, 1997.
- Parthasarathy, T.** (Stat-Math Unit, Delhi) participated and gave several lectures on Game Theory at the Winter School on LCP and Game Theory during December 15 -27, 1997 organised by the Indian Statistical Institute, Delhi Centre.

- Prakasa Rao, B.L.S. (Stat-Math Unit, Delhi) gave an invited talk (i) at the Third International Triennial symposium on Probability and Statistics held from Dec 26 - 28, 1997 at Calcutta University, (ii) at the special session on Wavelets held as a part of ISI Bernoulli Conference held at ISI, Calcutta during December 29 - January 1, 1998 and (iii) gave a special lecture in the Statistics section of the 83rd session of Indian Science Congress held at Hyderabad during January 3-7, 1998.
- Roy, Rahul (Stat-Math Unit, Delhi) attended conference on Recent Advances in Statistics and Probability held in Calcutta during December 29 - January 1, 1998 as an organiser and the chairperson of a session on Probability and Asymptotics.
- Sinha, K.B. (Stat-Math Unit, Delhi) attended as invited speaker in a conference on Infinite Dimensional Analysis and Quantum Probability and gave an invited lecture on (i) Probability, Geometry and Quantum Mechanics, (ii) 50 years of Mathematics - Operator Algebras and Mathematical Physics held during Nov 4 - 6, 1997 at the Institute of Mathematical Sciences, Chennai and a special lecture in the half-yearly meeting in July 1997 of the Indian Academy of Sciences, Bangalore.
- Bagchi, B. (Stat-Math Unit, Bangalore) gave two lectures on Homogeneous Operators at the Discussion meeting on Harmonic Analysis held at ISI, Calcutta during January, 1998.
- Joshi, S.N. (Stat-Math Unit, Bangalore) gave a talk at the Conference on Recent Advances in Statistics and Probability organised by Bernoulli Society and Indian Statistical Institute held at ISI, Calcutta during December 29, 1997 - January 1, 1998. He also participated in the Satellite meeting of International Society for Bayesian Analysis, Indian Chapter at Calcutta held on January 2, 1998.
- Misra, G. (Stat-Math Unit, Bangalore) gave two lectures on Homogeneous operators and representations of Mobius group at Discussion meeting on Harmonic Analysis at ISI, Calcutta during January 22-24, 1998.
- Natarajan, S. (Stat-Math Unit, Bangalore) gave an invited lecture On the dynamics of the logistic map at the National Symposium on Dynamical Systems and Ergodic Theory held at the University of Hyderabad during December 6-8, 1997.
- Rajarama Bhat, B.V. (Stat-Math Unit, Bangalore) attended (i) the mid-yearly meeting of Indian Academy of Sciences held at the Indian Institute of Science, Bangalore during July 18-19, 1997, (ii) the yearly meeting of Indian Academy of Sciences held at IITC, Hyderabad during November 1-3, 1997 and (iii) the conference on 50 years of Mathematics in Independent India held at the Institute of Mathematical Sciences, Chennai during November 4-6, 1997. He gave a lecture on Cocycles of CCR flows at ISI, New Delhi on October 3, 1997 and participated in the discussion meeting on Harmonic Analysis held at ISI, Calcutta during January 22-24, 1998.
- Ramasubramanian, S. (Stat-Math Unit, Bangalore) was a principal participant at the Discussion Meeting on Applications of Statistics and Probability in Science and Engineering held at the National Chemical Laboratory, Pune during June 12-13, 1997 sponsored by the DST. He gave an invited talk titled (i) Skorokhod problem in an orthonant at the National Symposium on Dynamical Systems and Ergodic theory held at the University of Hyderabad during December 6-8, 1997 and (ii) Skorokhod problem and an input output model at the National Seminar on Stochastic Systems held at the Department of Statistics, Mangalore University during February 5-7, 1998. He organised a session on Diffusion Processes at the International Conference on Recent Advances in Statistics and Probability jointly organised by the ISI and the Bernoulli Society) held at Calcutta during December 29, 1997 - January 1, 1998.
- Sitaram, A. (Stat-Math Unit, Bangalore) gave talk on Some questions in offbeat integral geometry at the Discussion meeting on Harmonic Analysis held at ISI, Calcutta during January 22-24, 1998. He also conducted the NBHM Nurture Programme for the 1994 batch of INMO awardees during July 1997 along with G. Misra, V. Pati, S. Thangavelu, S. Ramasubramanian and V. Borkar.
- Thangavelu, S. (Stat-Math Unit, Bangalore) gave an invited talk at the Conference on Function spaces and applications to partial differential equations held at the University of Delhi during December 15-19, 1997 and also gave a talk at the Discussion meeting on Harmonic Analysis held at ISI, Calcutta during January 22-24, 1998.
- SenGupta, Ashis (Applied Statistics Unit) visited Bidhan Chandra Krishi Vishwa Vidyalaya, W.B. as an External Expert for Thesis and Viva-voce at Dept. of Agricultural Statistics on February, 1998 and he delivered lectures on Multivariate Analysis at UGC Refresher course in Statistics, Post-Graduate level, ISI, Calcutta on March, 1998.
- Chaudhuri, B.B. (Computer Vision and Pattern Recognition Unit) visited (i) CDAC, Pune to review a project on OCR funded by Department of Electronics, (ii) Department of Electronics for TDIL (Technology Development on Indian Languages) during January 13-29, 1998 and (iii) Sambalpur University

during March 20-22, 1998 to give a series of lectures. He also attended International Conference on Computer Vision held at IIT Bombay during January 4-7, 1998.

Dash, N. (Computer Vision and Pattern Recognition Unit) delivered a series of lectures on NLP at the Ph.D. Association, Jadavpur University, Calcutta during July - August, 1997.

Bhattacharya, B.B. (Advanced Computing and Microelectronics Unit) visited (i) Dept. of Comp. Sc. & Applications, North Bengal University as an External Expert during April 1-4, 1997 and (ii) Department of Computer Science and Engineering, IIT, Kharagpur as an external expert in January, 1998. He also attended and presented a paper in the 11th International Conference on VLSI Design, Chennai during January 3-6, 1998.

Ghosh, Sarajit (Advanced Computing and Microelectronics Unit) attended the 11th International Conference on VLSI Design, Chennai during January 3-6, 1998.

Sinha, B.P. (Advanced Computing and Microelectronics Unit) visited (i) Guwahati as an external expert for the selection of faculty members in the Dept. of Information Technology, Tezpur Univ., Assam during August 8-10, 1997, (ii) Tezpur University, Tezpur, Assam and delivered a series of lectures on Parallel Processing during September 22-26, 1997 and (iii) Department of Computer Science & Applications, North Bengal University as an external expert during March 16-17, 1998. He also attended the International Conference on High Performance Computing 1997 (HiPC'97), Bangalore during December 18-20, 1997 as its program vice-chair and also presented a paper there and delivered a lecture at the one day seminar on High Performance Computing on December 28, 1997 organised by the Computer Chapter, IEEE Calcutta Section in collaboration with Department of Computer Science and Engineering, Jadavpur University.

Mitra, S. (Machine Intelligence Unit) delivered an invited talk at the International Workshop on Soft Computing and Intelligent Systems at ISI on January 13, 1998.

Pal, N.R. (Machine Intelligence Unit) delivered invited talks at the (i) Dept. of Computer Science, Jadavpur University and (ii) Department of Mathematics, Visva Bharati University.

Pal, S.K. (Machine Intelligence Unit) delivered invited talks at (i) International Conference on Science at High Altitude during May 8-11, 1997, Darjeeling, (ii) TRDDC, Pune on September 6, 1997, (iii) the National Conference on Information Technology (NCIT-97) during December 21-23, 1997, Udaipur, Bhubaneswar, Orissa, (iv) the Indian Science Congress Association, Osmania University, Hyderabad during January 3-7, 1998, (v) Theme lecture at the International Workshop on Soft Computing and Intelligent Systems during January 12-13, 1998, ISI, (vi) International Conference on Computers and Devices for Communication (CODEC'98) during January 13-17, 1998, Science City, Calcutta. He also attended the seminar on (i) Soft Computing at the Computer Science & Engineering Dept., Jadavpur University on January 19, 1998, (ii) Prof. A.K. Sengupta Memorial Talk, Dept. of Applied Physics, Calcutta University on January 17, 1998, (iii) SPAC (Student Professional Awareness Conference), All India Technical Seminar, TROIKA'98, IEEE, during February 7-8, 1998 at SCOPE Complex Auditorium, Dept. of Electronics, Delhi and delivered the Chief Guest Speech in the Valedictory Session.

Sarbadhikari, S.M. (Machine Intelligence Unit) delivered an invited talk at a seminar on Healthy society in the 21st century - through technology at the Asiatic Society (National Centre of Excellence), Calcutta on November 18, 1996.

Sinha, S. (Machine Intelligence Unit) delivered an invited talk at Department of Physics, Jadavpur University, Calcutta on July 21, 1997 and he also attended the Int. Conf. on Nonlinear Dynamics & Brain Functioning, Bangalore during February 2-7, 1998.

Gangopadhyay, Subrata (Physics and Applied Mathematics Unit) visited DRDO, Government of India Ministry of Defence, Raj Bhavan Circle Bangalore during January 4-8, 1998 and attended an International Workshop. He gave a talk on Control and Hybrid Systems at Centre for Artificial Intelligence and Robotics.

Mandal, B.N. (Physics and Applied Mathematics Unit) visited (i) Indian Institute of Science, Bangalore during May 25 - June 18, 1997 for Collaborative research and academic interaction and (ii) Visva Bharati, Santiniketan during January 8-10, 1998. He was invited as a Resource Person for delivering a course of lectures on Numerical Analysis in the second Refresher Course in Mathematics, Department of Mathematics, Visva Bharati.

- Roychoudhury, R.K.** (Physics and Applied Mathematics Unit) visited IASST, Gowahati, Assam during March 16-19, 1998 for Scientific Collaboration.
- Banik, Pabitra** (Agriculture Sciences Unit) visited National Centre for Agriculture, Economics and Policy Research (NCAP) to attend workshop on economic aspects of changes in rice production system in E.I. organised by IRRI & NCAP during April 2-4, 1997.
- Sasmal, T.** (Agriculture Sciences Unit) visited Dept. of Agricultural Extension, Agricultural Economics and Agricultural Statistics, Visva Bharati, Sriniketan, West Bengal to attend the National Symposium on Social Science perspective in Agricultural Research during December 18-20, 1997.
- Majumder, P.P.** (Anthropology and Human Genetics Unit) visited (i) Centre for Cellular and Molecular Biology, Hyderabad during November 9-10, 1997 and delivered an invited Open Lecture on Genetic Epidemiology of Complex Human Disorders, (ii) Guru Nanak Dev University, Amritsar during February 17-19, 1998 and delivered 4 lectures on population genetics and DNA finger-printing. He delivered an invited lecture on (i) DNA Profiling : Population genetic and Related Issues in the first National Conference of the Association of DNA Fingerprint at Indian Institute of Chemical Technology, Hyderabad, April 12, 1997 (ii) Population Genetics and DNA Forensics, Calcutta University, May 5, 1997 (iii) Human Genome Diversity Studies in the Symposium on Genome Research : Emerging Ethical, Legal, Social and Economic issues, Goa, May 22-25, 1997 (iv) Genetic Diversity and Affinities in Indian Populations and chaired a session on Evolution of Genes and Genomes in the Conference on Trends in Biochemistry, Calcutta, September 16-17, 1997 (v) Genome Diversity Studies in Indian Populations in the Indo-Israeli Workshop on Human genetics, Bangalore, November 18-19, 1997 (vi) Genetic Studies in Indian Populations in the DAE Symposium on Recent Advances in Genetic Epidemiology and Population Monitoring, Chennai, March 1998. He also delivered the Platinum Jubilee lecture on Statistical Analysis of Family Data on Complex Human Disorders in the Statistics section of the Indian Science Congress, Hyderabad, January 3-7, 1998.
- Duttaputta, Chandralakha** (Biochemistry Unit) participated by invitation (i) in teaching a course entitled Apoptosis, Cancer & Chemoprevention, in a DBT and sponsored Winter School on Human Genetics Concepts, Paradigms and Methods organised by ISI, IICB, and SINP Calcutta (ii) in offering a lecture and practical demonstration of 'Apoptosis and its detection by Tunnel method' in a pre-convention workshop on Molecular genetics of Human Cancer, organised by the Indian Association for Cancer Research, January 19-20, 1998.
- Kabiraj, Tarun** (Economic Research Unit) gave invited lectures on (i) Breakdown of Joint Ventures at the Bengal Economic Association on April 27, 1997, (ii) Oligopoly and Games at the Academic Staff College, University of Burdwan during June 24-25, 1997 and (iii) Technology Transfer and Economic Development as a part of the Refresher Course at Jadavpur University on March 11, 1998.
- Mukherjee, Robin** (Economic Research Unit) acted as an official panelist in the panel discussion in a national seminar on Natural Resource Management.
- Bandyopadhyay, Debaprasad** (Linguistic Research Unit) continued his commitments as Visiting Faculty at the Dept. of Folklore, University of Kalyani during 1997-1998.
- Choudhry, Amitav** (Linguistic Research Unit) visited M.S. University, Baroda to participate as a resource person at a Workshop on Linguistic Diversity during December 9-12, 1997. He participated as a resource person at a Workshop on Sociolinguistic Survey of variation in Telugu, jointly organised by Department of Language Planning and Modernisation, School of Language Development, P.S. Telugu University Hyderabad and Central Institute of Indian Languages, Mysore and held at P.S. Telugu University, Hyderabad during October 20-25, 1997 and in the second phase of the Workshop which was held at P.S. Telugu University Hyderabad during December 23-24, 1997.
- Madali, Devika P.** (Documentation Research and Training Centre, Bangalore) has attended (i) MINISIS Training Programme at SNT Women's College, Mumbai from 17-21, (ii) IASLIC National Seminar held at Coimbatore from December 26-31, 1997 and (iii) SIS-98, held at Hyderabad University, Hyderabad from March 11-13, 1998.
- Prasad, A.R.D.** (Documentation Research and Training Centre, Bangalore) was invited by (i) Andhra University to deliver few lectures at the Academic Staff College from 23-27 February, 1998, (ii) Vidyasagar University, Midnapore, to present a paper and chair a technical session of a National Seminar on Information Technology, from 23-27 March 1998. He also attended the SIS-98, held at Hyderabad University, Hyderabad from 11-13 March 1998 and Chaired the Special Interest Group Meeting on "Library Networks" at the IASLIC National Seminar held at Coimbatore from 26-11 December, 1997.
- Rao, I.K. Ravichandra** (Documentation Research and Training Centre, Bangalore) visited by invitation (i), the INFLIBNET to attend the meeting at Calcutta to discuss the issues pertaining to CALIBER-98

during September 8-9, 1997. (ii) Mysore University Academic Staff College as a Resource Person for Refresher course in Library and Information Science during November 27 - December 5, 1997. (iii) the Gulbarga University as a Resource Person for the National Seminar on Application of Information Technologies in India Status, Strategies, Opportunities and Problems during January 8-10, 1998 and he was also Chairman of the Editorial Committee. (iv) the United States Information Service (USIS), Chennai for a meeting on Rural Development Information System & Services at Chennai during February 24, 1998 and (v) the CALIBER-98 as a member of the Programme Committee held at Bhubaneswar during March 3-6, 1998 and presented the paper and also he chaired a Technical Session.

- Ankan, M.V. (Statistical Quality Control and Operations Research Division, Coimbatore) gave a lecture on "Quality-Supervisors Role" at PBL, Palakkad on February 19, 1998 and series of lectures on Quality Management at Amrita Institute of Management, Coimbatore during November-December, 1997.
- Bhimasankaram, P. (Statistical Quality Control and Operations Research Division, Hyderabad) acted as Chairman of a Session on inference at the Bernoulli Society Conference held at ISI Calcutta during December 28, 1997 - January 1, 1998.
- Chakravarty, S.C. (Statistical Quality Control and Operations Research Division, Delhi) served as a Member Faculty Selection Committee of the Foundation for Organisational Research, New Delhi and 3 Committees of BIS. He also gave a short course of lectures on (i) "Statistical Methods for Quality Improvement" to about twenty Executives of SAIL Plants of Management Training Institute, Raichur. (ii) "Quantitative Techniques" to about 150 students of FORE SCHOOL OF Management, New Delhi (iii) SPC to about 20 participants in a Programme Organised by Indira Management Association during December 9-10, 1997.
- Date, K.M. (Statistical Quality Control and Operations Research Division, Pune) was a member of the Western Regional Evaluation Committee for Rajiv Gandhi National Quality Award (1994) during July - August 1997.
- Geel, R. (Statistical Quality Control and Operations Research Division, Delhi) acted as a member of the Executive Committee of the NIQR, Delhi Chapter and gave lectures on (i) TQM at SISI, New Delhi and (ii) OR in Marketing at Delhi University for their MBA Students.
- Lakshminathan, P.R. (Statistical Quality Control and Operations Research Division, Delhi) was a member at BIS Committee and has been collaborating with CSIR (NIS TADS) on a Project on "Innovation Indicators in Indian Industries".
- Majumdar, B. (Statistical Quality Control and Operations Research Division, Delhi) acted as a member of the (i) Expert Committee for the Rajiv Gandhi National Quality Award Organised by the BIS and (ii) Executive Committee of the NIQR, Delhi Chapter. He also delivered an invited lecture on Statistical Methods to Participants of Management Programme, Conducted by First Computers, New Delhi.
- Mohan, S.R. (Statistical Quality Control and Operations Research Division, Delhi) served on two Committees of BIS and worked on a Special Project on Management of Foreign Exchange Reserves with RBI, Bombay.
- Rao, N.T.V. Ranga (Statistical Quality Control and Operations Research Division, Hyderabad) provided Consultancy guidance to Mr. S.E. Sridharam of NSRDC on February 5-6, 1998 on the ongoing Software Development Project.
- Seh, A. (Statistical Quality Control and Operations Research Division, Delhi) delivered an invited talk at the Dept. of Science and Technology on "Statistical Analysis of Proficiency Testing", under the NABL Programme.

PART III. ADMINISTRATION AND OFFICE BEARERS

11. GENERAL ADMINISTRATION

Administrative Services Division

The Administrative Services Division at the headquarters caters to the various needs of the scientific workers of the Institute engaged in various scientific research and academic activities and provides them with necessary infrastructural facilities in their pursuit of excellence. The centres at Delhi and Bangalore, each having a number of science of science units are, by and large, self-sufficient in providing administrative support to the scientific workers. The division has different units in Calcutta as mentioned below:

Accounts Section : The Accounts Section keeps the accounts of all financial transactions made by the Institute and admits claims including personal claims preferred by workers and outsiders after proper check. This section is responsible for final closure of accounts and preparation of Income and Expenditure Account and Balance Sheet of each financial year. They are also in contact with the Statutory Auditors in the course of audit of final accounts. The Provident Fund Unit (PF) under this section maintains the accounts of provident fund of individual workers of the Institute and deals with PF loans and withdrawal and final payment of PF balance.

Council Section : The Institute is a registered society with a large number of Ordinary and Life members. The Section maintains liaison with the members and satisfies their requirement including sending of Sankhya, the Indian Journal of Statistics, published by the Institute, to the members of the Institute. The Section arranges holding of meetings of General Body, the Council, Finance Committee, Section 8(1) Committee etc. This section is attached to CAO's Office.

Director's Office and CAO's Office : Director is the principal executive officer of the Institute and the head of all its academic and administrative activities where Chief Administrative Officer (CAO) is in overall charge of General Administration, Financial and Personnel Management in respect of Administrative Services Division. Both the offices are entrusted with the task of providing all help and support to these two very important functionaries of the Institute. They are required to maintain confidential records, issue circulars, interact with various research and administrative divisions and maintain liaison with outside centres and branches of the Institute.

Engineering Unit : The Unit is responsible for day to day maintenance of the office/staff quarters and supply of water in the buildings housing various divisions and staff quarters. The Unit also looks after all new constructions.

Electrical Maintenance Unit : The Unit is responsible for day to day maintenance of the office/staff quarters and supply of electricity to all buildings including staff quarters.

Estate Office : The Institute has a very big campus comprising buildings, ponds and vacant space. The Estate Office looks after all the estates and properties of the Institute and also maintains regular conservancy services.

Medical Welfare and Reimbursement Unit : The workers of the Institute are entitled to medical claims as per CSMA rules of the Government of India. Besides there is a small dispensary with facilities of consulting general physicians and specialists for the campus residents and also for the workers residing nearby. The medicines are supplied free. At present there are three regular doctors and several part-time specialist doctors attached to the dispensary. The Medical Reimbursement Unit is entrusted with the payment of all medical claims submitted by workers as per CSMA rules and the Medical Welfare Unit looks after the functioning of the dispensary with all attended activities.

Personnel Unit : The Personnel Unit deals with all service matters like appointments, promotions, transfers, disciplinary action, redressal of grievances, retirements etc. in respect of all the workers of the

insure and maintains all records in connection thereto. The Retirement Benefit Cell attached to the Unit deals with the payment of retirement benefits workers like pension, death-cum-retirement gratuity etc.

Public Relations Unit : All sorts of public relations activities are being carried out by the Unit on behalf of the Institute. During the year, the Unit arranged elaborate media coverage of (i) Regional Mathematical Olympiad'97 on December 07, 1997 (ii) International conference on "Recent Advances in Statistics Probability" during December 29, 1997-January 01, 1998 (iii) International Workshop on "Soft Computing and Intelligent Systems" during January 12-13, 1998 (iv) International Conference on "Computational Linguistics, Speech and Document Processing" during February 18-20, 1998 (v) Two-day National Symposium on "Methods in Quantitative Linguistics" during March 3-4, 1998 (vi) Annual Convocation of the International Statistical Education Centre held on March 30, 1998 (vii) On different scientific research activities of the Institute. The Unit issued a number of press releases during the year in connection with various scientific programmes/research activities. City tour for ISEAC trainees was organised by the Institute.

Another important job of the Unit is to prepare and publish the Annual Report each year under the guidance of an Editorial Board and arrange for its distributions to different universities in India and abroad and also to the Government departments. Distribution of ISI News Letter throughout the country is also done by the Unit.

Publication and Printing Unit : The Unit was formed in August 1991 when the Statistical Publishing Society was formally taken over by the Institute. It undertakes printing and binding work of the Institute. It also looks after the distribution of Sankhya world wide. It also undertakes printing and binding works of special nature from outside agencies. Steps were taken to modernise the existing letter press in to an offset one. The modernisation committee, constituted by the Director, made a comprehensive modernisation plan for the first phase and recommended purchase of an offset printing machine (23" x 36") as well as a printing down frame during the year which were procured and installed.

Another important activities of the Unit is to prepare and maintain separate accounts for it including monthly disbursement of salary and other payments. The Unit has it's own despatch cell which has been upgraded with the installation of latest electronic franking machine during the year.

Binding Unit : The Institute has a large library with books and journals which are required to be bound regularly. Besides, various research divisions bring out research proposals, administrative division brings out book-lets on budget for presentation to the Ministry. All such and many other documents are bound throughout the year in the Binding Unit.

Central Office : The Central Office is in charge of receipts and despatch/distribution of all official correspondences, circulars/office orders etc of the Institute. Despatch Section of Central Office is now well equipped with the latest electronic franking machine for timely despatch of all kinds of communication of the Institute. Maintenances and services of all type writers and duplicators of the Institute are done by the Unit through Annual Maintenance Contract (AMC) with respective agency. Another important job of Central Office is to arrange condolence meetings at the demise of Institute workers and send resolutions of the meeting to their bereaved families.

Central Stores Unit : All stationery and articles including furniture required for use in various divisions of the Institute are procured through Central Stores Unit. They also procure and store materials required for day to day maintenance of building, water and electric supply. A small Tailoring Unit is attached to it.

Security Unit : Security Unit is entrusted with the important task of maintaining security of the vast campus of the Institute and its properties.

Telephone Unit : The Unit manages two electronic exchanges installed by Crompton and Greaves Ltd. in the Institute's premises. The main one (NE-1100) is housed at 202, B.T. Road and a small one (NE 20M) is housed at 205 B.T. Road. The two are interconnected. The NE 110 is manned by operation during working hours and works in automatic mode otherwise. NE (20M) operates in automatic mode.

Transport Unit : Besides a fleet of vehicles, the Institute has four buses and an ambulance. The vehicles are for use by the visiting scientists and dignitaries and by the workers in carrying out the activities of the Institute. The buses are used for transporting worker from eastern and southern part of Calcutta and its suburbs. The ambulance is used to carry ailing workers or members of their families to and from hospital for emergency treatment on recommendation of the doctors attached to Medical Welfare Unit. The Transport Unit looks after the use and maintenance of the vehicles.

Guest House : During the year new international guest house came into being with all sophisticated facilities which fulfilled a longfelt need. This will not only enhance the accommodation capacity to a great extent but also provide excellent conference facilities.

Apart from the Units mentioned above, there are some small cells dealing with Internal Audit, Budget, Import, Travel and House Building Advances etc. take care of the specific needs of the Institute. The Administrative Services Division also looks after the running of hostels for students, research scholars and International Statistical Education Centre (ISEC) trainees and also the running of Canteen for the workers and students of the Institute. The other outlying Units numbering eight are controlled directly by the headquarter at Calcutta. The Administrative Services Division takes the responsibility for all new construction activities of the Institute at its headquarter and also at outlying centres/branches. A brief report on the construction activity in the current year is given later.

The activities of the Administrative Services in the two Centres, namely Delhi and Bangalore, and in other outlying branches of the Institute are more or less the same but in a much smaller scale. Depending on the needs of the branches/centres the number of Units have been truncated and merged into fewer units.

Staff of the Institute

The Government of India agreed that ISI might continue with the staff strength, the various of posts, scales of pay, promotional policies and other service condition as was existing in the past before imposing embargo. They also allowed revision of the payscales as approved by the Council for all categories including categories of posts for non faculty workers where certain anomalies existed. As a result of the clearance from the Government, the Institute has undertaken measures to recruit workers in various categories where there are acute shortages. The following senior members of the staff worked in the posts indicated against their names during the year.

<i>Director</i> :	S.B. Rao
<i>Dean of Studies</i> :	P.S.S.N.V.P. Rao
<i>Head, Delhi Centre</i> :	Atul Sarma, up to 1.07.97 (FN) Dipankar Dasgupta, from 1.07.97 (AN) to 31.12.97 (Officiating) K.B. Sinha, from 1.01.98 (Acting)
<i>Acting Head, Bangalore Centre</i> :	B.K. Pal, up to 30.11.97 Gadadhar Misra, from 1.12.1997
<i>Chief Administrative Officer</i> :	G.H. Mandal, up to 1.02.1998 (FN)
<i>In-Charge, Administration & Finance</i> :	Anup Majumdar, from 1.02.1998 (AN)

New Appointments

List of workers (Scientific/Technical/Administrative) recruited in the pay-scale of Rs.2200-4000 or above (pre-revised) during the year.

1. Ujjwal Bhattacharya, Data Processing Technician
2. Subhamoy Maitra, Computer Engineer
3. B. L. Lakshminarayana, Administrative Officer
4. K. Sundararajan, Security Officer
5. Somnath Lahiri, Engineer (Civil) Gr.I
6. Sudipta Dasgupta, Associate Professor
7. E. V. Gijo, Technical Officer (SQC) Gr.III
8. Biswabrata Pradhan, Technical Officer (SQC) Gr.III
9. S. S. Sethi, Administrative Officer (On Deputation)
10. Madhuchhanda Bhattacharya, Data Processing Technician
11. Pabitra Bandyopadhyay, Lecturer

List of workers (Scientific/Technical/Administrative) who retired/resigned/died from the services of the Institute during the year.

1. B. Dasarathi (7035), Executive Officer
2. K.L. Sehgal (3869), Senior Lecturer
3. S. Seccharama (7396), Professor
4. D. Ghoshal (3987), Professor
5. Amiya Mukherjee (7805), Professor
6. P. Lakshmanan (7053), Senior Technical Officer
7. Y. Ramakrishna Sharma (7124), Professor
8. Y.R. Rau (2980), Senior Technical Officer (SQC)
9. Ashis K. Dey Bhowmick (3343), Executive Officer
10. Basanta K. Pal (3988), Senior Technical Officer (SQC)
11. T. V. Hanurav (7145), Professor
12. M.V. Laxamana Swamy (3941), Technical Officer Gr. II (SQC)
13. V. Gopalan (3151), Senior Technical Officer (SQC)
14. Amitava Basu (7385), Professor
15. T. Krishnan (3919), Professor

Number of workers in the Institute as on 31 March, 1998 :

(i) Scientific and Technical Workers	- 509
(ii) Non-Scientific Workers	- 1086
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Total	1595

Budget and Finance

For the year 1997-98 the Institute's budget was estimated to be Rs.1992.60 lakhs and Rs.1295.91 lakhs towards Non-Plan and Plan respectively at the BE stage. The Govt. after considering the report of the Section 8(1) Committee approved a sum of Rs.1843.60 lakhs including internal receipts and Rs.1000.00 lakhs for Non-Plan and Plan expenditure respectively. At the revised estimates stage in 1997-98, the Institute sought for a grant of Rs.2197.50 lakhs and Rs.1022.742 lakhs in Non-Plan and Plan estimates respectively. Besides this, the Institute had also asked for an additional amount of Rs.1484.87 lakhs in RE 1997-98 (Non-Plan) due to implementation of 5th Pay Commission's recommendations. Against this, Section 8 (1) Committee recommended a sum of Rs.2744.25 lakhs on Non-Plan including the internal receipts of Rs.50.00 lakhs in RE 1997-98 and Rs.900.00 lakhs in Plan estimate for 1997-98. However, Government released a sum of Rs.2246.05 lakhs during 1997-98 under Non plan. The expenditure during the year under report was well within

the budget allocation sanctioned by the Government. The Audited Annual Accounts of the Institute for the year 1997-98 have been furnished in part IV of this report.

Land and Construction

The following major activities were undertaken by the Institute during 1997-98.

Calcutta

Interior Decoration Work at New Guest House

The work has been completed in all respects at a total cost of Rs.49.00 lakhs (approx). It included supply and fixing of items as wooden furniture as chairs, tables, dining table, lounge furniture, decorative partition walls, sofas, television, curtains, carpets etc.

A-type quarters

Soil-tests have been completed at a total cost of Rs.19,670.00 and report submitted to the consultant (M/S. Development Consultants Limited). The consultant has completed preparation of structural drawings and submitted draft tender papers for approval by I.S.I. The same has been approved and preparation of final tender papers is well under way. Notice inviting tender is expected to be published soon

The consultant has been paid fees amounting to Rs.38,300.00.

Canteen Building

Soil tests have been completed at a cost of Rs.19,490.00 and report submitted to the consultant (M/S. Development Consultants Limited). The final layout drawing, submitted by the consultant, has been approved by I.S.I. The consultant has been advised to proceed with preparation of Tender documents and drawings for submission to Municipality.

Bank and Post-Office Building

Soil tests have been completed at a cost of Rs.19,690.00 and report submitted to the consultant. (M/S. Development Consultants Limited). The final layout drawing has been approved and the consultant has been advised to proceed with preparation of Tender documents and drawings for submission to Municipality.

Academic Building

Soil tests have been completed at a cost of Rs.32,835.00 and report submitted to the consultant. The conceptual drawing and detailed Layout drawing, prepared and submitted by the consultant (M/s. Dulal Mukherjee and Associates), have been approved I.S.I. The consultant has been advised to proceed with preparation of drawings for submission to Municipality.

Major Renovation of old Buildings

M/S. Development Consultants Limited has been engaged as consultant to study, report and advise I.S.I. to do all that is necessary for thorough renovation of RTS and Geology building and building Nos 1, 2, 3 and 4. The consultant has surveyed the conditions of the buildings and discussed with I.S.I.

Road Connecting G.L.T. & B.T. Road with Boundary Walls

Necessary approval of Baranagar Municipality and final agreement between Municipality and I.S.I has been completed. Preparation of tender papers etc. is only in the initial stages.

Boundary Walls

Weak sections of boundary walls have been dismantled and reconstructed at several locations. The entire allocated fund has been exhausted.

C and D Type Quarter

Soil-tests have been completed at a cost Rs.19,690.00 for construction of one block of D-Type quarter at Deluxe Garden. An escalation bill amounting to Rs.1,89,296.86 against earlier construction of One block of D-Type quarter has been submitted by the contractor. The same is under scrutiny.

Delhi

The construction work of Administrative Building has been entrusted to CPWD.

Bangalore

Addition to the Hostel Block some extra work has been taken up for construction. The work is in progress.

Society Type Activities

Membership April 1997 - March 1998

During the period 125 persons were elected as Ordinary Members of the Institute and 16 Ordinary Members became Life Members.

The membership position as on 31st March 1998 is as follows :

Ordinary Members	- 1560
Life Members	- 449
Institutional members	- 14
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Total	- 2023
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Finance Committee Meeting . The Finance Committee met twice, on 23 July 1997 and 17 October 1997, during the period under report. Apart from taking various decisions on financial matters, the committee recommended RE 1997-98 and BE 1998-99 (Plan and Non-Plan) in their meeting on 23 July 1997 and considered and recommended the Annual Report including Audited Statement of Accounts for the year 1996-97 in their meeting held on 17 October 1997.

Council Meeting : The Council met four times during the period under report to take decisions on administrative and scientific matters. In the Council meeting held on 26 July 1997, the budget proposals both for Plan and Non-Plan (RE for 1997-98 and BE for 1998-99) as recommended by the Finance Committee in its meeting held on 23 July 1997. In the meeting dated 20 October 1997 the Annual Report including the Audited Statement of Accounts for the year 1996-97 were considered by the Council and was approved.

A list containing the names of the President of the Institute, Chairman and members of the Council of the Institute and also a list of members of different committees constituted by the Council are given elsewhere in the report.

Annual General Meeting : The General Body of the Institute met on 27 October 1997 and during the period under report. The Annual Report of the Institute for the year 1996-97 and Audited Statement of Accounts for the year 1996-97 together with the Auditor's comments and replies of the Administration thereto were adopted in the meeting of the General Body on October 17, 1997.

12. LIST OF MEMBERS

(Academic Council and Other Committees as on March 31, 1998)

Academic Council

1. S.B. Rao, Director - Chairman
2. P.S.S.N.V.P. Rao, Dean of Studies, Convener

Theoretical Statistics and Mathematics Division

1. T. Chandra, 4. Rana Barua (El. Rep.), 5. Smarajit Bose (El. Rep.), 6. J.K. Ghosh, 7. T.J. Rao, 8. B.V. Rao, 9. A.R. Rao, 10. A.K. Roy, 11. G.M. Saha, 12. Bikash Sinha, 13. T.P. Tripathi, 14. H. Sarbodhikari, 15. S.M. Srivastava, 16. K.K. Mukherjee, 17. Anup Bose, 18. Ratan Dasgupta, 19. R.B. Ilapat, 20. R. Bhunia, 21. Aloke De, 22. R.L. Karandikar, 23. T. Parthasarathy, 24. B.L.S. Prakasa Rao, 25. K.B. Sinha, 26. K. Balasubramanian, 27. S.C. Kochar, 28. Chuni Gopal Bhattacharjee, 29. K.P.S.B. Rao, 30. A. Sitarant, 31. S. Thangavelu, 32. G. Misra, 33. S. Ramasubramanian, 34. N.S.N. Sastry, 35. T.S.S.R.K. Rao, 36. S. Natarajan, 37. Bhaskar Bagchi, 38. K. Ramamurthy, 39. P.L. Mutharamalingam.

Applied Statistics Division

40. Ajoy Kumar Adhikari, 41. Shibdas Bandyopadhyay, 42. K.S. Vijayan, 43. Arijit Choudhuri, 44. Anup Dewanji (El. Rep.), 45. Ayanendra Nath Basu (El. Rep.), 46. C.H. Sastry, 47. A.C. Mukhopadhyay, 48. Astish SenGupta

Social Sciences Division

49. Sanjit Bose, 50. Satya Ranjan Chakravarty, 51. D. Coondoo, 52. Pradip Maiti, 53. Robin Mukherjee, 54. Abhirup Sarkar, 55. Manabendu Chattopadhyay, 56. Snigdha Chakraborty (El. Rep.), 57. Tandra Rao, 58. B. N. Bhattacharya, 59. Atis Dasgupta, 60. Parkash Chander, 61. D. Dasgupta, 62. Bhaskar Dutta, 63. Subhasish Gangopadhyay, 64. P.N. Mukherjee, 65. Atul Sarma, 66. Satya Prakash Das, 67. N.S.S. Narayana, 68. T. Krishna Kumar.

Biological Sciences Division

69. Anjana Dewanji (El. Rep.), 70. Barun Mukhopadhyay (El. Rep.), 71. P.P. Majumdar, 72. K.C. Malhotra, 73. R. Gupta, 74. D.K. Bagchi, 75. P.K. Tapasvi, 76. S. Matai.

Physics and Earth Sciences Division

77. S.S. Dandapat, 78. B.N. Mandal, 79. B.S. Majumdar, 80. Raj Kumar Roychoudhury, 81. Subroto Bhattacharya, 82. Sisir Roy, 83. Krishna Kumar (El. Rep.), 84. Himadri Pni Majumder, 85. A.K. Choudhuri, 86. T.S. Kuty, 87. D.K. Rudra.

Computer and Communication Sciences Division

88. Susmita Mitra, (El. Rep.), 89. Sankar Pal, 90. M.K. Kundu, 91. N.R. Pal, 92. B. B. Bhattacharya, 93. M.K. Chakrabarti, 94. B.P. Sinha, 95. J. Dattagupta, 96. J. Das, 97. A.K. Dey, 98. K.S. Roy, 99. B. Chanda, 100. B.B. Chaudhuri, 101. Probati Sengupta.

Statistical Quality Control and Operations Research Division

102. T.K. Chakrabarty, 103. S.K. Majumdar, 104. S.P. Mukherjee, 105. R.J. Pandey, 106. D.T. Ghosh, 107. Anup Majumdar, 108. S. Sengupta, 109. Ranjan Sett (El. Rep.), 110. Amitava Bandopadhyay, 111. Satya Chakraborty, 112. S.S. Handa, 113. S.R. Mohan, 114. Arvind Seth, 115. B. Majumdar, 116. K.N. Anand, 117. A.K. Choudhuri, 118. Kalyan Choudhuri, 119. Y.R. Rau, 120. N.T.V. Ranga Rao, 121. J. Venkatasappaiah, 122. P. Bhimasankaram, 123. P. Lakshmanan, 124. C.Y. Krishnamurthy, 125. V. Gopalan, 126. M.V. Asokan (El. Rep.).

Library, Documentation, and Information Sciences Division

127. Chitta Bhattacharya, 128. I.K. Ravichandra Rao.

Computer and Statistical Services (CSSC)

129. Aditya Bagchi, 130. S.C. Kundu.

Member-Secretary, ISEC

131. Parimal Mukhopadhyay.

Secretary, Examination Committee

132. A.C. Mukhopadhyay

Other Committees of the Institute

A. Finance Committee

(1) Director (Ex-Officio Chairman), (2) Shri A.K. Adhikari, (3) Dr. D.K. Bose, (4) Dr. M.K. Chakrabarti, (5) Dr. Rajkumar Roy Chowdhury, (6) Shri A.K. Ghosh, (7) Dr. S. Matai, (8) Shri Sashi Kanta Mishra, (9) Dr. Robin Mukherjee, (10) Dr. P.N. Roy, (11) Dr. A.R. Rao, (12) Dean of Studies, (13) Chief Administrative Officer, (14) Head, Delhi Centre or his nominee, (15) In-Charge, Bangalore Centre or his nominee, (16) Govt. Representative (Deptt. of Statistics), (17) Govt. Representative (Ministry of Finance), (18) Head, SQC & OR Division, (19) Chief Librarian, (20) In-Charge, Internal Audit, (21) Shri S.S. Panja (Non-Member Secretary).

B. Editorial Committee

Editors: Sankhyā A and B

Dr. S. Dasgupta, Dr. J.K. Ghosh

Co-Editors: Sankhyā A

Prof. P.K. Bhattacharya, Dr. Sujit Kumar Basu, Dr. Anup Bose, Dr. Anirban Dasgupta, Dr. Mohan Delampady, Dr. R.L. Karandikar, Dr. Hiralal Koul, Dr. Kessar Singh.

Co-Editors: Sankhyā B

Dr. Bimal Kumar Sinha, Dr. Dipankor Coondo, Dr. Alope Dey, Dr. S.R. Mohan, Dr. T.J. Rao, Dr. Anup Dewanjy.

Managing Editors

Dr. Anup Bose (Sankhyā A); Prof. T.J. Rao (Sankhyā B)

C. Advisory Members

Prof. Aman Ullah, Prof. D. Dasgupta, Prof. G. Jogesh Babu, Prof. G. Kallianpur, Prof. K.R. Parthasarathy, Prof. B.L.S. Prakasa Rao, Dr. C.R. Rao, Dr. J. Roy, Prof. P.K. Sen, Prof. J. Secharman, Prof. N. Bhattacharya, Prof. R.R. Bahadur, Prof. S.K. Mitra, Prof. S.R.S. Varadhan, Prof. Malay Ghosh.

D. Works Advisory Committees

Calcutta

1. Dr. P.N. Roy, (Chairman), 2. Dr. M.K. Chakrabarti (Vice-Chairman), 3. Shri A.K. Adhikari, 4. Dr. Somesh Bagchi, 5. T.S. Kutty, 6. Shri Anup Majumder, 7. Dr. Partha P. Majumder, 8. Dr. Robin Mukherjee, 9. Dr. P.S.S.N.V.P. Rao, 10. Chief Administrative Officer, 11. Shri A.K. Ghosh, 12. Shri Sashi Kanta Mishra, 13. In-Charge, Enge. Unit, 14. Outside Experts (Civil Engineer), 15. Outside Expen (Architect), 16. Shri Anjan Mookherjee (Convener).

Delhi

1. Shri S. Bose Mullick (Chairman), 2. Shri A.P. Jain, 3. Shri T.S.R. Ratnam, 4. Shri B.K. Sen, 5. Head, Delhi Centre, 6. Prof. T. Parthasarathy, 7. Dr. S.C. Kochar, 8. Prof. Dipankar Dasgupta, 9. Shri B. Majumder, 10. Shri S.S. Handa, 11. Chief Administrative Officer, 12. Administrative Officer, Delhi Centre, 13. Shri D.N. Sabharwal (Convener).

Bangalore

1. Prof. G. Bhattacharya, (Chairman), 2. Prof. M.k. Prapulla Chandra, Head, Deptt. of Civil Engineering, R.V. College, Bangalore, 3. Head, Bangalore Centre, 4. Chief Engineer (C & B) Govt. of Karnataka or his nominee, 5. Outside Expert

E. Ph.D./D.Sc. Committee

1. Director (Chairman), 2. Prof. Pradip Maiti, 3. Prof. Sanjit Bose, 4. Prof. Prakash Chander, 5. Prof. Partha P. Majumder, 6. Prof. G. Misra, 7. Prof. A.C. Mukhopadhyay, 8. Prof. Sankar K. Pal, 9. Prof. B.V. Rao, 10. Prof. A.K. Roy, 11. Prof. B.P. Sinha, 12. Prof. B.K. Sinha, 13. Dean of Studies, 14. Prof. A.R. Rao (Convener).

F. Technical Advisory Committees of different Divisions

Theoretical Statistics and Mathematics Division

1. Director (Chairman), 2. Prof. M.G. Nadkarni, Centre for Advanced Study in Mathematics, University of Bombay, Vidyanageri Marg, Vidyanageri, Bombay-400098, 3. Prof. S.K. Basu, Indian Institute of Management, Diamond Harbour Road, JOKA, South 24 Parganas, 4. Prof. J.V. Deshpande, Deptt. of Statistics, University of Pune, Ganeshkhind, Pune-411007, 5. Prof. M. Srechari, M.S. University of Baroda, Baroda, 6. Prof. R. Sridharan, Tata Institute of Fundamental Research, Bombay, 7. Prof. U.B. Tewan, Indian Institute of Technology, Kanpur, 8. Prof. K. Viswanath University of Hyderabad, Hyderabad, 9. Prof. B.K. Sinha, Professor-in-Charge (Convener).

Applied Statistics Division

1. Director (Chairman), 2. Dr. S.S. Srivastava, DG, CSO, Deptt. of Statistics, Govt. of India, Sarfaraj Patel Bhawan, Sansad Marg, New Delhi 110001, 3. Prof. S. Pattanayak, Sambalpur University, Sambalpur, 4. Dr. P.S.S. Sundar Rao, Schiefalin Leprosy Research Centre, Karigin, North Arcot District, Pin-612102, 5. Prof. J.V. Deshpande, Department of Statistics, University of Poona, Ganeshkhind, Pune 411072, 6. Prof. S.K. Basu, Indian Institute of Management, Calcutta, 7. Dr. Prem Narain, I.A.S.R.I., Delhi 110012, 8. Shri A.K. Adhikari, Professor-in-Charge (Convener).

Computer & Communication Sciences Division

1. Director (Chairman), 2. Prof. B.I. Deekshatulu, FNA, N.R.S.A., Hyderabad-500037, 3. Prof. B.R. Nag, FNA, Calcutta University, Calcutta-700009, 4. Prof. Somenath Biswas, I.I.T., Kanpur-208106, 5. Dr. B.M. Reddy, FNA, National Geophysical Research Institute, Hyderabad-500007, 6. Dr. S.S. Agarwal, C.E.E.R.I., New Delhi, 7. Prof. Mohit Kumar Ray, Jadavpur University, Calcutta-700032, 8. Prof. A.K. Majumder, I.I.T., Kharagpur-721302, 9. Prof. A. Pal, I.I.T., Kharagpur-721302, 10. Prof. L.M. Patnaik, FNA, I.I.Sc., Bangalore-560012, 11. Prof. V.V.S. Sharma, FNA, Tata Research Development & Design Centre, Pune-411001, 12. Prof. S.C. Dutta Ray, FNA, I.I.T., Delhi-110016, 13. Prof. P.V.S. Rao, FNA, T.I.F.R., Mumbai, 14. Dr. M.K. Chakrabarti, Professor-in-Charge (Convener)

Physics and Earth Sciences Division

1. Director (Chairman), 2. Prof. A.N. Mitra, FNA, University of Delhi, Delhi-110007, 3. Prof. Bikas Sinha, Director, Variable Energy Cyclotron Centre, I/AF, Bidhannagar, Sector-1, Calcutta-700064, 4. Prof. Kamreshu, School of Computer Science, Jawaharlal Nehru University, New Delhi 110016, 5. Prof. Pradip Neogi, Indian Institute of Technology, Kharagpur, Midnapur 721302, 6. Prof. Saurindra Nath Sen, D.Sc. FNA, 16/4/18 N.S.C. Bose Road, Calcutta - 45, 7. Dr. S.K. Acharya, Director General, Geological Survey of India, 27 Jawaharlal Nehru Road, Calcutta 700016, 8. Prof. Ashoke Sahni, Punjab University, Chandigarh-160014, 9. Prof. D.K. Chattoraj, D.Sc. FNA, Jadavpur University, Calcutta-700032, 10. Prof. S. Supra Sengupta, Emeritus Professor, Dept. of Geology and Geophysics, IIT, Kharagpur, 11. Prof. S. Bhattacharya, Professor-in-Charge (Convener).

Biological Sciences Division

1. Director (Chairman), 2. Prof. A.B. Roy, Jadavpur University, Calcutta-700032, 3. Prof. Ajoy Chatterjee, University of College of Science and Technology, Calcutta-700009, 4. Prof. Anil Gupta, I.I.M., Ahmedabad, 5. Prof. B.M. Das, Dibrugarh University, Dibrugarh, 6. Prof. B.P. Chatterjee, I.A.C.S., Jadavpur, Calcutta-700012, 7. Prof. Dipika Mohanty, Institute of Immunohaematology (I.C.M.R.), Mumbai, Mumbai-400012, 8. Prof. G.S. Pallival, H.N.B. Garhwal University, Srinagar-246174, Pauri (U.P.), 9. Prof. J.C. Mishra, I.I.T., Kharagpur, Kharagpur-721302, 10. Prof. Kamala Krishnaswamy, National Institute of Nutrition (I.C.M.R.), Hyderabad 500007, 11. Prof. Mahadeb Adhikari, AE 829, Salt Lake, Calcutta-700054, 12. Prof. R.K. Mandal, Bose Institute, Calcutta-700054, 13. Prof. R.N. Joshi, Baba Sahib Ambedkar Marathwada University, Aurangabad-431004, 14. Dr. Ranjit Kumar Bhattacharya, Anthropological Survey of India, Calcutta-700007, 15. Prof. Samir Bhattacharya, Visva Bharati University, Santiniketan-721235, 16. Prof. V. Nannundiah, Indian Institute of Science, Bangalore-560012, 17. Prof. S. Matai, Professor-in-Charge (Convener).

Social Sciences Division

1. Director (Chairman), 2. Prof. Anjan Mukherjee, Jawaharlal University, New Delhi-110067, 3. Prof. K.L. Krishna, Delhi School of Economics, Delhi-110007, 4. Prof. Alok Roy, Indian Institute of Management, 5. Prof. B. Ramkrishna Reddy, Telugu University, Hyderabad - 500007, 6. Prof. Pabitra Sarkar, Rabindra Bharati University, Calcutta - 700050, 7. Prof. Ashish Bose, J-1777, Chitra Ranjan Park, New Delhi-110019, 8. Prof. K.B. Pathak, International Institute for Population Sciences, Mumbai - 400088, 9. Prof. Arun Kumar Sen, Delhi University, Delhi - 110007, 10. Prof. Amitava Chatterjee, 35, Biswanibhar Banerjee Lane, Konnagar 712235, Hooghly, 11. Prof. Barun De, Maulana Abul Kalam Azad Institute for Central Asian Studies, Calcutta-700019, 12. Prof. Ramkrishna Mukherjee, 17/3, Moore Avenue, Calcutta-700040, 13. Prof. Ananda Sen, I.G.I.D.R., Mumbai, 14. Prof. B.N. Bhattacharya, Professor-in-Charge (Convener).

Statistical Quality Control and Operations Research Division

1. Director (Chairman), 2. Mr. S.N. Ray, Department of Industries, W.B., Calcutta, 3. Mr. Tapan Mitra, Chairman, IINDAL, Calcutta, 4. Dr. S.K. Basu, I.I.M., Calcutta, 5. Mr. Dipankar Dutta Gupta, Bengali Chamber of Commerce, Calcutta, 6. Dr. S.P. Mukherjee, Calcutta University, 7. Dr. Anonim Ghosh, General Manager, Initiating Explosive System, Calcutta, 8. Sri. G. Gandhi Prasad, Whirpool Corporation, Faridabad, 9. Shri Anup Majumder, Head (Convener).

Library Documentation and Information Sciences Division

1. Director (Chairman), 2. Dr. Bhubaneswar Chakraborty, Head, Deptt. of Library and Information Sciences, Calcutta University, 3. Dr. Pulin Barua, Burdwan University, Burdwan, 4. Shri Chitrabhanu Sen, Librarian, Asiatic Society, Calcutta-700016, 5. Shri A.C. Mitra, Director, CALIBNET, Regional Computer Science Building, Calcutta-700032, 6. Prof. K.S. Raghavaan, University of Madras, Chennai-600005, 7. Shri J.C. Chowdhury, INSDOC, Calcutta, 8. Shri Chitta Bhattacharya, Chief Librarian (Convener).

INDIAN STATISTICAL INSTITUTE

SIXTYSIXTH ANNUAL REPORT : 1997-98

Part IV. Statement of Accounts and Auditors' Report for the year 1997-98

CONTENTS

	Page
Auditors' Report	1
Balance Sheet	2-3
Income & Expenditure Account	4-7
Fixed Assets : Schedule I	8-13
Fixed Assets : Schedule IA	14-18
Investment : Schedule II	19
Loans & Advances (Dr.) : Schedule III	20
Other Funds (Balance Sheet & Income & Expenditure) : Schedule IV	21
Annexure A	22
Annexure B	23
Annexure C	24
Annexure D	25
Annexure E	26
Annexure F	27
Annexure G	28
Annexure H	29
Annexure I	30
Annexure J	31
Annexure K	32
Annexure L	33
Misc. Projects—Excess of Receipts over Expenditure Vice-versa : Schedule V	34-44
Miscellaneous Projects : Appendix A1—A56	45-101
Cash & Bank Balance : Schedule VI	102
General Fund : Schedule VII	103
Deposits & Liabilities : Schedule VIII	104-105
Income and Expenditure in respect of Capital Expenditure Grant received from Govt. of India : Schedule IX	106
Statement of Excess of Expenditure over Receipts in respect of Non-plan Revenue Expenditure Grant Schedule IX A	107
Statement of Excess of Receipts over Expenditure in respect of plan Revenue Grant Schedule IX B	108
Statement of Excess of Expenditure over Receipts in respect of Plan Revenue Grant Schedule IX C	109

	Pag
Statement of Excess of Receipts over Expenditure in respect of Grant	
received from Govt. of India (Non-Plan) as on 31.3.98	
Schedule IX D	110
Notes on Account : Schedule X	111-114
I.S.I.—C.P.F. and G.P.F. : Auditors' Report	116
I.S.I.—C.P.F. : Balance Sheet	116-119
I.S.I.—C.P.F. : Income & Expenditure Account	120-121
I.S.I.—G.P.F. : Balance Sheet	122-123
I.S.I.—G.P.F. : Income & Expenditure Account	124-125
I.S.I.—C.P.F. & G.P.F. Notes on Accounts	126-127
I.S.I.—Publication & Printing Unit : Auditors' Report	128
I.S.I.—Publication & Printing Unit : Balance Sheet	129
I.S.I.—Publication & Printing Unit : Income & Expenditure Account	130
I.S.I.—Publication & Printing Unit : Schedule I	131-132
I.S.I.—Publication & Printing Unit : Schedule II	133
I.S.I.—Publication & Printing Unit : Schedule III	134
I.S.I.—Publication & Printing Unit : Schedule IV	135-136
I.S.I.—Publication & Printing Unit P. F. Auditors' Report	137
I.S.I.—Publication & Printing Unit P.F. : Balance Sheet	138-141
I.S.I.—Publication & Printing Unit P.F. : Income & Expenditure Account	142-143
I.S.I.—Canteen : Auditors' Report	144
I.S.I.—Canteen : Balance Sheet	145
I.S.I.—Canteen : Income & Expenditure Account	146
Annexure : Auditors' Observations	147-165

INDIAN STATISTICAL INSTITUTE

Part IV Statement of Accounts and Auditors' Report for the year 1997-98

AUDITORS' REPORT

We have audited the attached Balance Sheet of Indian Statistical Institute as at 31st March, 1998 and the annexed Income & Expenditure Account for the year ended on that date

The Balance Sheet and the Income & Expenditure Account as referred to above and as produced before us for verification are in agreement with the books of accounts and records maintained by the Institute.

Special attention is invited to Schedule X, Note 1-Fixed Assets, Note 4- Loans and Advances, Note 5 I Additional D A Deposit, Note 7 I Medical Reimbursement, Note 7 J Bonus and a portion of D A and our observations in the Annexes forming part of this Report

Subject to the above, in our opinion and according to the information and explanations given to us, the said accounts read with the Notes on Accounts (Schedule X) give a true and fair view

- i) in the case of Balance Sheet, of the state of affairs of the Institute as at 31st March, 1998
- ii) in the case of Income & Expenditure Account of the excess of Expenditure over Income of the Institute for the year ended on that date.

For B. CHHAWCHHARIA & CO
Chartered Accountants

S.K. Chhawchharia
Partner

75, Park Street
Calcutta-700016
24th September 1998

INDIAN STATISTICAL INSTITUTE

BALANCE SHEET

As at 31st March 1997 Rs. P	Fund and Liabilities	Rs. P.	As at 31st March 1998 Rs. P
362,535,833.37	1. GENERAL FUND As per Schedule VII		431,444,204.81
73,524,801.40	2. OTHER FUNDS As per Schedule IV Contra (excluding Director's Contribution Fund, ISI Contributory Provident Fund and General Provident Fund)		82,564,154.12
720,000.00	3. GRANT-IN-AID FOR FLOOD ADVANCE TO STAFF As per last account		720,000.00
8,414,628.71	3.1 GRANT-IN-AID FOR HOUSE BUILDING ADVANCE TO STAFF As per last account Add. received during the year	6,850,000.00 500,000.00	
		7,350,000.00	
	3.2 INTEREST ON HOUSE BUILDING ADVANCE REALISED FROM STAFF	1,975,657.49	9,325,657.49
	3.3 CONVEYANCE ADVANCE		500,000.00
20,919,124.32	4. DEPOSITS AND OTHER LIABILITIES As per Schedule VIII		74,495,233.31
81,058,534.1	ADDITIONAL EMOLUMENTS COMPULSARY DEPOSIT		81,058.53
519,281.50	5. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF PLAN REVENUE GRANT As per Schedule IXB		519,281.50
3,140,545.16	6. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF MISC. PROJECT ACTIVITIES As per Schedule V		6,983,852.85
123,068.58	7. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF GRANT RECEIVED FROM GOVERNMENT OF INDIA (NON-PLAN) As per Schedule IXD		1,066.69
2,018,571.66	8. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF PLAN CAPITAL As per Schedule IX		114,011.10
	9. NOTES ON ACCOUNTS As per Schedule X enclosed		
<u>471,996,513.23</u>			<u>606,748,520.20</u>

75 Park Street,
Calcutta-700016
24 September 1998

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

INCOME AND EXPENDITURE ACCOUNTS

PREVIOUS YEAR		EXPENDITURE	CURRENT YEAR	
PLAN RS P	NON-PLAN RS P		PLAN RS P	NON-PLAN RS P
SALARY AND ALLOWANCES				
822,210.00	118,917,935.77	1 Salary & Allowances	1,810,150.00	153,815,666.61
--	17,944,456.88	1.1 Pension graded relief & commuted value of Pension		27,220,573.82
338,370.00	1,192,888.14	2 Overtime Allowances	614,140.00	1,488,019.28
--	36,091.00	3 Children Education Allowance		34,410.00
--	902,910.23	4 Employer's Contribution to Provident Fund		1,881,477.40
--	4,340,485.93	5 Gratuity Payment		4,743,188.26
431,850.00	287,091.50	6 Visiting Professors, Foreign Scientists, Fellows etc.	539,150.00	287,122.28
73,500.00	5,727,365.16	7 Scholarship Stipend and other assistance to trainees	62,190.00	5,419,319.35
NON-SALARY ITEMS				
--	1,376,245.05	8 Leave Travel Concession		1,085,537.08
117,050.00	2,827,440.75	9 Medical Reimbursement and Welfare to Staff Students, Research Scholars etc.	220,100.00	2,833,330.00
603,720.00	2,171,554.80	10 Travelling Expenses	2,532,570.00	1,791,338.89
330,110.00	798,179.70	11 Printing and Publication	410,820.00	770,558.18
412,735.00	335,742.78	12 Society type activities Seminar and Conference etc.	484,100.00	221,600.48
8,376,105.00	8,838,162.26	13 Books Journals, etc.	9,010,490.00	7,169,483.36
2,055,670.00	3,521,695.58	14 Repairs, Replacement and Maintenance of Office Equipment, Computers and accessories etc.	4,543,155.00	3,551,210.52
2,015,680.00	4,454,634.32	15 Stationeries Consumable Stores, Advertisement, Insurance, Labour charges, conveyance Examination expenses and petty expenses	3,361,410.00	4,234,182.08
17,177,000.00	173,672,679.87		23,588,275.00	216,558,999.67

FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR				INCOME	CURRENT YEAR				
PLAN		NON-PLAN			PLAN		NON-PLAN		
RS	P	RS	P		RS	P	RS	P	
				1	Grant-in-Aid from Government of India				
162,695,000	00			1	For Non-Plan Current Expenditure			724,605,000	00
		500,000	00		Less: Earmarked for House Bldgs Loan				500,000
		1,200,000	00		Less: Grant to ISI P.P. Unit				1,200,000
		180,895,000	00		Less: Grant for Conveyance Advance				500,000
								222,405,000	00
12,417,800	00			2	For Plan Current Expenditure			30,700,000	00
				.1	In respect of SQC training fees etc	4,845,826	97		
700,000	00				Less: Transferred to SOC Dev. Fund	4,145,626	97		700,000
				2	Internal Receipts				
		83,810	00	(a)	Membership Fees				1,119
		1,078,382	00	(b)	Fees for Training course and sale proceeds of Syllabus etc				1,280,346
		10,820	00	(c)	Examination Fees & other receipts				11,164
		22,339	31	(d)	Receipts from sale of farm products at Gendin				32,800
		58,520	00	(e)	Service charges for work done by Psychiatry and Computer Sc. Unit				48,640
		2,789,138	55	(f)	Miscellaneous Receipts				3,616,637
				3	Excess of Expenditure over Income transferred to Balance Sheet			21,285	00
								31,775	58
22,417,800	00	185,717,810	56					30,721,265	00
					Carried over			228,178,902	09

INDIAN STATISTICAL INSTITUTE

INCOME EXPENDITURE ACCOUNTS

PREVIOUS YEAR				EXPENDITURE	CURRENT YEAR			
PLAN		NON-PLAN			PLAN		NON-PLAN	
RS	P	RS	P		RS	P	RS	P
17,177,000.00		173,672,679.87		Brought Forward	23,588,275.00		216,568,869.69	
731,205.00		1,748,421.51	16	Postage and Telephone	944,810.00		1,216,471.92	
2,373,550.00		4,525,944.22	16.1	Electricity charges	3,657,400.00		4,520,366.46	
..		51,362.00	17	Audit Fees and Expenses			50,265.94	
..		134,158.95	18	Interest and Bank charges			228,826.82	
..		1,587,933.48	17	House Rent and Taxes			1,829,413.03	
			20	Repair and Maintenance of Building and other Property Construction etc.			1,728,851.03	
419,170.00		562,993.60	21	Transport Expenses	596,050.00		781,871.21	
230,540.00		803,802.22	22	Workers' and Students' Welfare and amenities (excluding medical expenses)	260,740.00		886,201.12	
1,462,810.00		476,872.34	23	Laboratory and Reprography Stores, consumables, Tools and Minor Accessories	1,662,190.00		338,621.20	
20,550.00		29,519.17	24	Expenditure of Gurdh Agricultural Farm	21,810.00		28,185.20	
..			25	Expenses for National Professor			1,962.21	
3,975.00		122,517.01	26	Excess of Income over Expenditure transferred to (Balance Sheet)				
22,417,800.00		185,717,910.86			30,721,265.00		228,178,821.14	

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

75 Park Street
Calcutta - 700016
24 September 1998

THE YEAR ENDED 31ST MARCH 1988

PREVIOUS YEAR			INCOME	CURRENT YEAR			
AMOUNT	NON-PLAN			PLAN		NON-PLAN	
RS	RS	P.	RS	P.	RS	P.	
2,417,800.00	185,717,910.86	Brought Forward			30,721,265.00	228,178,902.08	

2,417,800.00 185,717,910.86

30,721,265.00 228,178,902.08

Anup Majumdar
In-Charge
Administration and Finance

S B Rao
Director

This is the Income and Expenditure account referred to our Report of even date.

For B Chavchhane & Co.
Chartered Accountants

S K Chavchhane
Partner

INDIAN STATISTICAL INSTITUTE
 SCHEDULE I
 Schedule of Fixed Assets as on 31st March 1998
 (Acquired upto 31st March 1986 for which Depreciation provided
 Except on Land and Land Development)

Sl No.	Particulars	Written down Value as on 1st April 1997	Deletions/ Adjustment made during the Year	Value as on 31st March 1998
(1)	(2)	(3)	(4)	(5)
A	Land and Land Development			
1.	Calcutta			
1	At 153 Gopal Lal Tagore Road (adjoining 203 B T Road)	65,545.98		65,545.98
2	Development of above Land	40,524.76		40,524.76
3	At 205 B T Road (including cost of Development)	422,906.70		422,906.70
4	At 156, 164, 165&161/1 GLT Rd.	96,663.71		96,663.71
5	Development of above lands	6,618.51		6,618.51
6	At 206 B T Road (including cost of Development)	2,136,174.64		2,136,174.64
7	At 202 B T Road	579,104.75		579,104.75
8	At 203 B T Road	97,556.95		97,556.95
9	At Bidyatan Sarani	50,000.00		50,000.00
10	169 G L T Road	103,855.00		103,855.00
2	Girdih			
1	Farm Land	24,175.67		24,175.67
2	Development and Fencing	114,171.40		114,171.40
3	Farming Development	10,882.00		10,882.00
4	Irrigation and Water Supply	28,215.00		28,215.00
5	In Village 'Mkakatpur' Girdih	134,636.67		134,636.67

Schedule 1 Contd.

6	Purchased from Smt. Prakriti Devi Gangapadhyay	14,000.00		14,000.00
7	Rose Villa	107,502.72		107,502.72
6	Biroja Kutir	7,445.19		7,445.19
3	Delhi.			
1	Leave-Hold(see note (a) below)	2,472,764.12		2,472,764.12
2	Development of above land	90,967.57		90,967.57
4	Baroda	27,611.32		27,611.32
5	Bagalore(see note (b) below)	427,568.78		427,568.78
6	Hyderabad	114,385.00		114,385.00
7.	Madras	71,562.50		71,562.50
8	Takda Planters Club(Lease hold Dargeeling(see note (c) below)	10,109.64	481.42	9,628.22
Sub Total		7,254,748.50	481.42	7254267
Buildings				
1	Calcutta			
1	Partly at 203 B T Road and partly at 153 G L T Road	593,919.51		593,919.51
2	At 153 G L T Road	719,183.45		719,183.45
3	At 205 B T Road	1,523,510.85		1,523,510.85
4	At 206 B T Road	54,335.67		54,335.67
5	Boys Hostel at 206 B T Road	2,040,752.07		2,040,752.07
6	At 202 B T Road	45,002.60		45,002.60
7	Purchase of flats of Palpara Housing	238,094.84		238,094.84

Schedule 1 Contd.

.8	Composite Library Building at 202 B T Road	6,627,120.14	6,627,120.14
.9	Boundary Wall	43,228.56	43,228.56
.10	Generators House at 203 BT Rd.	23,489.58	23,489.58
.11	At 169 G L T Road	14,160.70	14,160.70
.12	At Bidyatan Sarani, Baranagar	6,814.62	6,814.62
2.	Girijih		
.1	Rose Villa	233,311.12	233,311.12
.2	Health Home(see note(d)below)	9,194.39	9,194.39
3	Delhi Construction	8,458,563.82	8,458,563.82
.4	Hyderabad Wall	1,187.26	1,187.26
5	Boundary Wall at Baroja	62,341.11	62,341.11
Sub-Total:		20,694,210.29	20,694,210.29
C.	Sheds and Structures:		
1	Calcutta		
1	203 B T Road and 153 GLT RD	20,372.87	20,372.87
.2	At 205 B T Road	46,459.25	46,459.25
.3	At 156, 164, 165&166/1 GLT Rd.	12,484.27	12,484.27
.4	At 202 B T Road	105,420.98	105,420.98
5	At 5 R N Tagore Rd. for(UNTAA) Workshop situated on rental Premises	73,239.40	73,239.40
6	Car Shed at 169 G L T Road	55,919.72	55,919.72
7.	Staff Quarter at Bidyayatan Sarani	221,739.53	221,739.53

Schedule 1 Contd.

8	Students Hostel at 206 B T Rd.	29,668.22	29,668.22
9	Post Office at 204 B T Road	123.17	123.17
10	Bidyayatan Sarani, Baranagore	320.22	320.22
11	Construction of Security Goomty	34,220.00	34,220.00
12	Construction of Rest Room for Pump Operator	9,859.43	9,859.43
2	Giridih:		
1	Petty Construction	93,462.39	93,462.39
2	Staff Quarters	177,282.98	177,282.98
3	Farm's Wall	1,830.24	1,830.24
3	Delhi :		
1	Panilions, Structures etc.	26,642.83	26,642.83
2	Hut for a Chowkidar	409.35	409.35
3	Boundary Wall	19,772.68	19,772.68
4	Road Construction	13,322.84	13,322.84
5	Hyderabad:		
	Hut for Chowkidar	1,547.18	1,547.18
6	Bangalore:		
	Temporary Structures(Office Shed)	29,208.87	29,208.87
Sub-Total:		973,306.42	973,306.42
D	Machinery Equipment:		
1	Calculating and other Tabulating Equipment	315,026.76	315,026.76
2	Other Machinery and Equipment	896,219.22	896,219.22
3	Workshop Machinery and Equipment	2,624.13	2,624.13
4	Microfilm Photo, Reprography and optical equipment	496,667.46	496,667.46

Schedule 1 Contd.

5	Laboratory equipment	2,410,192.34	2,410,192.34
6	Construction equipment	6,147.74	6,147.74
7	UNTAA Workshop Machinery and Equipment	2,740.99	2,740.99
8	Mini Computer at Delhi&Madras	92,176.24	92,176.24
9	Electronic Computer at Baranagore	890,997.24	890,997.24
10	Honeywell Computer(H-400)	24,216.85	24,216.85
Sub-Total:		5,137,008.97	5,137,008.97
E	Passenger Lift	12,602.03	12,602.03
F	Electrical Equipment and Installations:		
1	High tension Electricity	136,447.73	136,447.73
2	Electrical Equipment&Fittings	2,332,989.93	2,332,989.93
3	High Tension Electricity for UNTAA Workshop	8,726.83	8,726.83
4	Electncal Installation for Flume Lab.	5,146.50	5,146.50
5	Equipment for air conditioning for Composite Lib. Bldg.	302,225.06	302,225.06
6	Electncal Installation and Fittings for Comp. Lib. Bldg.	297,599.48	297,599.48
7	Electncal Installations and Fittings for Boys Hostel at 206 B T Road	75,696.93	75,696.93
Sub-Total:		3,158,832.46	3,158,832.46
G.	Furniture & Fittings	3,218,404.96	3,218,404.96
H. 1	Books and Journals	16,816,319.90	16,816,319.90
2	Books and Journals acquired out of Ford Foundation Grant	45,483.85	45,483.85

Motor Car Vehicles	812,086.41	812,086.41
Library Equipment (including equipment procured through from Foundation Grant and Rockefeller Foundation Grant)	16,487.62	16,487.62
Water Supply Arrangement	437,890.40	437,890.40
Overbridge: Calcutta	2,144.46	2,144.46
Soviet Printing Machine	138,604.25	138,604.25
S R C Equipment	14,549.18	14,549.18
F A I Project Equipment	480.24	480.24
Investigation of Statistical problem connected with sediment Transportation Project:		
Laboratory equipment acquired out of grant from National Science Academy	5,806.05	5,806.05
PABX Installation: Delhi	12,823.96	12,823.96
PABX Installation: Calcutta	134,559.09	134,559.09
Internal Telephone, Calcutta	577.04	577.04
Survey Research Methodology Project		
Calculating equipment acquired out of Grant from ICSSR	314.28	314.28
GRAND TOTAL :	58,887,234.36	481.42 58,886,752.94

S Sengupta
Accounts
Officer

S S Panja
Accounts
Officer

Anup Majumder
In-Charge
Administration &
Finance

S B Rao
Director

21/24 Street
Calcutta 700016
31 September 1998.

For B Chhawchharia & Co
Chartered Accountants

S K Chhawchharia
Partner

INDIAN STATISTICAL INSTITUTE
SCHEDULE IA

Schedule of Fixed Assets as on 31st March 1998
(Acquired from 1st April 1986 onwards on which no depreciation)

Sl no	Particulars	Original Cost as on 14 97	Addition during the year	Deletions/ adjustment during the year	Original Cost as on 31st March 1998
(1)	(2)	(3)	(4)	(5)	(6)
1	Assets acquired out of Capital Grant				
A	Land & Land Development				
1	Calcutta				
1	Adhoc Payment for acquisition of land at Gupta Niwas	3,000,000 00			3,000,000 00
2	Campus Development	1,160,963 88	733,950 69		1,894,914 57
2	Guridih				
1	Farm Land	359,328 57			359,328 57
2	Rose Villa	363,803 74	19,410 56		383,219 30
3	Health Home	10,000 00			10,000 00
2	Bangalore	1,015,628 26	53,320 00		1,068,948 26
4	Delhi	480,536 '3			480,536 13
5	Hyderabad-boundary Wall	83,812 92			83,812 92
	Sub-Total	6,474,078.50	806,681.25		7,280,759.75
B	Buildings (Item 2.7.9 98.10 are works in Progress)				
1	Calcutta				
1	Boys Hostel at 206 B T Road	327,889 70			327,889 70
2	Composite Lib Bldg at 202 B T Road	11,285,893 97			11,285,893 97
3	Staff Quarter at Delux Garden, 169 GLT Road (1st to 4th Block)	3,555,787 57			3,555,787 57
4	Faculty Bldg at 205 B T Road	2,317,818.43			2,317,818.43
5	Administrative Bldg at 202 B T Road	4,670,595 84			4,670,595 84

Schedule 1A Contd.

6	Medical Welfare at 205 B T Road	845,700.00		845,700.00
7	Hostel Bldg.(2nd) Sr Student's Hostel	6,697,530.98		6,697,530.98
8	RTSBldg.(Renovallon)	3,735,241.01		3,735,241.01
9	ISEC Bldg.(Old Renovation)	96,636.43		96,636.43
10	Staff Quarter at Delux Garden (2nd Phase) (5th Block)	2,173,552.02		2,173,552.02
11	New Guest House at 205 n D T Road	8,759,748.41	3,100,832.00	11,860,580.41
12	Amrapali Bldg.	622,671.04		622,671.04
13	Renovallon and Face Lifting of different Promises	2,714,787.06	367,881.29	3,082,668.35
14	P C Terminal Room at various Buildings	186,353.00		186,353.00
15	A Type Off. 205 Bt Rd.		108,932.00	108,932.00
16	Academic Bldg. 202 Bt Rd.		804,660.00	804,660.00
17	Bank & P.O. Bldg. 204 Bt Rd.		656,269.00	656,269.00
18	Staff Qtr.(D Type) 6th Block		19,690.00	19,690.00
19	Canleen Bldg. 203 Bt Rd.		19,490.00	19,490.00

Schedule 1A Contd.

2. Giridih:

1	Rose Villa	267,838.32	30113.15	297,951.47
2	Health Home	3,534.12		3,534.12
3	Boundary Wall	51,579.72		51,579.72
3	Delhi:	5,221,794.65	2,323,500.00	7,545,294.65
2	Delhi(Renovation and Face Lifting)	1,336,871.18	729,088.00	2,065,959.18
4	Hyderabad	4,573,042.42		4,573,042.42
5	Bangalore:	19,578,174.95	5,003,346.00	24,581,520.95
2	Bangalore (Face Lifting of Bldg.)	753,130.11	295,797.50	1,048,927.61
Sub-Total		79,776,151.43	13,459,598.94	93,235,750.37

C Sneds and Structure:

1 Giridih:

1	Petty Construction	91,834.24		91,834.24
2	Bangalore:			
1	Temporary Structure Office shed	34,645.71		34,645.71
3	Hyderabad:	27,575.07		27,575.07
4	Delhi:	471,278.38		471,278.38
5	Calcutta:	93,936.09	126,050.26	219,986.35
Sub-Total:		719,269.49	126,050.26	845,319.75

Schedule 1A Contd.

0				
1	Office Machinery & Equipment			
1	Calculating Punching & other Tabulating equipment	254,517.80	8,701.00	263,218.80
2	Other Machinery and Equipment	3,994,331.30	503,446.00	4,497,777.30
3	Microfilm Reprography Optical	4,699,407.58	3,517,567.36	8,216,974.94
4	Laboratory Equip.	22,517,639.25	989,162.00	23,506,801.25
5	Mini Computer at Delhi & Madras	7,836,232.82	1,765,333.00	9,601,565.82
6	Electronic Computer at Baranagar	33,316,604.19	17,054,432.56	50,371,036.75
7	Mini Computer at Bangalore	4,359,438.90	2,553,919.25	6,913,358.15
	Sub-Total:	76,978,171.84	26,392,561.17	103,370,733.01
E.	Audio Visual Documentry Film on Prof.PCM	656,000.00		656,000.00
F	Busis and Status etc	200,000.00		200,000.00
G	Passenger Lift	1,151,953.66	133,300.00	1,285,253.66
H	Electrical Equipment and Installation			
1	High Tension Electricity	2,632,132.58	157,174.00	2,789,306.58
2	Electrical Equipment and Fittings	10,477,210.09	3,777,706.75	14,254,916.84

Schedule 1A Contd.

I. Furniture and Fittings	11,642,695.31	4,444,452.87	16,087,148.18
J. Motor Cars and Vehicles	2,709,960.73	2,485,321.12	5,195,281.85
K. Water Supply arrangement	3,893,692.06	70,919.80	3,964,611.86
L. PABX Installation. Calcutta	2,990,546.40	212,248.00	3,202,794.40
M. PABX Installation Delhi	404,000.50		404,000.50
N. VSAT Terminal	2,000,000.00	1,027,812.00	3,027,812.00
Total:	202,705,872.59	53,093,826.16	255,799,698.75
ii. Assets acquired out of Current Revenue Expenditure Books & Journals	90,283,696.67	15,370,974.70	105,654,671.37
Grand Total:(i)&(ii)	292,989,569.26	68,464,800.86	361,454,370.12

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In-Charge
Administration &
Finance

S B Rao
Director

For B Chhawchhana & Co
Chartered Accountants

75 Park Street
Calcutta 700016.
24 September 1998

S K Chhawchharia
Partner

INDIAN STATISTICAL INSTITUTE
SCHEDULE II
SCHEDULE OF INVESTMENT AND INTEREST ACCRUED AS ON 31ST MARCH 1998

PARTICULARS	INVESTMENT		ACCRUED INTEREST		TOTAL	
	RS	P	RS.	P	RS	P
1 FIXED DEPOSIT WITH						
1 UNITED BANK OF INDIA	2,820,000.00		79,142.00			
2 ALLAHABAD BANK	600,000.00		9,902.00			
	<u>3,420,000.00</u>		<u>89,044.00</u>			<u>3,509,044.00</u>

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anus Majumder
In-Charge
Administration &
Finance

S. B. Rao
Director

For B Chhawchhara & Co.
Chartered Accountants

¹⁹ Park Street,
Calcutta-700016
²⁴ September 1998

S K Chhawchhara
Partner

INDIAN STATISTICAL INSTITUTE
SCHEDULE III
LOANS AND ADVANCES AS AT 31ST MARCH 1998

Previous Year	Particulars	Current Year
30,848.34	Advances for land	30,848.34
231,966.71	Security deposit paid	231,966.71
81,350.80	Sundry Debtors Party in recoverable	81,350.80
5,807,287.00	Charges prepaid	9,934,231.63
3,592,630.00	Marginal Deposit	19,429,300.00
350.00	Students Benefit Fund	350.00
3,171.71	CTD (Gindih & Delhi)	3,171.71
892.00	Educational Loan	892.00
42.00	House Building loan(Old)	42.00
46,583.64	Relief (Flood & draught)	46,283.64
657,554.64	Advance against T.A.	796,527.40
315,315.22	Advance Against LTC	1,116,897.22
4,789.96	Fan advance	4,429.96
41,467.15	Advance against purchase of Cycle & Scooter	772,811.36
706,158.78	Suspense & Advance(Staff & Other)	1,488,668.64
5,614,965.71	Suspense and Advance (Party)	6,218,104.91
753,434.50	Festival Advance to staff	920,763.50
13,500.00	Departmental Imprest	42,000.00
60.41	Loan to/From Funds	
31,464.90	Group Insurance(Br Except Delhi&Gindih)	6,171.90
215,601.42	ISI UEA Collaborative Project	221,008.27
0.00	Staff insurance Premium(Cal)	-
46,988.56	ISI Co-operative Cr. Society Ltd.	-
0.00	CTD ISI PPU	4,450.00
4,800.00	Staff Insurance Premium(PPU)	9,250.00
	ISEC(UNDP) STAT-OPERATION	29,592.00
<hr/>		
18,201,223.45		41,387,111.99
<hr/>		

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In-Charge
Administration&Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24September 1998

S K Chhawchharia
Partner

INDIAN STATISTICAL INSTITUTE

SCHEDULE IV

LIABILITIES AND ASSETS OF OTHER FUNDS AS ON 31ST MARCH 1998

LIABILITIES RS P	ANNEXURE	NAME OF FUND	ANNEXURE	ASSETS RS P
50,633,772.47	A	1 STATISTICAL QUALITY CONTROL DEV FUND	A	50,633,772.47
2,990,003.50	B	2 DEVELOPMENT FUND	B	2,990,003.50
74,276.45	C	3 MAHALANOBIS INTERNATIONAL SYMPOSIUM ON STATISTICS PRIZE FUND	C	74,276.45
60,167.54	D	4 DANIEL THORNER MEMORIAL FUND	D	60,167.54
28,808.76	E	5 ENDOWMENT FUND FOR LECTURE IN ECONO	E	28,808.76
39,913.83	F	6 INDIAN STATISTICAL INSTITUTE ALUMNI ASSOCIATION PRIZE FUND	F	39,913.83
44,595.77	G	7 HALDANE PRIZE FUND	G	44,595.77
740,936.48	H	8 PROF. P. C. MAHALANOBIS CHAIR/ FELLOWSHIP FUND	H	740,936.48
84,723.50	I	9 RAJA RAO MEMORIAL FUND	I	84,723.50
120,870.00	J	10 M. N. MURTHI MEMORIAL FUND	J	120,870.00
27,505,510.82	K	11 PROJECT SETTING UP A PLAN AND POLICY RESEARCH UNIT AT THE ISI NEW DELHI	K	27,505,510.82
240,575.00	L	12 AMBARNATH-SHANTI GHOSH ENDOWMENT F	L	240,575.00
82,564,154.12				82,564,154.12

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In - Charge
Administration and Finance

S B Rao
Director

75 Park Street,
Calcutta-700016
24 September 1998

For B Chhawchharia & Co.
Chartered Accountants

S K Chhawchharia
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE A

(ANNEXURE A, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "STATISTICAL QUALITY CONTROL DEVELOPMENT FUND" AC NO. 680-689
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
	TO COMPUTER CONSUMABLES & REVENUE EXPENDITURE	553,606.86	1,770,332.29	BY INTEREST ON INVESTMENT	2,266,833.50
159,100.25					
	EXCESS OF INCOME OVER EXPENDITURE	1,713,224.64			
1,611,232.04					
1,770,332.29		2,266,833.50	1,770,332.29		2,266,833.50

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
38,335,332.94	FUND AS PER LAST ACCOUNT	44,774,920.86	15,291,186.14	1 FIXED ASSET	19,702,677.81
	ADD EXCESS OF INCOME OVER EXPENDITURE	1,713,224.64	14,147,000.00	2 INVESTMENT IN FIXED DEPOSIT	18,147,000.00
1,611,232.04				3 CURRENT ASSETS	
	ADD EXCESS OF RECEIPTS OVER RS 7,00,000.00 TRANSFERRED FROM CURRENT EXPENDITURE ACCOUNT	4,145,626.97	340,123.00	1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	424,314.00
4,828,355.88			14,996,611.72	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	12,359,780.66
44,774,920.86		50,633,772.47	44,774,920.86		

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In - Charge
Administration & Finance

(S. B. Rao)
Director

For B.C. For B Chhavchharna & Co
Chartered Accountants

75 Park Street,
Calcutta-700016,
24 September 1998

S K Chhavchharna
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE B

(ANNEXURE B FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "DEVELOPMENT FUND" A/C NO 660-669
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1990

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
201 683 11	TO EXCESS OF INCOME OVER EXPENDITURE	250,454 00	201 683 11	BY INTEREST ON INVESTMEN	250 454 00
201 683 11		250,454 00	201 683 11		250 454 00

BALANCE SHEET AS AT 31ST MARCH 1990

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
2,067,873 21	FUND AS PER LAST ACCOUNT	2,416,384 32		1 FIXED ASSET	
201 683 11	ADD EXCESS OF INCOME OVER EXPENDITURE	250 454 00	2,012,000 00	2 INVESTMENT IN FIXED DEPOSIT	2,012,000 00
	ADD DURING THE YEAR		43,034 90	3 CURRENT ASSETS	
152,028 00	1 SHARE OF OVERHEAD CHARGES FROM EXTERNALLY FUNDED PROJECT	323,165 18	361 350 32	1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	40 428 00
	2 SHARE OF OVERHEAD CHARGES FROM EXTERNALLY FUNDED PROJECT			2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	937,575 50
5 200 00	LESS FUND PROVIDED TO ACQUIRE ASSET ON A C.S.I.R. PROJECT A/C NO 209				
2,416 384 32		2,990 003 50	2,416 384 32		2,990 003 50

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In-Charge
Administration & Finance

S B Rao
Director

For B Chhavchhana & Co
Chartered Accountants

75 Park Street
Calcutta - 700 016
24 September 1990

S K Chhavchhana
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE C

(ANNEXURE C, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "MAHALANOBIS INTERNATIONAL SYMPOSIUM ON STATISTICS PRIZE FUND" A.C. NO. 070-079
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
745 00	TO EXPENDITURE FOR PRIZE		6,687 33	BY INTEREST ON INVESTMENT	7,388 74
	TO EXCESS OF INCOME OVER EXPENDITURE	7,388 74			
5,952 33					
6,687 33		7,388 74	6,687 33		7,388 74

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
60,935 36	FUND AS PER LAST ACCOUNT	66,887 71		1 FIXED ASST	
	ADD EXCESS OF INCOME OVER EXPENDITURE	7,388 74	61,000 00	2 INVESTMENT IN FIXED DEPOSIT	61,000 00
5,952 33				3 CURRENT ASSETS	
			1,142 00	1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	1,142 00
				2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	12,163 66
66,887 71		74,276 45	66,887 71		74,276 45

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In-Charge
Administration & Finance

S B Rao
Director

75 Park Street
Calcutta-700016
24 September 1998

For B Chhavchharia & Co
Chartered Accountants

S K Chhavchharia
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE D

(ANNEXURE D, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "DANIEL THORNER MEMORIAL FUND" A/C NO 871
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

CURRENT YEAR RS P	EXPENDITURE	CURRENT YEAR		PREVIOUS YEAR		INCOME	CURRENT YEAR	
		RS	P	RS	P		RS	P
3000 00	TO HONORARIUM/TRAVELLING			6029 61		BY INTEREST ON INVESTMENT		6,451 25
	TO EXCESS OF INCOME OVER							
325 61	EXPENDITURE	6,451 25						
2029 61		6,451 25		6,029 61				6,451 25

BALANCE SHEET AS AT 31ST MARCH 1998

CURRENT YEAR RS P	LIABILITIES	CURRENT YEAR		PREVIOUS YEAR		ASSETS	CURRENT YEAR	
		RS	P	RS	P		RS	P
5068 68	FUND AS PER LAST ACCOUNT	53,716 29				1 FIXED ASSET		
	ADD EXCESS OF INCOME OVER					2 INVESTMENT IN FIXED		
3029 61	EXPENDITURE	6,451 25		50,000 00		DEPOSIT		50,000 00
						3 CURRENT ASSETS		
						1 INTEREST ACCRUED BUT NOT		
						DUE ON FIXED DEPOSIT	810 00	810 00
						2 BANK BALANCE FORMING PART		
						OF INSTITUTE'S CASH & BANK		
						BALANCE WITH SCHEDULE VI	2,906 20	9,357 54
53,716 29		60,167 54		53,716 29				60,167 54

S. Gupta
 Treasurer Officer

S. S. Paria
 Account Officer

Anup Measurder
 in-Charge
 Administration & Finance

S. B. Rao
 Director

F. B. Chinnachari & Co
 Chartered Accountants

3 Pan Sreet
 New Delhi-110016
 Telephone 1554

S. K. Chinnachari
 Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE E

(ANNEXURE E, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 ENDOWMENT FUND FOR LECTURE OF ECONOMICS A/C NO 870
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
2,238.00	TO EXCESS OF INCOME OVER EXPENDITURE	2,721.74		2,238.00	BY INTEREST ON INVESTMENT 2,721.74
2,238.00		2,721.74	2,238.00		2,721.74

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
23,849.02	FUND AS PER LAST ACCOUNT	26,087.02		1 FIXED ASSET	
2,238.00	AND EXCESS OF INCOME OVER EXPENDITURE	2,721.74	24,000.00	2 INVESTMENT IN FIXED DEPOSIT	24,000.00
			146.00	3 CURRENT ASSETS 1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	125.00
			1,941.02	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	4,883.76
26,087.02		28,808.76	26,087.02		28,908.76

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumdar
In-Charge
Administration & Finance

S B Rao
Director

Fai B Chhavchharia & Co
Chartered Accountants

75 Pais Street,
Calcutta-700016
24 September 1998

S K Chhavchharia
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE F

(ANNEXURE F, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "INDIAN STATISTICAL INSTITUTE ALUMNI ASSOCIATION PRIZE FUND" A/C NO 872
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
2 971 95	TO EXPENDITURE FOR PRIZE MEDAL		4 177 74	BY INTEREST ON INVESTMENT	4 275 24
1 205 79	TO EXCESS OF INCOME OVER EXPENDITURE	4 275 24		EXCESS OF EXPENDITURE OVER INCOME	
4 177 74		4 275 24	4 177 74		4 275 24

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
35 559 00	FUND AS PER LAST ACCOUNT	36 825 20		1 FIXED ASSET	
	LESS LOAN REFUND	1 186 61	35 000 00	2 INVESTMENT IN FIXED DEPOSIT	35 000 00
		35 638 59			
1 205 79	EXPENDITURE	4 275 24	699 00	3 CURRENT ASSETS	
				1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	678 00
60 41	ADD LOAN FROM THE INSTITUTE		1 126 20	2 LOAN REFUND TO INSTITUTE	
				3 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	4 235 82
36 825 20		39 913 83	36 825 20		39 913 83

S Sengupta
Accounts Officer

S S Panja
Account Officer

Anup Majumder
In-Charge
Administration & Finance

S B Rao
Director

For B Chhachhiana & Co
Chartered Accountants

75 Park Street
Calcutta 700016
24 September 1998

S K Chhachhiana
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE G

(ANNEXURE G, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "HALDANE PRIZE FUND" A/C NO 873
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1968

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
3,254 50	TO EXCESS OF INCOME OVER EXPENDITURE	3,959 75	3,254 50	BY INTEREST ON INVESTMENT	3,959 75
3,254 50		3,959 75	3,254 50		3,959 75

BALANCE SHEET AS AT 31ST MARCH 1968

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
27,432 72	FUND AS PER LAST ACCOUNT	40,636 02		1 FIXED ASSET	
3,254 50	ADD EXCESS OF INCOME OVER EXPENDITURE	3,959 75	25,000 00	2 INVESTMENT IN FIXED DEPOSIT	35,000 00
9,948 80	ADD TRANSFERRED FROM HALDANE CENTENARY CELEBRATION PROJECT A/C NO 224 OF SCHEDULE V		1,836 00	3 CURRENT ASSETS 1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	651 00
			13,800 00	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	8,938 00
40,636 02		44,595 77	40,636 02		44,595 77

S Sengupta
Accounts Officer

S S Panja
Account Officer

Anup Majumdar
In-Charge
Administration & Finance

S B Rao
Director

For B Chhanchharia & Co
Chartered Accountants

75 Park Street,
Calcutta-700016
24 September 1968

S h Chhanchharia
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE H

(ANNEXURE H, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "PROF. P. C. MAHALANOBIS CHAIR/FELLOWSHIP FUND" A/C NO. 875
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
63,511 00	TO EXCESS OF INCOME OVER EXPENDITURE	71,905 00		63,511 00 BY INTEREST ON INVESTMENT	71,905 00
63,511 00		71,905 00	63,511 00		71,905 00

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
605,520 48	FUND AS PER LAST ACCOUNT	669,031 48		1 FIXED ASSET	
63,511 00	ADD EXCESS OF INCOME OVER EXPENDITURE	71,905 00	600,000 00	2 INVESTMENT IN FIXED DEPOSIT	600,000 00
			43,576 00	3 CURRENT ASSETS	
				1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	12,481 00
			25,455 48	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	128,455 48
669,031 48		740,936 48	669,031 48		740,936 48

S Sengupta
Accounts Officer

S S Panja
Account Officer

Anup Majumder
In-Charge
Administration & Finance

S B Rao
Director

For B Chhewchhava & Co
Chartered Accountants

75 Park Street,
Calcutta-700016
14 September 1998

S K Chhewchhava
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE I

(ANNEXURE I FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "RAJA RAO MEMORIAL PRIZE FUND" A/C NO. 874
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
	TO ADVERTISEMENT EXPENSES	1,800 00		7,740 50 BY INTEREST ON INVESTMENT	512 00
7,740 50	TO EXCESS OF INCOME OVER EXPENDITURE	7,300 00			
7,740 50		9,100 00	7,740 50		512 00

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
69,683 00	FUND AS PER LAST ACCOUNT	77,473 50		1 FIXED ASSET	
7,740 50	ADD EXCESS OF INCOME OVER EXPENDITURE	7,300 00	70,000 00	2 INVESTMENT IN FIXED DEPOSIT	70,000 00
				3 CURRENT ASSETS	
			161 00	1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	161 00
			7,262 50	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	7,262 50
77,473 50		84,773 50	77,473 50		84,773 50

S Sengupta
Accounts Officer

S S Panja
Account Officer

Anup Majumder
In-Charge
Administration & Finance

S B Rao
Director

For B Chhavchhania & Co
Chartered Accountants

75 Park Street,
Calcutta-700016
24 September 1998

S X Chhavchhania
Partner

INDIAN STATISTICAL INSTITUTE

ANNEXURE J

ANNEXURE J, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "M. N. MURTHY MEMORIAL FUND" A/C NO. 876
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1996

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR RS P	PREVIOUS YEAR RS P	INCOME	CURRENT YEAR RS P
13,016 00	TO EXCESS OF INCOME OVER EXPENDITURE	6,500 00	13,016 00	BY INTEREST ON INVESTMENT	6,500 00
13,016 00		6,500 00	13,016 00		6,500 00

BALANCE SHEET AS AT 31ST MARCH 1996

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR RS P	PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR RS P
101,354 00	FUND AS PER LAST ACCOUNT	114,370 00		1 FIXED ASSET	
13,016 00	ADD EXCESS OF INCOME OVER EXPENDITURE	6,500 00	100,000 00	2 INVESTMENT IN FIXED DEPOSIT	100,000 00
			6,245 00	3 CURRENT ASSETS	
				1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	6,245 00
			8,125 00	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	14,625 00
114,370 00		120,870 00	114,370 00		120,870 00

S. Jeyagoda
Account Officer

S. S. Prasad
Account Officer

Anand Mayamdar
In-Charge
Administration & Finance

S. B. Rao
Director

For B ChhaveriMansu & Co
Chartered Accountants

57th Street
Chennai-600 016
15 September 1996

S. K. ChhaveriMansu
Partner

INDIAN STATISTICAL INSTITUTE
ANNEXURE K
(ANNEXURE K FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
PROJECT-SETTING UP A PLAN AND POLICY RESEARCH UNIT AT THE ISI NEW DELHI
A.C. NO. 370A, DELHI

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS P	EXPENDITURE	CURRENT YEAR		PREVIOUS YEAR RS P	INCOME	CURRENT YEAR	
		RS P	RS P			RS P	RS P
	TO SALARY, HONORARIUM	349,197 00		2,601,094 00	BY INTEREST ON INVESTMENT		179,250 00
	TO TRAVELLING, CONVEYANCE ETC	206,618 00					
	TO BOOKS & JOURNALS	17,331 00		406,000 00	BY INTEREST & INCENTIVE ON ICICI BONDS		2,790,985 00
100,000 00	TO REPAIR & MAINTENANCE OF EQUIP & COMPUTER AND CONTINGENCIE	42,391 00		4,525 00	BY INTEREST ON SAVING BANK A.C.		115,780 00
2,943,619 00	TO EXCESS OF INCOME OVER EXPENDITURE	2,470,466 82					
3,043,619 00		3,086,003 82		3,043,619 00			3,086,003 82

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS P	LIABILITIES	CURRENT YEAR		PREVIOUS YEAR RS P	ASSETS	CURRENT YEAR	
		RS P	RS P			RS P	RS P
	FUND				1 FIXED ASSET		959,920 00
22,091,425 00	AS PER LAST ACCOUNT	25,035,044 00			2 INVESTMENT IN FIXED DEPOSIT	20,000,000 00	25,706,466 00
2,943,619 00	ADD EXCESS OF INCOME OVER EXPENDITURE	2,470,466 82			3 CURRENT ASSETS		
				501,095 00	1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT		54,500 00
				25,035,044 00	2 CASH AND BANK BALANCE		281,450 00
25,035,044 00		27,505,510 82		25,035,044 00			27,505,510 82

S Sengupta
Accounts Officer

S.S.Pang
Account Officer

Anup Moudmer
In-Charge
Administration & Finance

S B Rao
Director

For B Chhachhiana & Co
Chartered Accountants

S K Chhachhiana
Partner

75 Park Street,
Calcutta-700016
24 September 1998

INDIAN STATISTICAL INSTITUTE

ANNEXURE L

(ANNEXURE L, FORMING PART OF SCHEDULE IV OF THE ACCOUNTS OF THE INSTITUTE)
 "JANGIRNATH - SAKTI GHOSH ENDOWMENT FUND" A/C NO. 877
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 1998

PREVIOUS YEAR RS. P.	EXPENDITURE	CURRENT YEAR RS. P.	PREVIOUS YEAR RS. P.	INCOME	CURRENT YEAR RS. P.
—	TO EXPENDITURE FOR PRIZE	27,300.00	—	BY INTEREST ON INVESTMENT	27,300.00
—	TO EXCESS OF INCOME OVER EXPENDITURE	—	—		
		27,300.00	—		27,300.00

BALANCE SHEET AS AT 31ST MARCH 1998

PREVIOUS YEAR RS. P.	LIABILITIES	CURRENT YEAR RS. P.	PREVIOUS YEAR RS. P.	ASSETS	CURRENT YEAR RS. P.
213,275.00	FUND AS PER LAST ACCOUNT	213,275.00		1. FIXED ASSET	
	ADD EXCESS OF INCOME OVER EXPENDITURE	27,300.00	210,000.00	2. INVESTMENT IN FIXED DEPOSIT	210,000.00
			—	3 CURRENT ASSETS	
				1 INTEREST ACCRUED BUT NOT DUE ON FIXED DEPOSIT	—
			3,275.00	2 BANK BALANCE FORMING PART OF INSTITUTE'S CASH & BANK BALANCE WITH SCHEDULE VI	30,575.00
213,275.00		240,575.00	213,275.00		240,575.00

S Sengupta
Accounts Officer

S.S.Panigra
Account Officer

Anup Majumder
In-Charge
Administration & Finance

S. B. Rao
Director

For B Chhawchhiana & Co.
Chartered Accountants

75 Park Street
Calcutta-700016
24 September 1998

S K Chhawchharia
Partner

**INDIAN STATISTICAL INSTITUTE
SCHEDULE V**

Excess of Receipts over Expenditure (+) and Excess of
Expenditure over Receipt (-) in respect of Miscellaneous Projects
and Activities on behalf of Government of India and other Bodies
as on 31st March 1998.

Project and Activities	Excess of Receipts(+)Expenditure(-)					
	Upto 31st March 1997		for the year		Upto 31st March 1998	
	Rs.	P.	Rs.	P.	Rs.	P.
A. OTHER BODIES						
1 Regional Model for Agriculture(Delhi) As per last account	-	54,619.27	-	-	-	54,619.27
2 Computer spares project sponsored by CSIR, Government of India As per last account(Appendix-A8)	58,205.95	-	34,450.00	-	23,755.95	-
3 Study on the evaluation of Fish Yield rate Fish Farmers Development Agency As per last account	1,347.73	-	-	-	1,347.73	-
4 National nodal Centre for Fifth Generation Computer System Development FGCS, funded by Govt. of India As per last account	10,690.28	-	-	-	10,690.28	-
5 Study on the determination of survival Growth of seeds As per last account	33,690.73	-	-	-	33,690.73	-
6 Hindusthan Fertiliser Corpn. Evaluation Rainfed Farming ISI-HFCL, sponsored by Overseas Development Authority (Appendix-A35)	51,370.96	-	24,390.00	-	26,980.96	-
7 Conservancy Study of Calcutta Municipal Corporation As per last account	10,295.00	-	-	-	10,295.00	-

Schedule V Contd

8	Project of Estimation of Revenue earned and volume of Postal Traffic handled by Post Office(Delhi) (Appendix-Q1)	93,376.58	-	93,376.58
9	Perception,Performance and Potential of Dev in USRI watershed Area,Sponsored by CSIR As per last account	1,405.53	-	1,405.53
10	Studies on Tropical Boundary Layer Meteorology at Benaras,ICSSR As per last account	1,593.75	-	1,593.75
11	Book Grant from National Board of Higher Mathematics (NBHM) Funded by NBHM,DEA (Appendix-A15)	19,869.89	- 48,394.00 -	28,524.11
12	Administration of Guidance and consultancy Service in data Processing on behalf of Indian Council of Social Sience Research	5,069.10	-	5,069.10
13	ICSSR Fellowship Dr.S L Bhat	4,981.05	-	4,981.05
14	The incidence of the Child Mortality among Tribe in Madhya Pradesh,Delhi	12,399.61	-	12,399.61
15	Sickness and Exit in India Industry (New Delhi,Appendix-R1)	118,946.86	-	118,946.86
16	Matrix Spectral Theory, Delhi Atomic Energy	12,118.80	-	12,118.80
17	CSIR under Special Research Programme EMR,On Generalised inverse on Materials and appli-cation,Funded by CSIR (Appendix-V1)	102,796.75	-	102,796.75

Schedule V Contd.

18	ISI Advance Data Processing Res. Inst., Hyderabad Funded by Advance Data Pro. Res. Institute (Appendix-G1)	3,164.22	-	3,164.22
19	Central Silk Board, CSU(Cal.) As per last account	150,905.20	-	150,905.20
20	Emeritus Scientist Scheme CSIR-DDM, Prof. D Dutta Majumder Funded by CSIR (Extra Mural Res. Project (Appendix-H)	39,925.50	-	39,925.50
21	Total literacy Campaign programme As per last account	11,405.50	-	11,405.50
22	Evaluation of Attainment level of Primary School children at the end of Class IV. Sponsored by State Council of Edun. Res. & Training, Govt. of West Beng. As per last account	11,391.46		11,391.46
23	Project Procedure for spectral characterisation As per last account	16,421.48		16,421.48
24	Indian Export to the European Community construction and prospects, Funded by IDPAD(Appendix-A31)	48,361.23	- 1,389.00	46,962.23
25	FISCAL Reforms and Structural Adjustment Micro and Macro Dimension, Funded by Industrial Development Res. Centre (Appendix-N1, Delhi)	117,458.35	-	117,458.35
26	INSA SENIOR (Dr B. Ramchandran) to work on functional equation in probability Theory, Funded by Indian National Science Academic(Appendix-A41)	6,278.20	10,377.00	16,655.20

7) ICSSR Research Project Agrarian Conflict and Rural Labour pertaining to the year 31st March 1993 As per last account	250.00	-	250.00
8) NBHM Book Grant Funded by NNBHM Department of Atomic Energy (Appendix-A9)	6,500.81	- 590.00	5,910.81
9) Preparation of the State of the Art Report on Optical Character Recognition, Bangalore on behalf of CSIR	0.50	-	0.50
10) Genetics of Quantitatives Traits in Silkworm on behalf of Central Silk Board Ministry of Textiles (Appendix-L)	39.55	-	39.55
11) DST Defamation, Metamorphosis Eastern Ghat, GSU, Funded by Ministry of Science and Technology, Earth System, Science Division, Govt. of India, DST, (Appendix-A26)	7,064.78	7,092.00	27.22
12) Bayesian Non Parametric, Inference Computing, Funded by CSIR (Appendix-E)	5,876.88		5,876.88
13) Tracer study of ITI Certificate Holder into labour market on behalf of Ministry of Labour, Govt. of India Directorate General Employment & Training Centre (Appendix-A)	9,308.40		9,308.40
14) Neuro Fuzzy Recognition System etc for Forensic Application (MILU) Sponsored by CSIR (Appendix-A36)	18,578.60	- 15,280.95	4,297.65

35	Application for Recognition and Interpretation of Acoustic Radar Imagery Funded by Ministry of Science and Technology, Dept. of Science and Technology, Earth system Science Divn. Government of India (Appendix-A47)	148,716.28	144,018.00	4,698.28
36	Computerised Archeological Information, Funded by Directorate of Archeological, Government of India	199,148.00	-	199,146.00
37	Regression Methodology Stat	9,330.80	-	9,330.80
38	A study of Mathematical cal Techniques in Water Waves Problems sponsored by CSIR(PAMU) (Appendix-A44)	134.20	435.00	300.80
39	Computer spare Project (Bangalore) (Appendix A9)	17,709.00	-	17,709.00
40	Studies on PBL Dynamics, funded by Ministry of Science & Technology, Dept. of Sc. & Tech, Earth System Science Division, Government of India (Appendix-A30)	11,073.10	10,403.00	670.10
41	Enumeration of Mail through Sample Survey, Postal Project II Funded by GOI-Mini of Communication, Dept. of Post (Appendix-A38)	203,113.50	15,326.00	187,787.50
42	NBHM-DAE Lib. Grant Funded by NBHM. (Appendix-A42)	382.16	1,195.00	812.84
43	OCR Project, Technology in Building Bibliography data base funded by Dept. of Scientific and Industrial Res. (Appendix-)	14,343.70	-	14,343.70

44	SERC Summer School on Stochastic process Modelling As per last account	98,361.20 -	98,361.20 -	-
45	OBC study of some classes in West Bengal, Funded by West Bengal Commission for Backward classes (Appendix-)	28,740.75		28,740.75
46	Unsteady Surface-water waves in Ocean, funded by University Grants Commission (Appendix-A49)	3,365.40 -	18,000.00 -	21,365.40
47	Development of Statistical Techniques as an Aid to Geo Mapping, Funded by Council of Scientific and Industrial Research (Appendix-A51)	1,665.94	11,163.00	12,828.94
48	UGC Fellowship Dr.A Nirmala, Funded by University Grants Commission (Appendix- A54)	11,685.10	92,636.00	80,950.90
49	UGC Refresher Course in Statistics, Funded by University Grants Comm. (Appendix-A56)	158,244.70	196,755.30	40,510.60
50	UGC Carer Award Dr.Rahul Roy, Funded by University Grants Comm. (Appendix-A19)	43,418.80 -	8,455.00	34,961.80
51	UGC Carer Award Dr.D.Singh Funded by University Grants Commission. (Appendix-)	589.19 -		589.19
52	Development of Thin Films on behalf of Council of Scientist and Industrial Research, Govt. of India (Appendix-A7)	4,571.65	22,913.00	18,341.35
53	Patna High Court, Funded by Patna High Court (Appendix-)	143,374.85		143,374.85

54	NBHM-Olympiad awards, Department of Atomic Energy, Govt. of India, Funded by Dept. of Atomic Energy (Appendix-A11)	41,561.50	4,272.15	45,833.65
55	ISI-PCL Manpower Develop.on RDMS, on behalf of Perftech Computer Ltd. (Appendix-A25)	106,128.20 -	14,900.00	91,228.20
56	Migration in Genetic Differences amongst Mariagonda, Ministry of Science and Technology, Dept. of Sc. & Tech. Government of India (Appendix-A28)	7,072.73 -	4,593.00	2,479.73
57	Survey of the possibilities and problem of small Industries in Birbhum WB on Behalf of West Bengal Small Industries Corporation Ltd. (Appendix-)	44,088.20		44,088.20
58	Gender study on District Primary Education Programme Funded by Paschim Banga Rajya Siksha Unnayan Sanstha (Appendix-A45)	13,872.10 -	11,634.00	2,238.10
59	Large Amplitude ION & Electron Acoustic Solitary Waves in a Relativistic Plasma Funded by Ministry of Sc. & Tech Govt of India (Appendix-A46)	50,824.50 -	43,248.00	7,576.50
60	Diagnosis & Therapy planning using Multimodality Medical Imaginary Dept. of Sc. & Tech Govt of India. Funded by Dept. of Sc. & Technology (Appendix-A52)	312,502.30 -	310,310.00	2,192.30

Schedule V Contd.

61	Poverty Assessment in India Govt of India, Funded by Ministry of Planning (Appendix-A43)	150,864.00 -	63,350.00	87,514.00
62	ICSSR Fellowship Mr C. Jayal. Funded by ICSSR (Appendix-A20)	597.00	3,497.00	4,094.00
63	Globin Genes. Sponsored by Ministry of SC & Tech. Dept of Biotechnology (Appendix-A33)	253,902.62 -	181,931.63	71,970.99
64	Indepth studies on the level of Development of Sc & St. Funded by Ministry of Welfare Govt. of India(Appendix-A34)	59,143.46 -	32,000.00 -	91,143.46
65	CSIR Emeritus Scientist Dr P Bondhapadhyay (Appendix-A4)	729.00 -	590.00	139.00
66	Dev. of CAD Tools Motorola ISI Funded by Motorola Electronic & IIT(Appendix-A5)	100,000.00 -	80,208.50	19,791.50
67	INSA Secnior Scientist Prof. S Dasgupta(Appendix-A6)	12,821.00 -	1,200.00	11,621.00
68	Automatic Map Adrn (CVPR) funded by Advance Data Processing Research Institute(appendix -)	49,000.00		49,000.00
69	National Mapping of Science (Bangalore)(Appendix-A10)	8,654.20 -	30,574.00 -	21,919.80
70	Rice Based Cropping system (IRRI) Funded by International Rice Research Institute. (Appendix -A53)	57,693.59	24,640.90	82,334.49
71	INSA for C. V Raman Research Prof. K. R. Parthasarathy (Appendix-A21)	35,865.00	12,866.00	48,731.00
72	INSA Senior Scientist Scheme Dr. S. K. Mitra work to Generalized Inverse of Matrics (Appendix-A24)	2,515.00	4,929.00	7,444.00

73	NBHM TIFA Fellowship Dr.Rana Mishra(Appendix-A39)	23,617.00	-	23,501.00	16%
74	Genomic Diversity in India Population Investigation through Biotechnological Tools in Eastern India Population (Appendix-A1)	-		3,875.00	3,875.00
75	Development of Methodologies for Soft Organising Fuzzy Logic Controllers (Appendix-A2)	-		97,983.50	97,983.50
76	Bilingual (Bangla and Devnagar) OCR Systems Development (Appendix-A3)	-		169,800.00	169,800.00
77	Health Sector Reforms Patterns Funded by European Commission (Appendix-A32)	-		2,255,083.00	2,255,083.00
78	Structural and Petrological Constraints on the Evolution of the Granulite Belt Funded by Department of Sc. & Technology (Appendix-A12)	-		82,941.00	82,941.00
79	Study on Mathematical and Pro- bability Inequalities Funded by INSA (Appendix A14)	-		25,000.00	25,000.00
80	Development of a Real Time Intelligent Decision making System for RTFLEX (Appendix-A16)	-		133,215.00	133,215.00
81	Estimation of Infant & Maternal Mortality(UNICEF) Funded by United Nations Children Funded by United Nations Chil- drens Fund (Appendix-A17)	-		110,363.20	110,363.20
82	Development of Fractal Tech. for Data Images (DST) Funded by Department of Science&Technology (Appendix-A18)	-		478,434.00	478,434.00
83	ICCR Fellowship Mr Bahaddin Khaledi (Appendix-A22)	-		13,110.00	13,110.00

84	Concurrent Evaluation TLC (West Dinajpur)(Appendix-A27)	-	100,000.00	100,000.00
85	Pool Officer (CSIR) Funded by Council of Sc. & Industrial Research(Appendix-A29)	-	10.00	10.00
86	Environmental Management Capacity Funded by Ministry of Environment & Forests (Appendix-A37)	-	852,484.00	852,484.00
87	NBHM-TTER Fellowship(D.Goswami) Funded by NBHM (Appendix-A40)	-	10,668.00	10,668.00
88	Review of IPP-VIII in CMA (CMDA) Funded by Calcutta Metropolitan Development Authority (Appendix-A48)	-	46,613.00	46,613.00
89	Winter School on Human Genetics Funded by Deptt. of Biotechnology (Appendix-A50)	-	206,518.50	206,518.50
90	Research Grant on Biva Karmakar Funded by Tel Aviv University (Appendix-A55)	-	40,253.75	40,253.75
91	Tracer Study of ITI Graduates Funded by DGEFT Ministry of Labour (Appendix-A)	-	11,127.15	11,127.15
92	Cancer Management in Soft Capacity Paradigm Funded by Sc. & Technology (Appendix-A13)	-	111,433.00	111,433.00
Sub-Total A:		-	3,140,545.18	6,983,852.65
		-	333,588.86 -	255,580.18

Project and Activities	Excess of Receipts(+)Expenditure(-)		
	Upto 31st March 1997	for the year	Upto 31st March 1998
	Rs. P.	Rs. P.	Rs. P.
B. ON BEHALF OF GOVERNMENT OF INDIA			
1. ISEC Colombo Plan Fellowship			
Ex Expenditure during the			
year including refund of			
unspent Balance - 723,236.85			
Amount received/ adjusted during the Year	+ 449,983.50	-	1,018,423.16 -
		273,253.35 -	1,291,676.51
Sub Total:B:	-	1,018,423.16 -	273,253.35 - 1,291,676.51
GRAND TOTAL:	-	3,140,545.16 1,352,012.02 -	5,140,053.45 1,491,990.63 - 6,983,852.38 1,547,256.59

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In-Charge
Administration
and Finance

S B Rao
Director

For B Chhawchhana & Co.
Chartered Accountants

75 Park Street
Calcutta-700016.
24 September 1998.

S K Chhawchhana
Partner

APPENDIX-A

Statement of Income and Expenditure for the year ended
31st March 1998, in connection with the Project "Tracer
Study of ITI Graduates" funded by Directorate General
of Employment and Training (DGEFT) Ministry of Labour
Govt. Of India (Forming Part of Schedule V) A/c. 201. S. L.No.91

Expenditure	Amount	Income	Amount
To Salary & Honorarium	299,802.00	By Grant in Aid received during the year	512,000.00
* Travelling Allowances	152,942.00		
* Contingent Expenditure	35,498.00		
* Other Expenses	5,544.00		
* Transport Expenses	2,986.85		
* Stores and Stationaries	4,100.00		
* Excess of Income over Expenditure	11,127.15		
	512,000.00		512,000.00

Income during the year 1997-98	512,000.00
Expenditure during the year 1997-98	500,872.85
Total Income upto 31.3.98	512,000.00
Total Expenditure upto 31.3.98	500,872.85

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In- Charge
Administration & Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24 September 1998.

S K Chhawchharia
Partner

APPENDIX-A1

Statement of Income and Expenditure for the year ended
31st March 1998, in connection with the Project "Genomic
Diversity in Indian Populations Investigations through
Biotechnological Tools in Eastern India Population"
Funded by The Ministry of Science and Technology, Depart-
ment of Bio-Technology
(Forming Part of Schedule V) A/c.202.

Sl.NO. 74

Expenditure	Amount	Income	Amount
*To Salary & Allowances	14,900.00	By Grant in Aid received during the year	
*Contingent Expenditure	34,568.00		3,563,000.00
*Paid to Saha Inst of N Phy.	945,000.00		
*Ind. Inst. of Chem Biology	720,000.00		
*Other Expenses	37,190.00		
*Stores and Stationaries	130,369.00		
*Capital Equipment	1,487,298.00		
*Overhead Charges	189,800.00		
*Excess of Income over Expenditure	3,875.00		
	<u>3,563,000.00</u>		<u>3,563,000.00</u>

Income during the year 1997-98 3,563,000.00

Expenditure during the year 1997-98 3,559,125.00

Total Income upto 31.3.98 3,563,000.00

Total Expenditure upto 31.3.98 3,559,125.00

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In- Charge
Administration & Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24 September 1998

S K Chhawchharia
Partner

APPENDIX-A2

Statement of Income and Expenditure for the year ended
31st March 1998, in connection with the Project "Development of
Methodologies for Self Organizing Fuzzy Logic Controllers.
Funded by Ministry of Science and Technology
(Forming part of Schedule V)

Expenditure	Amount	Income	Amount
Salary & Allowances	10,393.00	By Grant in Aid received during the year	281,405.00
Contingent Expenditure	7,260.50		
Stores & Stationaries	10,163.00		
Capital Equipment	118,900.00		
Overhead Charges	36,705.00		
Excess of Income over Expenditure	97,983.50		
	281,405.00		281,405.00

Income during the year 1997-98	281,405.00
Expenditure during the year 1997-98	183,421.50
Total Income upto 31.3.98	281,405.00
Total Expenditure upto 31.3.98	183,421.50

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In- Charge
Administration & Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24 September 1998.

S K Chhawchharia
Partner

APPENDIX-A3
Statement of Income and Expenditure for the year ended
31st March 1998, in connection with the Project "Bilingual
(Bangla and Devnagari) OCR System Development"
Funded by Ministry of Science and Technology
(Forming part of Schedul V) A/c. 204.

SI NO.76

Expenditure	Amount	Income	Amount
To Salary & Honorarium	64,854.00	By Grant in Aid received during the year	
" Travelling Expenses	7,932.00		577,648.00
" Contingent Expenses	8,599.00		
" Stores & Stationaries	9,655.00		
" Capital Equipment	241,436.00		
" Overhead Expenses	75,372.00		
"Excess of Income over Expenditure	169,800.00		
	577,648.00		577,648.00

Income during the year 1997-98	577,648.00
Expenditure during the year 1997-98	407,848.00
Total Income upto 31.3.98	577,648.00
Total Expenditure upto 31.3.98	407,848.00

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In- Charge
Administration & Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24 September 1998.

S K Chhawchharia
Partner

APPENDIX A4

Statement of Income and Expenditure for the year ended
31st March 1998, in connection with the Project
Emelius Scientist Dr P Bandyopachyay, Funded by Council
of Scientific and Industrial Research (Forming part of
Schedule V)

A/c 205.

SI.NO 65

Expenditure	Amount	Income	Amount
Salary & Honorarium	60,000.00	By Grant in Aid received during the year	98,548.00
Travelling Expenditure	16,215.00		
Contingent expenses	12,423.00		
Books and Journals	9,840.00		
Stores and Stationery	660.00	* Excess of Expen- diture over Income	590.00
	<u>99,138.00</u>		<u>99,138.00</u>
Income during the year 1997-98			98,548.00
Expenditure during the year 1997-98			99,138.00
Total Income upto 31.3.98			179,378.00
Total Expenditure upto 31.3.98			179,239.00

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In-Charge
Administration & Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24 September 1998.

S K Chhawchharia
Partner

APPENDIX-A5

Statement of Income and Expenditure for the year ended
31st March 1998, in connection with the Project
Development of CAD Tools* Funded by Motorola India
Electronics Ltd.

(Forming Part of Schedule V)		A/c 206	Sl.NO 66
Expenditure	Amount	Income	Amount
To Salary & Allowances	9,107.00	By Grant in Aid received during the year	
" Contingent Expenses	1,101.50		NIL
" Capital Equipment	55,000.00	" Excess of Expen- diture over Income	₹0,208.50
" Overhead Charges	15,000.00		
	80,208.50		80,208.50

Income during the year 1997-98	NIL
Expenditure during the year 1997-98	80,208.50
Total Income upto 31.3.98	100,000.00
Total Expenditure upto 31.3.98	80,208.50

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumdar
In-Charge
Administration & Finance

S B Rao
Director

For B Chhawchharia & Co.
Chartered Accountants

75 Park Street,
Calcutta-700016.
24 September 1998.

S K Chhawchharia
Partner

APPENDIX-A6
Statement of Income and Expenditure for the year ended
31st March 1998 in connection with the Project
INSA Senior Scientist Prof. S. Dasgupta
Funded by Indian National Science Academy
(Forming part of Schedule V) A/c.207

	A/c.207		SI NO 67
Expenditure	Amount	Income	Amount
TO Salary & Allowances	60,000.00	By Grant in Aid the year	72,177.00
Contingent expenses	13,377.00	" Excess of Expen- diture over income	1,200.00
	73,377.00		73,377.00

Income during the year 1997-98	72,177.00
Expenditure during the year 1997-98	73,377.00
Total Income upto 31.3.98	157,177.00
Total Expenditure upto 31.3.98	145,556.00

S Sengupta
Accounts Officer

S S Panja
Accounts Officer

Anup Majumder
In- Charge
Administration & Finance
For B Chhawchharia & Co.
Chartered Accountants

S B Rao
Director

75 Park Street
Calcutta-700016.
24 September 1998.

S K Chhawchharia
Partner