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3. — : Some aspects of complex families in Calcutta.
4. — : Pilgrims, pilgrimage and some bio-social factors.
5. Chatterji, Bhola : Jayaprakash and violence-non-violence polemics, 1-57.
6. Chattopadhyay, M. : Labour and mode of production.
7. Ghosh, T. N. : Inter-marriage and social legislation in West Bengal.

M. Statistical Quality Control

(i) Case Studies

1. SQC application
2. Rau, Y. R. : Application of the statistical theory of tolerancing to an assembly problem.
3. — : The problem of high resistance in circuit breakers.

(ii) Reports

1. Rao, N. T. V. Ranga : Study on the causes of chronic defects in the construction of tube nests of heat exchangers at BHEL, Hyderabad.
2. — : Analysis of rotor coil failures of turbogenerators at BHEL, Hyderabad.

(iii) Technical Reports

1. Banerjee, K. K. : Attribute sampling on the basis of demerit scores.
2. — : An optimal inspection system for a paper plant.
3. — : An optimisation problem of the jute industry.
4. — : A new strategy for inventory control.
5. Iyer, V. Narayana : Cost reduction through operations research application.
6. — : Power economy in a spinning mill.
7. — : Finding an optimal mix of cattle feed by linear programming.
8. Majumdar, S. K. : A case study on multiobjective production planning in a malleable iron foundry.

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9. --- : A case study on optimum cost metal mix for hot blast furnace cupola in a spun pipe manufacturing unit.
10. --- (with Roychowdhury, S. K.) : A case study on optimum profit production planning in an aluminium foundry.
11. --- (with Roy, S.) : A case study on allocation of various slug sizes to different enterprises.
12. Mohan, S. R. : Uniqueness of solution in some non-linear programming problems.
13. Ramamurthy, K. G. : On some properties of erlangian mixtures with applications.
14. --- : A note on finite homogeneous continuous time marker chains.
15. --- : A note on the use of generalised group inverse in phase type distribution.
16. Sapre, M. N. : Use of statistical methods in reducing the consumption of costly material.
17. Venkatappaiah, J. : Reduction of coating weight on X-Ray films.
18. A study on the effect of various parameters on copper tube expansion in heat exchangers.

(iv) *Training Course Manual*

1. SQC.
2. Orthogonal array for training course on SQC & industrial experimentation.
3. Reliability and life testing.
4. Manual for three tier programme on SQC conducted for M/s. Raymond Woollen Mills Ltd. (In three volumes).
5. QC for inspectors (in Marathi) of M/s. Kirloskar Pneumatic Co.
6. Applications of orthogonal array experimentation conducted at kirloskar Pneumatic Co.
7. QC for operators (in Marathi) of M/s. Kirloskar Pneumatic Co.
8. Top management programme on QC & OA experimentation conducted at MICO, Nasik.

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9. OA experimentation conducted at MICO, Nasik.
10. SQC conducted at MICO, Nasik.
11. SQC (in Marathi) conducted at MICO, Nasik.
12. General course in SQC (in Marathi).
13. General course in SQC and reliability.
14. General course in SQC & OA experimentation.

### (v) *Training Manual*

1. Operative training programme for workmen of textile mills.

### (vi) *Write up*

1. Banerjee, K. K. : An optimisation problem of paper industry.
2. — : Optimal batch for jute manufacture.

## Part II. Convocation, Visiting Scientists, Honours and Awards, Scientific Tours and Assignments.

### 6. Fifteenth Convocation : Indian Statistical Institute.

The fifteenth Convocation of the Indian Statistical Institute, held on 31 Mar. 1981, was presided over by Shri Subimal Dutt, President of the Institute. Professor V. Ramalingaswami, Director-General, Indian Council of Medical Research and former President of the Indian National Science Academy, delivered the convocation Address on "Of Human Numbers and Human Needs". Dr. B. P. Adhikari, Director of the Institute presented the Annual Review of research, teaching and training.

Number of candidates awarded Ph.D., M.Stat. and BStat (Hons.) Degrees; Statisticians Diploma and Post-Graduate Diplomas in Applied Statistics and Certificates to Trainees at the International Statistical Education Centre, Calcutta is given below :

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| Degrees/Diplomas/Certificates  | Number of candidates |
|--|----------------------|
| Ph.D. ... ..   | 8                    |
| M.Stat. ... ..   | 33                   |
| B.Stat. (Hons.) ... ..   | 14                   |
| Post-graduate Diplomas in Applied Statistics : ... ..                    | —                    |
| A. Computer Science ... ..   | 2                    |
| B. Advanced Diploma in Computer Science ... ..                           | 8                    |
| C. (i) Statistical Quality Control and Operations Research<br>(Calcutta) | 11                   |
| (ii) Statistical Quality Control and Operations Research<br>(Delhi)      | 3                    |
| D. Statistical Quality Control and Operations Research<br>(Bombay)       | 6                    |
| E. Statistical Quality Control and Operations Research<br>(Madras)       | 9                    |
| Associateship in Documentation and Information Science<br>(Bangalore)    | 30                   |
| Professional Examination in Statistics : (i) Statisticians's Diploma     | 6                    |
| (ii) Junior Diploma in<br>Statistics                                     | 9                    |
| ISEC Regular Courses ... ..  | 22                   |
| <b>Total</b>   | <b>161</b>           |

*Annual Review by Dr. B. P. Adhikari, Director :*

Mr. President, Mr. Chairman, Professor Ramlingaswami, distinguished guests, candidates receiving degrees and diplomas, students and colleagues of the scientific disciplines and the administration, I have great pleasure in presenting to you in the following pages a brief review of the activities of the Institute since the last convocation in April 1980.

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From this review and a perusal of the more detailed Annual Report it will be seen that this has been a year of consolidation of the academic activities. As far as teaching is concerned, I may recall that, following the introduction of the 10+2 school system in the country, the Institute had converted the four-year B.Stat. degree programme into a three-year programme in 1978-79. The third year of this new programme will end in May 1981, and hence a new two year M.Stat. programme has just been adopted by the Academic Council and the Council of the Institute to be effective from July 1981.

Research and consultancy activities have proceeded vigorously. Apart from the stable lines of activity, in which significant contributions have been made by the staff and research scholars in statistics, mathematics and other disciplines, an enlargement in collaborative work has been made, particularly between statisticians and scientists of other disciplines. May I only present in brief some fields of research which have been undertaken either in collaboration with scientific institutions outside or financed by different funding organisations. For several years now, a comprehensive anthropological and human genetical work on several endogamous groups of India is going on in collaboration between our anthropologists and a team of the Institute of Ethnography of the Academy of Sciences of USSR. The first volume of a joint publication in the Russian language has appeared, and the second volume has also most probably appeared by now. Editing of the third volume is in progress. The Soviet team will visit India again during the coming winter for further field work. This continuing and painstaking work is not only providing a wealth of information on social and physical characteristics of endogamous groups, it is also leading to a mass of data which will be amenable to interesting statistical analysis and conclusions, besides the statistical analysis which is being presented in the current series of publications.

The second continuing work of collaboration is in the field of linguistics, with the Institute for Experimental Phonetics and Pathology of Belgrade, through repeated visits of Professor Djordje Kostic. As you know, through this effort not only have advanced methods of speech correction for hearing-impaired children been introduced in India, publications on the phonetic structure of several Indian languages have been made. This work also has produced a mass of data for interesting statistical analysis. Among the outside funded schemes are the following. An ILO funded village survey is well under way for the last two years. More recently, a research scheme has been undertaken on microprocessor based continuous patient monitoring systems, financed by the Electronics Commission. The ICMR has agreed to finance a study on some immunological problems in connection with Malaria, which has just been started. At the initiative of the FAO, a socio-economic survey of coastal fishermen of West Bengal is going to be undertaken by the Institute, to help in the development of small-scale fisheries of the Bay of Bengal.

The Institute attains fifty years of age in December 1981 and the Council has decided to celebrate its Golden Jubilee mainly through the organisation of scientific conferences over a period of about three months in fields in which the Institute has a record of sustained work and recognised contributions. Much work has been done in

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this matter and four conferences have been announced. The first and inaugural conference is proposed to be held at the end of December at Calcutta to review the Indian planning process. The second conference, being organised jointly with the International Federation of Information Processing, will be held at Bangalore during the first and second weeks of January 1982, on the theory and applications of random fields. A third conference, entitled Statistics : applications and new directions, will be held at Calcutta during the third week of January 1982. A fourth conference on human genetics and adaptability, scheduled for the first week of February 1982 at Calcutta, is being organised in collaboration with the Indian Society of Human Genetics and the International Association of Human Biologists. Two other conferences, one in the area of electronics and information sciences and the other in operations research, are under preparation. There is every likelihood of wide national and international participation in these conferences. Steps towards the details of the successful organisation of these conferences are being taken.

Among the conferences organised by the Institute last year, may I only mention one in honour of Dr. C. R. Rao, to felicitate him on attaining sixty years of age. This conference on Probability and Statistics was held at Delhi from 8 to 13 December 1980, in which Dr. Rao participated and which was attended by a large number of participants not only from all the centres of active statistical research in India, but also from Czechoslovakia, Democratic Republic of Germany, Japan and the U.S.A.

In the last year's review I had spoken of the need of augmented physical facilities in the Institute, particularly construction both for office and residence. At the Bangalore Centre the basic work to start construction has been done and we hope to begin actual construction soon. In Calcutta, the fifth and sixth floors of the composite library building are under construction and, when completed, will relieve us of our space requirements to some extent for scientific activities. We are almost certain of making a beginning in the construction of residential quarters for low paid workers during the coming financial year, but the scale is yet negligible compared to the needs. We are still uncertain about a hostel building for senior and international students, an administrative block, an auditorium and a canteen building. It needs to be emphasised above everything that if any institution located in a big city in India wishes to attract good scientists and preserve an all-India character of its faculty, it must be able to provide residential accommodation to them. Today it is not so much the salary offered as the impossible situation regarding rented apartments which has become a deterrent to the recruitment of good scientists. As in the Institute, many other all-India institutions are in a situation where they fail to make recruitment for this reason. In the back-ground of Government's declared policy of renewed support to science and technology, it is hoped that the problem of housing will be given proper attention. It is admitted that the Government is perforce having to operate under constrained resources, but a doubt sometimes appears in the mind whether resources are always the true constraint.

One surprising casewhere a beneficial decision is not taken even with the possibility of a reduced outlay is the proposed introduction of the Pension-cum-General

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Provident Fund-cum Gratuity scheme in the Institute instead of the prevalent contributory Provident Fund-cum-Gratuity scheme. The former scheme is practised in all Central Universities and the Institute of Technology, Besides, its introduction in the Institute will mean a reduced outlay from the Government from its present rates of contribution towards the retirement benefits of employees of the Institute. It is therefore a matter of surprise to us why Government is delaying its approval to the scheme. Let us hope that this will come soon.

One major gain in the matter of physical facilities is the acquisition by the Institute of a special electric power connection which will not be interrupted during periods of load shedding. Due to prolonged cuts in power supply our activities related to the computer, the scientific laboratories and the press suffer a great deal. We are grateful to the Chief Minister of West Bengal to have granted us the benefit of an uninterrupted power line which is in the final stages of being connected.

In conclusion, may I gratefully express my thanks to Shri Subimal Dutt, President of the Institute, and Shri P. N. Haksar, Chairman of the Institute, for their kind readiness to provide wisdom and counsel. I thank all our colleagues at different levels of scientific and administrative functions for their cooperation. I must also thank the ISI Workers' Organisation for its concern over the development and smooth functioning of the Institute and the rationality of its approach even in complex issues, which facilitates the working of the Institute.

### 7. Visiting Scientists

A number of distinguished scientists from abroad participated in the research, training and other scientific activities of the Institute during the year. Some of them came to the Institute on invitation and spent fairly long periods at the Institute to assist in the regular research and teaching programme, and some came for short periods on different assignments for giving lectures and participating in conferences and seminars.

Mr. Paul Ahmed, National Centre for Health Statistics, USA (15 January 1981)  
Discussion with Director, Dr. J. Roy and Dr. N. Bhattacharya.

Professor R. R. Bahadur, University of Chicago, USA, (December 24 1980)  
*Lecture* : Large deviations and asymptotically efficient estimation.

Dr. (Mrs.) R. A. Bailey and Dr. C. A. Bowby, Open University, U. K. (30 October 4 November 1980). *Lecture* : General factorial designs—treatment effects and confounding.

Dr. Salvador Barbara, University of Bilbao, Spain, (11 December 1980-17 January 1981), Visited the Delhi Centre under the Ford Foundation Grant. *Lecture* : Social Choice theory.

Professor A. P. Basu, Department of Statistics, University of Missouri, USA (14 September 1980-16 March 1981), *Lecture* : Bivariate exponential distributions and tests of independence.

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Professor R. N. Bhattacharya, University of Arizona, USA (10 December 1980-12 January 1981). *Lectures* : (i) Central limit theorems for diffusion processes (ii) One dimensional diffusions and the Sturm Liouville Theory.

Professor Peter J. Bickel, University of California, USA (13-18 December 1980) *Lecture* : Asymptotics of the Bootstrap.

Mr. Alexy A. Chavernov, Deputy Director, Electronic Computer, Bombay 5 February 1981). Discussion with Director.

Professor Somesh Das Gupta, University of Minnesota, USA (18 September 1980) *Lectures* : (i) Probability inequalities. (ii) To America : migration of workers of United States from peripheral capitalist countries (iii) Power functions of multivariate tests.

Professor Angus Deaton, University of Bristol, U. K. (9 January 1981) *Lecture* : Analysing the food shares in a household survey.

Professor S. K. Day, Eastern Illinois University, USA *Lecture* : A computer scheme for Non-linear system.

Mr. Jochen Fleischhacker, Scientific Assistant of Demography, Humboldt University, Berlin, German Democratic Republic (10-25 March 1981).

Mr. C. Paul Flores, Director of Analysis, State Committee of Statistics, Cuba (14 January 1981).

Professor P. Frank, C.N.R.S., Paris (26 January-6 February 1981). *Lecture* Intersection theorems for finite sets and applications.

Professor A. Friedman, Department of Mathematics, Northwestern University, Illinois, USA (4-18 November 1980). *Lectures* : (i) Stopping time problems. (ii) Problems in sequential Analysis, (iii) Variation at problems.

Mr. Ciro Gonzales, Head of Sampling Department, State Committee of Statistics Cuba. (14 January 1981).

Professor Joseph R. Gusfield, Professor and Founder of the Department of Sociology, University of California, USA (18 January-1 February 1981). *Lecture* : (i) Study of revolutions : The state and class (ii) Recent trends : interpretive sociology, symbolic invention, ethnomethodology and critical theory.

Professor H. Helson, University of California, Berkeley, USA (4 April- 26 July 1980) *Lectures* : (i) A boundedness principle (ii) Cocycles on flows.



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Professor Werner Hildenbrand, University of Bonn, Federal Republic of Germany, (14 February - 8 March 1981), visited the Delhi Centre under the Ford Foundation Grant. Lectures: Delhi and Calcutta, (i) Short run production function, (ii) Core of a large economy.

Dr. James D. Howard, Skidaway Institute of Oceanography, Georgia, USA (8 January - 2 March 1981) Lecture: Trace fossils: basic principles and application (ii) Holocene history of the Georgia Coast, USA. His visit was sponsored by the National Science Foundation, USA. He participated in the field work programme of the Geological Studies Unit for nineteen days. His work was centered around Proterozoic trace fossils, pseudofossils, continental Gondwana trace fossils and tidal flat facies of the Proterozoics. Dr. Howard worked in the G.S.U. Laboratory from 23 February to 1 March 1980 on the collection made during field trip. He also delivered one lecture at Jadavpur University.

Professor Lennid Hurwicz, University of Minnesota, USA, (12 February-31 March 1981) visited the Delhi Centre under the Ford Foundation Grant. Lectures, Delhi Centre: (i) Design of resource allocation mechanisms (ii) Informational aspects of allocational mechanisms (iii) Incentive compatibility; Calcutta: On the design of economic mechanism.

Dr. Arne Jensen, Professor of Mathematical Statistics and Operations Research, Technical University of Denmark, (1.12.80-1.12.80) Lecture: Risk at sea and operational research methodology in the man machine age.

Dr. T. Kamae, Osaka City University, Japan, (1.9.80-30.9.80) Lecture: Algebraicity over  $Z_p$  of functions defined by finite automata.

Professor Olaf Kraft, Aachen Technical University, Federal Republic of Germany, 2.2.81-3.2.81, Lecture: Some dual optimization problems in statistics.

Professor, Djordje Kostic, Adviser, Institute for Experimental Phonetics and Speech Pathology, Yugoslavia, (6 January-10 April 1981). In Calcutta Professor Kostic delivered inaugural address at the opening of the Kostic Centre for Speech, Habilitation, Institute of Linguistic Sciences, Calcutta. A scientific Approach to the speech and Language Habilitation of the Hearing Impaired child. He had meeting and discussion with Professor B. P. Adhikari on the general programme of linguistic research and activities. He also had meeting and discussion with Professor N. Bhattacharya. In Delhi Professor Kostic had group discussion on the topic "The role of statistics in linguistic problems.

Mr. Jorge Martinez, Vice-Minister, State Committee of Statistics, Cuba (13-14 January 1981).

Professor H. Morimoto, Department of Statistics, Osaka City University, Osaka, Japan (1.1.80) Lecture: Unbiased estimation of a normal integer mean.

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Dr. M. K. V. Murthy, School of Mathematics, Tata Institute of Fundamental Research, Bombay (9-17 November 1980) *Lecture* : Some new methods in linear partial differential equations.

Mr. Salatul Nessa, Deputy Director, Population Control and Family Planning Division, Government of Bangladesh, Bangladesh (1 January 1981), *Lecture* : Counterproductive performance and activities during July-November 1980 Bangladesh.

Dr. Igor Ocha, Institute of Economics, Czechoslovak Academy of Sciences, (14 May-June 1980) *Lecture* : Two level planning.

Professor C. Pei-Yuan, President, China Association for Sciences and Technology Vice-President, Chinese Academy of Sciences, (16-17 December 1980).

Mr. T. C. Liu, Vice-Director, Institute of Mechanics, Chinese Academy of Sciences, (16-17 December 1980).

Mr. Sun Tian Fang, Department of Mechanics, Beijing University, (16-17 December 1980).

Mr. Wang Can-Chen, Chinese Aerodynamics Research and Development Centre, (16-17 December 1980).

Mr. Ling Guo-Can, Institute of Mechanics, Chinese Academy of Sciences, Peoples Republic of China (16-17 December 1980).

Professor A. N. M. Azizur Rahman, Department of Theoretical Economics, University of Dacca, Bangladesh, (19 July 1981).

Professor J. S. Rao, University of California, Santa Barbara, USA (10 August 1980-18.8.80) *Lecture* : Non-parametric tests based on spacings.

M. B. Rao, University of Sheffield, U. K. (20 December 1980-5 January 1981), *Lecture* : On finitely additive measures.

Shri Inder Sahoo, Principal, Railway staff College, Vadodara, met the Director on (7 February 1981).

Mr. Yukio Setto, Member of the Developing Economics, Tokyo, Japan (29 November 1980).

Professor V. V. Sazonov, Steklov Institute, Moscow, (30 June-7 July 1980) *Lecture*: Recent advances in the central limit theorem.

Professor M. Shibuya, Tokyo Scientific Centre, Japan (3 December-6 December 1980).

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Professor R. Shimizu, Institute of Statistical Mathematics, Tokyo (1-17 December 1980) *Lecture* : A characterization of normal distribution.

Dr. Z. Sidak, Institute of Mathematics, Czechoslovak Academy of Sciences, (13 November-17 December 1980) (Under Indo-Czechoslovak Cultural Exchange Programme) *Lectures* : (i) A refined model for the problem of rankings, (ii) Some ideas for comparisons for clustering.

Dr. Jaya Srivastava, Department of Statistics Colorado State University, USA (March 31-2 April 1981).

Professor N. H. Stern, Department of Economics, University of Warwick, USA (7 January-8 January 1981).

Professor William D. Sudderth, University of Minnesota, Minneapolis, USA (8 December-23 December 1980) *Lectures* : (i) How to stay in a set of Koenigs's Lamna for random paths (ii) Coherence improper and finitely additive priors.

Professor Ralph Summy, Department of Political Science, Queensland University, Australia (18 February 1981), *Lecture* : An ideology in crisis : The demise of American liberalism and its effects.

Professor M. Tasaka, Department of Management Science, Kobe University of Commerce, Japan, (27 January 1981) *Lecture* : Adjustment problem.

Dr. Krishnan Unni, Kenyatta University, Nairobi, (24 July-15 September 1980), *Lecture* : Estimation in exponential families with applications.

Professor N. N. Vakhaniya, Director of Computer Centre of the Georgian Academy of Sciences, USSR (19 January-22 January 1981) *Lecture* : Correspondence between the concept of Gaussian Measure and Gaussian Process.

Dr. Yamada, Tokyo University of Fisheries, Tokyo, Japan (16 November 1980) *Lecture* : Union of weakly dominated statistical structures.

Dr. V. A. Zhukov, Academy of sciences, USSR (Institute for the History of Science and Technology) visited the Institute on 15 January 1981 and discussed with Director in connection with the organisation of Science in India and Soviet Indian Scientific Cooperation.

### 8. Honours, Awards and Special Assignments

Shri Durgaprasad Bhattacharyya (*Pre-Census Population Studies*) continued to serve as (i) Member, Indian Historical Records Commission (ii) Secretary, Socio-Economic Research Institute (iii) Member, Committee of Historical Statistics of India, ICSSR.

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Professor N. Bhattacharya (*Economic Research*) acted as Chairman of Technical Committee set up by the Ministry of Commerce, Government of India, in June 1980 for revising Index Numbers of Foreign Trade. The Committee submitted its report to the Government in December 1980. Among his other activities were—serving as ISI representative on the Governing Council of the National Sample Survey Organization; serving on the Steering Committee and several Expert Working Groups of the Road User Cost Study Project of the Central Road Research Institute, New Delhi; serving as Co-Editor of *Sankhya*, Series B and serving as Member-Secretary, Board of Director, International Statistical Education Centre, Calcutta. Professor Bhattacharya attended a meeting at Delhi on 19-20 March 1981 of the Government of India Committee on New Series of CPI Numbers (Chairman: Dr. K. C. Seal). At this meeting the Committee discussed some methodological problems with specialists and Directors of State Statistical Bureaus.

Professor D. K. Bose (*Economic Research*) continued to serve as a member of the Eleventh Annual Power Survey Committee, Ministry of Energy, Government of India and Member of the Indian National Committee for World Energy Conference. He also continued to serve as a members of the State Level Coordination Committee of the Integrated Rural Development Programme in West Bengal.

Dr. S. K. Chakrabarti (*Economic Research*) gave evidence before the Government of India Committee on Export Strategy (Tandon Committee) in Calcutta on May 26, 1980. He attended meetings of the Planning and Implementation Group in the Ministry of Transport, Government of India on January 22-23 1981 to discuss outline of research project on transport modelling for trunk route systems on a regional basis. A project proposal subsequently has been drawn up and submitted to the Ministry for consideration. He also attended Experts' Meeting in the Reserve Bank of India, Bombay March 3, 1981 to discuss the Reserve Bank model for forecasting monetary aggregates. Dr. Chakrabarti has been serving as Co-editor, *Sankhya* series B from Volume 43, 1981.

Shri N. K. Chatterjee (*Economic Research*) concluded the work as a Member of the Pay Commission of Government of West Bengal and the report of the Commission was submitted to the Government on 30 October, 1980. He continued to serve as a Member of the State-Level Coordination Committee of the Integrated Rural Development Programme in West Bengal and the West Bengal Board of Secondary Education.

Dr. S. Chattopadhyay (*Economic Research*) continued to act as the Honorary Director of the Indian School of Social Sciences, Calcutta.

Dr. P. C. Daschindhuri (*Entomology*) acted as Adviser of a project—A Study of Mosquitoes' Behaviour of Dum Dum Locality for their control sponsored by West Bengal Science and Technology Committee of the Development and Planning Department, Government of West Bengal.

Shri Mis K. Dasgupta, (*Sociology*) has been functioning as member of the following Standing Committees of Government of West Bengal. (i) The State Advisory Commi-

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tee on District Gazetteers with Shri Ashoke Mitra, I.C.S. (Retd.) as the Chairman. (ii) The State Archaeology Advisory Committee with Professor Nisith Ranjan Roy as the Chairman. (iii) The State Advisory Committee on Non-archival historical documents on freedom struggle with Dr. Barin De as the Chairman and (iv) the State Refugees Rehabilitation Committee with Shri Samar Mukherjee, M. P. as the Chairman. While a major task of the first three committees is directed to locate rare source materials, undiscovered so far, relating to social change in Bengal, the fourth committee has undertaken to conduct, for the first time in the country, a comprehensive survey of the total refugee population in West Bengal. Access to rare data which can be located by the above committees, is expected to substantially enrich the research activities of the Unit.

Shrimati Rama Deb Roy (*Pre-Census Population Studies*) was elected as the Joint Secretary of the Socio-Economic Research Institute.

Professor D. Dutta Majumder (*Electronics and Communication*) was elected, (i) Chairman, IETE, Calcutta Regional Centre and a Member of the National Council of IETE. (ii) Chairman, CSI, Calcutta Chapter and Member of the National Council of CSI. (iii) Chairman, Indian Unit for Pattern Recognition and Artificial Intelligence, (iv) Appointed as Member of Technical Committee (TC) on Digital-Systems Design, International Federation of Information Processing. (v) Liason Officer in India of the World Organisation of Cybernetic and General Systems. (vi) Member of Academic Council of the Jawaharlal Nehru University, New Delhi. (vii) Member of the Advisory Committee of the Regional Computer Centre, Jadavpur; (viii) Member of the Advisory Committee of the Computer Centre of IIT, Kharagpur.

Dr. C. R. Malaker (*Demography*) has been nominated as member of the Task Force of the Indian Council of Medical Research (ICMR) on Health Service Research in Family Planning.

Dr. K. C. Malhotra (*Anthropometry*) (i) gave two invited UGC extension lectures at Raipur University: (a) Relevance of Physical Anthropology in National development and (b) Ecological consideration in development; (ii) gave two invited extension lectures in Andhra University, Waltair (a) On dispersion of human settlements, and (b) Hunting and conservation of wildlife; (iii) Conducted a five week duration field study on collaboration with Professor M. Gadgil in five ecological zones of India on behalf of the Committee on Legislative measures and administrative machinery for environmental protection; (iv) attended the meeting of the National Committee for XV International Congress on Genetics in Delhi and Varanasi; (v) was appointed external examiner for Ph. D dissertation, Andhra University and Poona University; (vi) Course Director, Workshop on Statistical Methods in Human Population Genetics sponsored by Indian Statistical Institute and Indian Council of Medical Research, 6 October-4 November 1980.

Dr. Partha N. Mukherji (*Sociology*) has been associated with the ICSSR on project evaluations and expert committees.

Professor S. K. Roy (*Botany*) served as Honorary Member of the West Bengal Science and Technology Committee of the Government of West Bengal.

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Shri B. N. Sarkar (*Demography*) has been elected president of the Eastern India Regional Chapter of the Indian Academy of Social Sciences, Allahabad.

### 9. Scientific Tours and Assignments Abroad

Dr. G. Bhattacharyya (*DRTC, Bangalore*) attended the International Conference on Training for Development Planning organised by the German Foundation for International Development, Berlin, (West), 4-6 August 1980.

Shri R. L. Bramachary (*Embryology*) went to Kenya in the last week of October 1980 and returned in the second week of January 1981. During this period he studied wildlife ecology in George Adamson's Camp at Kra.

Shri S. R. Chakravarty (*Economic Research*) attended the Fourth World Congress of the Econometric Society held in Aix-on-Provence, France, 28 August-2 September 1980. He left Calcutta on August 22, 1980 and returned on 2 September 1980.

Dr. Sukharanjan Chakravarti (*Applied Statistics, Surveys and Computing*) visited the Department of Mathematics and Statistics, University of Montreal, Canada, during October 1980 and March 1981, as a Visiting Scientist.

Shri Prakash Chander (*Planning, Delhi*) visited the Yale University, USA, 7-14 September 1980 and the University of Minnesota, 15-20 September, 1980.

Dr. Sankar Chatterjee (*Geological Studies*) continued to be at the Department of Geosciences, Texas Tech University, Lubbock, USA, on leave. He participated in the Society of Vertebrate Paleontology Annual Meeting at Gainesville, Florida, USA 13-15 November 1980.

Dr. Arijit Chaudhuri (*Applied Statistics, Surveys and Computing*) visited University of Montreal, Canada, February-August 1980 on invitation and gave several seminars on Sampling Theory. He attended an International Symposium on Survey Sampling at Carleton University, Ottawa, Canada 7-9 May 1980 and gave an invited talk.

Shri V. K. Chetty, (*Planning, Delhi*) visited the University of Warwick England, 3 September-8 September 1980.

Shri Bhaskar Dutta (*Planning, Delhi*) Participated in the symposium on Social Choice-Theory, Caen, France, September 1980.

Professor D. Dutta Majumder (*Electronics and Communication Science*) attended IFIP Conference-1980 and 8th World Computer Congress at Tokyo, Japan, 8-9 October 1980. His visit was sponsored by Computer Society of India and Indian Statistical Institute. At the IFIP-1980 he participated in the deliberations of Technical Committee on Digital System Design, Representing India. He also delivered a talk on Fuzzy set

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theoretic approach in PR and ASR research on 11 October 1980, Department of Electrical Engineering, University of Tokyo.

Shri F. J. Devadason (*DRTC Bangalore*) attended the Eighth International Conference on Computational Linguistics (COLING-80) at Tokyo, 23-September-4 October 1980.

Professor J. K. Ghosh (*Stat. Math.*) visited (i) the Department of Statistics, University of Dar-Es-Salaam, Tanzania 13 March-24 April 1980 to act as an External Examiner in the Ph. D. Committee. He delivered lectures on Small sample asymptotic and Statistical models of sediment transport. (ii) The University of Nairobi, Kenya to act as an External Examiner. (iii) The Department of Statistics, University of Missouri-Columbia, Columbia, Missouri USA 1 June-15 July 1980. During his stay he did some collaborative research with Professor A. P. Basu. He also delivered some lectures.

Shri M. A. Gopinath (*DRTC, Bangalore*) attended (i) the Seminar on Standards for Information Work, hosted by ONKDK of the Ministry of Science and Culture, Hungary and sponsored by the UNESCO in Budapest 1-10 September 1980; (ii) the UNESCO meeting on the Education and Training Policies and Programmes in Library and Information Science, Paris, 26-28 November 1980; (iii) presented a seminar on New Developments in Colon Classification at the Meeting of the Classification Research Group, London, 11 December 1980.

Dr. T. Krishnan (*Applied Statistics, Surveys and Computing*) visited the Humboldt University, Berlin 26-8 April 1981, on an Indo-GDR Cultural Exchange Programme. He gave a series of lectures on Discriminant Analysis with supervised and unsupervised learning. He participated in the International Summer School on Model Choice and Parameter Estimation in Regression Analysis at Sellin Rugen Island, GDR, 27-2 April 1981 and contributed a paper entitled A review of Learning Models in Pattern Recognition.

Dr. K. C. Malhotra (*Anthropometry*) left for USA and Canada on November 4 and returned to Calcutta on December 9, 1980. In USA he participated in the 9th Wisconsin Conference on South Asia held at Madison (Nov. 7 to 9) and presented a paper. During his stay in USA and Canada Dr. Malhotra was invited by the following institutions: (i) Centre for Demography and population Genetics, Houston (10-16 Nov.) gave a seminar on Ecology of Pastoral Castes, finalized three papers on dermatoglyphics with Dr. R. Chakraborty and held discussions, with Professor M. Nei and Professor W. J. Schull; (ii) Department of Anthropology, Houston University, Houston (14 November), gave a seminar on Population structure and gene differentiation, (iii) Department of Anthropology, University of Oregon, (17-23 November), gave a seminars on (a) Persistence of non-pastoral nomadism in India (b) Anthropology Research in India (c) Ecology and Pastoralism and (d) Population structure of Indian populations; (iv) Department of South Asian Studies, University of Manitoba, Winnipeg, Canada (24-26 November), held discussion on applied anthropological work being carried out by Institute (v) Department of Anthropology, University of Temple, Philadelphia (27-28

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November), held discussions with Dr. Charles Weitz; (vi) Department of Biostatistics, University of Washington, St. Louis (30 November to 2 December), gave a seminar on Population structure of Indian castes and tribes, and held discussion with Dr. D. C. Rao and his colleagues for collaborative work on hypertension; (vii) Ureka College, Eureka (3-4 December), gave seminars on (a) Environmental protection, (b) Cross-cultural aspects of marriage in India, (c) Social stratification in India, (d) Ecological profile of pastoral castes, and (e) Relevance of collaborative research; (viii) Department of Biostatistics, Pittsburg University, 3-6 December gave a seminar on Gene dispersion in Indian populations, and held discussions with Dr. A. Chakravarti on possibility of future collaborative work on haemoglobinopathies.

Dr. S. K. Mitra (*Stat.Math., Delhi Centre*) has been with the Department of Mathematics, Indian University, USA and with the Department of Statistics, Purdue University, USA since May 1980 except for a period of five weeks in November—December 1980 as a Visiting Professor.

Mrs. Alokamala Mitter (*Linguistic Research*) visited Belgrade, Yugoslavia, on a scientific assignment, 9 November 1980—6 January 1981. She worked with scientists at the Faculty of Defectology, Belgrade University, and also in the Institute for Experimental Phonetics and Speech Pathology, Belgrade. During her stay in Belgrade she visited among other Institutes the Institute for Neuro-physiological Research and the Institute for Cerebral Palsy and studied modern methods for treatment of Speech Pathological cases. She participated in discussions with linguists and phoneticians as well as medical practitioners and psychologists on specific areas of common interest in the treatment of pathological deviations in speech of physical, psychological and neurological origin.

Dr. P. Mukhopadhyay (*Applied Statistics, Surveys and Computing*) visited University of Montreal, Canada during March 1980 as a Visiting Scientist.

Shri S. M. Sundara Raju (*SQC*) who had gone abroad to Iraq on a UNIDO assignment for an initial period of a year has extended his leave for another year.

Dr. K. P. S. Bhaskara Rao (*Stat.-Math.*) visited the Institute of Mathematics of the University of Lecce on an invitation for two months May 1980-July 1980. He gave invited lectures at the Mathematics Departments of (i) University of Rome, (ii) University of Lecce and (iii) University of Naples.

Professor S. K. Roy (*Botany*) left Calcutta on 26 July 1980 and returned on 25 August 1980 after attending the 35th International Conference Against H- and A-Bomb in Tokyo and Hiroshima where he gave lectures on 'Atom for peace and the future of man'. He also visited a few institutes in Japan and held discussions and seminars.

Shri S. Guha Roy (*Demography*) attended as a Professional Associate of the East West Population Institute, Hawaii (USA) the Summer Seminar in Population 31 May—28 June 1980 in Honolulu and 29 June—4 July 1980 in Manila, Philippines.



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Shri S. Seetharama (*DRTC Bangalore*) left for Frankfurt, Federal Republic of Germany to work on a project on the Compilation of a Comprehensive Bibliography on Classification under the auspices of the German Classification Society, 23 March 1981.

K. B. Sinha (*Stat-Math., Delhi Centre*) attended the Special Session on Mathematical Physics, American Mathematical Society, Boulder, Colo., USA April 1980 and presented a paper. He presided over one of the sessions. He spent April-May 1980, in continuation of his earlier stay, as a Visiting Professor of Mathematics at the University of Colorado, USA.

### 10. Scientific Assignments in India

A. Basu (*Anthropometry*) attended (i) Annual Conference of the Indian Anthropological Society, Calcutta, April 1980; (ii) Participated in Symposium on Ethnicity-Biocultural Implications and presented a paper; (iii) South Asia Regional Symposium of International Association of Human Biologists, and VII Annual Conference of the Indian Society of Human Genetics, Ranchi 26-28 December 1980 (iv) Symposium on Human Biology in National Development and presented papers.

Shri Anirban Basu (*Applied Statistics, Surveys and Computing*) attended the 24th Technical convention of the Institution of Electronics and Telecommunication Engineers, December 1980, and presented two papers. (ii) Seminar on Advances in Computer Network conducted by Computer Maintenance Corporation, March 1981.

Shri T.K. Basu (*Applied Statistics, Surveys and Computing*) attended (i) the Annual Convention of Chemists in I.T.I., Bombay 9-17 December 1980 and presented a paper on intestinal Glabsoption—a theoretical study; (ii) presented a paper entitled Mathematical simulation in insulin glucagon and glucose value in human circulating blood in the face of a prolonged muscular exercise at the eighth CASAMCO National Research Symposium on Application of Mathematics to Science and Society, Calcutta Science College, University 26-27 March 1981.

L. S. Bhat (*Planning, Delhi*) attended (i) All India Conference on Centre-State Relations, Society for the Study of the Regional Disparities in Development, New Delhi. (ii) He participated in the meeting of State Economic Advisory Committee of Uttar Pradesh, Lucknow, 13-14 May 1980; (iii) Second Annual Conference of the National Association of Geographers India, Sri Venkateswara University, Tirupati, Srisi, January 1981; (v) U.C.C. sponsored symposium on Urban and Regional Development, Geography Department, Bombay University, Bombay February 1981; National Symposium on Regional Planning and Rural Development, C. B. Pant Social Science Institute, Allahabad, March 1981.

Sri Durgaprasad Bhattacharya (*Pre-Census Population Studies*) attended (i) Conference on Urbanisation in West Bengal at the Department of Economics, Calcutta University, 6-7 December, 1980 and participated in deliberations. (ii) He and Shrinati

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Rama Deb Roy attended the Conference on Population Distribution and Development, 29-31 December, 1980 and presented a joint paper.

Dr. G. Bhattacharyya and Shri M. A. Gopinath (*DRTC, Bangalore*) attended (i) the RCTT Round Table on Information for Technology Transfer organised by the Regional Centre for Technology Transfer (ESCAP) in Bangalore, 15 June 1980; (ii) the ILORCTT (ESCAP) Regional Consultation on Documentation and Information System on Technological Alternatives organised by the International Labour Organisation in Collaboration with Regional Centre for Technology Transfer (ESCAP) in Hyderabad, 8-13 September 1980.

Shri S. K. Biswas (*Sociology*) attended the Annual Conference of the Indian Anthropological Society, Calcutta, 10 May 1980, at the National Museum, Calcutta and also chaired the Cultural Anthropology Session and (ii) participated in the Annual Conference of IASP, at the Institute Calcutta, 29 December —31 December 1980.

Professor D. K. Bose (*Economic Research*) participated in a seminar on Energy on the occasion of the 25th Anniversary of Indo-Soviet Economic Co-operation in Calcutta, 1 April, 1980. He also gave seminars on the proposed project on the Review of the Indian Economy in the Economic Research Unit, 19 September, 1980 on Prospects of Social Forestry in the Villages in the Seminar-cum-Workshop on Social Forestry, Directorate of Forest Government of West Bengal, Purulia 9-11 January 1980 and on Public Policy Issues Relating to the Indian Economy, Department of Economics, Presidency College, 14-15 March 1981.

Shri B. Chakravorty (*Demography*) participated in the deliberations of the Statistics section of the 68th session of the Indian Science Congress, Varanasi, 3-7 January, 1981. He presented a paper.

Shri P. Chakrabarti (*Sociology*) (i) participated in a seminar on Adult Literacy Program organized by the Comprehensive Area Development Corporation, Calcutta, 3-5 September 1980, and in the discussion on Rural Development and Adult Literacy, in the session Rural Development, and (ii) attended a two-day Conference on Urbanisation in West Bengal at Centre for Urban Economic Studies, Calcutta, 6-7 December 1980.

Dr. S. K. Chakrabarti (*Economic Research*) led a discussion on the Union Budget, 1980-81 in the Economic Research Unit 18 July, 1980. He also gave seminars of Professor Sukhatme's Thesis on the Incidence of Undernutrition at the Centre for Economic Studies, Presidency College 3 September, 1980; on Forecasting Methodology in the Banking Industry' organised by National Institute of Bank Management in Bombay 6-8 December 1980 and on Public Policy Issues relating to the Indian Economy at the Centre for Economic Studies, Presidency College, Calcutta 14-15 March 1981.

Shrimati S. Chanda (*Leaf Protein*) attended 21st Annual Conference, Association of Microbiologists of India, Bhavanis College, Andheri, Bombay 31 October-3 November 1980. She presented one paper.

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Shri Bhola Chatterji (*Sociology*) attended a 3-day national seminar on Dynamics of Social Change at Nehru Memorial Museum and Library, New Delhi, 8-10 October 1980, organized by Jayaprakash Academy. He read a paper.

Shri Kunal Chattopadhyay (*Pre-Census Population Studies*) attended the 63rd Annual Conference of the Indian Economic Association at Gokhale Institute of Politics and Economics at Pune, 26-28 December, 1980 and presented a paper.

Dr. S. Chattopadhyay (*Economic Research*) gave the introductory lecture at a seminar on Marxism and Aesthetics organised by the Indian School of Social Science, Calcutta, Calcutta University 21-22 June 1980. Several other seminars addressed by him were : Operation Barga in the Fourth State Conference of the West Bengal Veterinary Compounder's Association at Veterinary College, Calcutta 16 August 1980, Land Reforms during the Plan Period in the Planning Seminar of the Planning Forum, Shibpur Dinabandhoo Institution 11 October 1980 and Economic Aspects of Centre State Relation at the Nabajank Sanskrit Parishad, Calcutta, 30 November 1980.

Sri V. K. Chetty, (*Planning, Delhi*) attended (i) As special invitee of the High Level Committee on Sugar Industry, Computed the ration price of Sugar which was later approved by the Cabinet in its meeting on 11 November 1980; 8-11 September 1980 (ii) XIX Annual Conference of IIES, Gokhale Institute of Politics and Economics, 30-31 December 1980 and 1 January 1981, Pune and delivered an invited lecture on Sugar Policy.

Dr. B. S. Dandapat (*Electronics*) participated (i) in the First Asian Congress of Fluid Mechanics, 8-13 December 1980, The Indian Institute of Science, Bangalore. (ii) The International Symposium on Non-linear Continuum Mechanics, 17-20 December 1980 at the Indian Institute of Technology, Kharagpur (Organised by ISTAM); (iii) the Eighth CASAMCO National Research Symposium on 27-27 March, 1981, Science College, Calcutta University. Application of Mathematics to Science and Society.

Shri Ajit K. Das (Stat. Math.) attended the 34th Annual Conference of the Indian Society of Agricultural Statistics, Lucknow 23-25 December 1980 and presented a paper entitled sampling strategies for coefficient of variation using knowledge on the mean of an auxiliary character.

Dr. B. C. Das (*Biometry*) (i) presented a paper on Population Problems and regional development of resources at a Conference organised by Indian Association for Population Studies, December 1980; (ii) participated in the Annual Econometric Conference in Poona, December 1980 and read a paper on a new concept of interdisciplinary data base for rural development in Indian context.

Shrimati Rama Deb Roy (*Pre-census Population Studies*) attended the 1st Annual Conferences of the Bangiya Arthaniti Parishad, Calcutta 25-26 January, 1981 and

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presented a paper. Shri Durgaprasad Bhatnagar also attended the Conference and participated in deliberation.

Sm. Jayasree Duttagupta and Aji Pal (Electronics) attended the 16th Annual Convention of the Computer Society of India, New Delhi, 1-14 March 1981. They presented papers.

D. Dutta Majumder (Electronics and Communication Science) was invited to chair a session and gave a lecture as a panelist at the Opto-Electronics symposium organised by the Defence Research and Development Organisation, Hyderabad, 22-24 December 1980.

Shri M. A. Gopinath and Shri S. Seetharama (DRTC, Bangalore) attended the IASLIC Seminar-9 1980 on Information for Technology Transfer, Nagpur, 22-26 October 1980.

A. B. Gupta (Physics) attended the Ninth Annual Conference of the Indian Association of Dermatologists, sponsored by Indian Association of Dermatologists, Venereologists and Leprologists, Indore, 8-10 January 1981. He presented a paper.

Shri Sanjib K. Gupta attended the 68th session of Indian Science Congress, Varanasi 3-7 January 1981 and presented a paper on Dietary influence on cholesterol storage in different tissues in our body.

Dr. S. L. Jain (*Geological Studies*) (i) Attended the Fifth All-India Congress of Zoology at Bhopal, 1-3 November, 1980. The Conference was held under the auspices of Bhopal University Bhopal, and sponsored by the Zoological Society of India. One paper was presented and an invited lecture on Dinosaurs in India was delivered; (ii) delivered an invited lecture at Calcutta University under the auspices of Zoological Society on the world on dinosaurs on 16 January 1980; (iii) an extramural lecture at Birlwan University on Fossils, fossilization and the Indian dinosaur on 11 February 1980 and (iv) lecture on Debate on dinosaur emiothermy at Panjab University, Chandigarh on 25 March 1980.

N. K. Jaiswal, (*Stat. Math. Delhi Centre*) was Programme Secretary of the International Conference on Transportation (ICOT) sponsored by the OR Society of India and the International Federation of OR Societies, 26-28 November 1980, Vigyan Bhavan, New Delhi.

Dr. P. Maiti (*Economic Research*) acted as a discussant for one of the papers presented in the Seminar on Public Policy Issues Relating to the Indian Economy Department of Economics, Presidency College, Calcutta, 14-15 March 1981.

Shri P. Maiti (*Stat. Math*) attended the 34th Annual Conference of the Indian Society of Agricultural Statistics, Lucknow, 23-25 December 1980 and presented a paper entitled Use of prior information on some parameters in estimating population mean.

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Dr. C. R. Malakar (*Demography*): (i) At the invitation of the Indian Council of Medical Research participated in the Task Force Meeting New Delhi, 28 to 29 May, 1980. He presented a paper. (ii) He participated in the seminar on Use of Sampling in Population Census and Demographic Surveys, New Delhi, 18-29 August 1980, organised by the Registrar General of India. (iii) He presented a paper at the invitation of the Indian Council of Medical Research (ICMR) participated in the Joint ICMR/WHO Workshop on Psychological Research in Family Planning at the ICMR Hear Quarters' Office New Delhi, 19 to 20 February 1981.

K. C. Malhotra (*Anthropometry*): attended (i) Protecting our environment : the key to Sustainable Development Conference, Ahmednagar, 4-6 August 1980. (ii) VII annual conference of the Indian Society of Human Genetics ; National Symposium on child with handicap, Human Biology in National Development : South Asia Regional Symposium of International Association of Human Biologists, Ranchi, 26-28 December 1980 (iii) 68th session of the Indian Science Congress, Varanasi 3-5 January 1981, (iv) Seminar on Implications of Hydroelectric Projects in Uttara Kanada, Siwi, 17-19 January 1981, (v) Xth annual conference of the Ethnological Society of India, Bangalore, 11-12 February, 1981.

Shri S. Matai (*Leaf Protein*) as member and co-convenor, attended the third meeting of the Co-ordination Committee of Leaf Protein Research in India, 30-31 October 1980 and presented status report of work done in the Institute. Shri S. Matai, D. K. Bagchi, Dr. S. Chakraborty (Guest Scientist) and Shrimati A. Banerjee (*Leaf Protein*) attended XIII Annual Convention of Indian Society of Agricultural Chemists Bidhan Chandra Krishi Visva Viddalay, Kalyani, 28-29 November 1980. The Group presented three papers, Leaf Protein was one of the four subjects discussed in the convention. Shri S. Matai was the Chairman of the Session.

Dr. H. P. Mazumdar (*Electronics*) participated in (i) The International Symposium on Non-linear Continuum Mechanics, 17-20 December 1980 at the Indian Institute of Technology, Kharagpur (Organised by ISTAM). (ii) The Eighth CASAMCO National Research Symposium, 26-27 March 1981, Science College, Calcutta University.

Shrimati Krishna Mazumdar (*National Income*) attended the Conference on Urbanization in West Bengal, sponsored by the Centre for Urban Economic Studies, Department of Economics, University of Calcutta, 6-7 December 1980 and presented a paper.

B. N. Mukherjee (*Anthropometry*) attended the VII Annual Conference of Indian Society of Human Genetics, National symposium on child with handicap and South Asia Regional Symposium of International Association of Human Biologists, Ranchi, 26-28 December 1980, and read 4 papers.

K. K. Mukherjee (*Stat. Math., Delhi Centre*) participated as one of the instructors in the TIFR Summer School of Algebraic Geometry and Algebraic and Differential Topology, Mysore, May-June 1980.

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Dr. Partha N. Mukherji and Shri M. Chattopadhyay (*Sociology*) attended Third Damodar Memorial Symposium in Pansoury and Struggle for New India Jawaharlal Nehru University, New Delhi 12-13 April 1980 and presented a paper.

M. S. Pandalai, (*Planning, Delhi*) attended second Annual Conference of the National Association of Geographers, India, Sri Venkateswara University, Tirupati 9-12 January 1981.

M. R. Saluja, (*Planning, Delhi*) attended the High Level Committee Meeting on Sugar Industry, 8-11 September 1980.

K. Saradamoni, (*Planning, Delhi*) attended (i) XIX Annual Conference of TIES, Gokhale Institute of Politics and Economics, Pune, 30-31 December 1980 and January 1981; (ii) the sessions on Weaker Sections at the Annual Conference of the Indian Agricultural Economics Association, Gokhale Institute 30-31 December 1980; (iii) Social Development at the seminar of the Indian Association for Research in National Income and Wealth Gokhale Institute Pune; (iv) III-National Seminar on Sex Discrimination in Gainful Employment organised by USEFI and Indian Institute of Education, Pune, 1-5 January, 1981.

T. Parthasarathy, (*Stat., Math., Delhi Centre*) gave an invited address on Stochastic games, at the Conference on the Theory of probability and Applications organized by the Indian Society for Probability Theory and its Applications, S. V. University Campus, Tirupati, Andhra Pradesh.

Shri C. K. Raju (*Electronics*) visited the Tata Institute of Fundamental Research, India.

Shri M. V. Raman (*Demography*) participated in a seminar on Special Features and Significance of the Census of India, 1981, Kalyani University, West Bengal 4 October, 1980. He presented a paper.

Dr. Bina Roy (*National Income*) attended and presented papers: (i) 9th Conference of the Indian Econometric Society (ii) the Biennial Seminar of the Indian Association for Research in National Income and Wealth The Gokhale Institute of Politics and Economics Pune, 30-31 December 1980 and 1 January 1981; (iii) the National Seminar on Wages, Income and Prices sponsored by the University Grants Commission, the Department of Commerce and Business Management, Punjab University, Chandigarh 10-11 October 1980.

Dr. J. Roy (*Applied Statistics, Surveys and Computing*) attended (i) On invitation a workshop on Curriculum in the area of Computer Science and Engineering at the Indian Institute of Technology, New Delhi 21-22 April 1980; (ii) gave an invited lecture on Monte-carlo methods at Indian Institute of Science, Bangalore on 24 June 1980; (iii) participated as a member of the Committee to assess and evaluate the INTEGRA Project of Computer Maintenance Corporation, Hyderabad; (iv) On being invited by Vikram

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Sarabhai Space Centre, Trivandrum, delivered lectures in a workshop on Computation Techniques on 17 November 1980; (v) participated as member for the Committee set up by the Department of Electronics to select Computer Systems for the Departments of Space and Atomic Energy.

Dr. T. Roychowdhury and Shri T. S. Kutty (*Geological Studies*) attended the Symposium on Three Decades of developments in Palaeontology and Stratigraphy in India, Hyderabad, 10-12 December 1980. The Conference was sponsored by the Geological Survey of India. One paper was presented.

Dr. G. M. Saha (*Stat. Math.*) attended the 68th session of the Indian Science Congress, Varanasi, 3-7 January, 1981 and delivered an invited talk, in the symposium recent advances in the Design and Analysis of Experiments.

Shri B. N. Sarkar (*Demography*) attended at the invitation of the National Council of Education Research and Training (NCERT), New Delhi, 13-15 October 1980. He participated in the seminar on Role of Sample Surveys in Education. He presented a paper (ii) He participated in the Fifth Annual Conference of Indian Academy of Social Sciences at Udaipur, Rajasthan 6-8 July, 1980. He presented a paper.

A. N. Sharma (*Planning*, Delhi) attended International Conference on Transportation, New Delhi 26-28 November 1980; (ii) Second Annual Conference of the National Association of Geographers India, Sri Venkateswara University, Tirupati, 9-12 January 1981.

Dr. Bikas Kumar Sinha (*Stat. Math.*) attended the 68th session of the Indian Science Congress, Varanasi, 3-7 January, 1981 and delivered an invited talk in a Symposium on Recent Advances in Design and Analysis of Experiments.

Dr. S. M. Srivastava, (*Stat. Math.*) on invitation, gave a course of 11 lectures in Descriptive Set Theory at the Department of Mathematics, University of Bombay, 23 February—14 March 1981.

Dr. T. P. Tripathi (*Stat. Math.*) attended (i) the meeting for the release of the Vol. 1, No. 1 of the Journal of Indian Society of Statistics and Operations Research (JISSOR) at Sohna, Harvana, 29 March 1981. He has been appointed as an Associate Editor of the JISSOR; (ii) a meeting at the Muslim University, Aligarh, regarding the Aligarh Journal of Statistics (AJS). He has been appointed as a member of the Editorial Board of the Journal.

### Eighty-seventh Birth Anniversary of the Late Professor P. C. Mahalanobis

In order to honour the memory of Professor Prasanta Chandra Mahalanobis, founder of the Indian Statistical Institute a meeting was held at Baranagar on 14 July 1980. Professor Bhabulosh Datta, gave a lecture on Professor Mahalanobis and Economic Planning. Dr. B. P. Adhikari, Director of the Institute presided.

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### Part III : Administration and Office-bearers

#### 12. General Administration

(i) *Membership* : During the year 114 persons were enrolled as ordinary members, membership of 44 ordinary members were terminated-4 ordinary members became life members, 4 ordinary members resigned from the membership, membership of 2 ordinary members was revived. One ordinary member, 1 Institutional member, 1 life member and 1 Honorary life member died. One Institutional member resigned from membership. The membership position as on 31 March 1981 was 527 (Ordinary members 386, Honorary life members 3, Life members 128 Institutional members 10). During the year, 183 student members were enrolled.

(ii) *Annual General Meetings* : Two Annual General meetings of the Indian Statistical Institute were held on 22 July 1980 and 2nd January 1981.

(iii) *Council Meetings* : Six meetings of the Council of the Institute were held during the year : (1) 24 April 1980, (2) 22 July 1980, (3) 7 August 1980, (4) 25 September 1980, (5) 2 January 1981 and (6) 30 March 1981.

(iv) *Finance Committee Meetings* : Two meetings of the Finance Committee were held during the year : (1) 24 September 1980, and (2) 30 March 1981.

A list of the names of the President, Chairman and members of the Council of the Institute together with a list of members of different committees is given in chapter 13.

(v) *Institute Staff* : The following senior members of the Staff have been functioning in the posts mentioned below during the year. 1. Dr. B. P. Adhikari, M.Sc.(Cal.), Dr. es Sc.(Paris), Director. 2. Dr. T. Krishnan functioned as Dean of Studies upto 25 July 1980. 3. Dr. Ambarish Ghosh took over as Dean of Studies for rest of the year. 4. Dr. K. R. Parthasarathy, Head of Delhi Centre. 5. Shri N. Srinivasan, Officer-on-Special Duty (Administration and Finance).

(vi) *New Appointments* : The following scientific staff joined the Institute during the year.

1. Dr. Basudev Adhikari, Visiting Associate Professor, Computer Science Unit.
2. Dr. Raghunath Arnab, Lecturer, Computer Science Unit.
3. Shri Anirban Basu, Computer Engineer, Computer Science Unit.
4. Dr. Biswanath Bhattacharjee, Lecturer, Economic Research Unit.
5. Shri Kanai Dutta, Deputy Librarian, Library.
6. Shri Subrata Dutta, Computer Engineer, Computer Science Unit.
7. Dr. Bijay Majumdar, Lecturer, Stat-Math. Division.



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8. Shri P. K. Perumallu, Technical Officer II, SQC, Bangalore.
9. Dr. (Mrs.) Surekha Rao, Lecturer, Economic Research Unit.
10. Shri Sisir Roy, Lecturer, Electronics Unit.
11. Shri Asim Roy Choudhury, Technical Officer II, SQC, Bangalore.
12. Dr. Haimanti Sarbadhikari, Lecturer, Stat.-Math. Division.
13. Shri S. N. Sarker, Lecturer, Geological Studies Unit.
14. Shri N. T. Sri Kumar, Technical Officer II, SQC, Hyderabad.
15. Dr. S. M. Srivastava, Lecturer, Stat-Math. Division.

(vii) *Retirement* : Shri Uday Banerjee, Executive Officer (SG) Public Relations Unit.

(viii) *Staff position as on 1 March 1981* :

1. Scientific and Technical Group —448
2. Non-Scientific Group —959

(ix) *Land and Construction* :

(A) *Calcutta : Composite Library Building* : General construction work for the 5th and 6th floor of the composite library building was entrusted to Messrs. Jashoda Nandan Dutt who was selected from the four participants in the open call for the tender at the cost of Rs. 29,72,038. Work was started on 23 June 1980 and the time allowed for the work was 12 calendar months. By the end of the financial year under review the following works have been completed costing about Rs. 14,23,600/- : (i) fifth floor columns 100% (ii) fifth floor roof slab, beams and staircase 100% ; (iii) fifth floor plaster to walls, ceiling and beams 25% ; (iv) fifth floor brick work 80% ; (v) sixth floor columns 72% ; (vi) sixth floor roof slab, beams and staircase 60% ; (vii) sixth floor brick work 55%.

(b) *Delhi Centre* : The work pertaining to the construction of B-4 block consisting of six dwelling units which was awarded to Messrs. M. K. Mondal, on 14 December 1979 at a value of Rs. 5,69,000 is nearing completion. The work is likely to be completed by April 1981. The work pertaining to the electrical installations in the above block awarded to Mrs. Anand & Co. during May 1980 at a value of Rs. 39,200 is also likely to be completed by April 1981. A car-cum-scooter-cum cycle shed and a toilet for the electrical sub-station staff was constructed during the year at a total value of Rs. 34,888. A temporary shed for the mini-bus was also constructed during the year at a value of Rs. 24,275. These works were done by Messrs. M. K. Mondal.

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**1'. List of President, Chairman and Members of the Council  
Members of the Committees of the Council  
and Academic Council**

*President : Shri Subimal Dutt, ICS (Retd.)*

*The Council*

1. *Chairman : Shri P. N. Haksar, M.Sc., Bar-at-Law, IFS (Retd.)*

*Representatives of Government of India (4)*

2. (i) *Dr. K. C. Seal, Director, Central Statistical Organisation, Department of Statistics, Ministry of Planning.*
3. (ii) *Shri N. K. Panda, Joint Secretary, Ministry of Finance, Department of Expenditure.*
4. (iii) *Dr. (Mrs.) A. R. Rajeswari, Principal Scientific Officer, Department of Science and Technology.*
5. (iv) *Shri K. P. N. Nair, Department of Statistics, Reserve Bank of India.*

*Scientists not employed in the Institute (7)*

*Representative of ICSSR (1)*

6. *Professo. Bhabatosh Datta*

*Representatives of INSA (4)*

7. (i) *Professor M. S. Narasimhan, School of Mathematics, Tata Institute of Fundamental Research, Bombay.*
8. (ii) *Professor S. S. Shrikhande*
9. (iii) *Professor A. K. Sharma, F.N.A. Professor and Head, Department of Botany University of Calcutta.*
10. (iv) *Dr. S. C. Bhattacharyya, Director, Bose Institute, Calcutta*

*Scientists co-opted by the Council (2)*

11. (i) *Professor Biswajit Nag, Chairman, Electronics Commission and Secretary, Department of Electronics.*

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12. (ii) Professor S. R. Adke, Head, Department of Statistics, University of Poona.

*Elected representatives of the Institute Members not employed in the Institute (2)*

13. (i) Dr. P. K. Bose, M.Sc., Ph.D. FSS (London), Centenary Professor and Head, Department of Statistics, University of Calcutta.

14. (ii) Shri S. B. Sen, Planning Adviser, Government of West Bengal.

*Elected representatives of the employees of the Institute (2)*

15. Shri Suhas Biswas, Representative of scientific workers of the rank below that of Associate Professor or equivalent.

16. Shri K. M. Paltaik, Representative of non-scientific workers.

*Officers of the Institute (ex-officio) (9)*

17. (i) Director, Dr. B. P. Adhikari

*Professors-in charge of Scientific Divisions (5)*

18. (ii) Dr. Jayanta Kumar Ghosh, Theoretical Statistics and Mathematics Division

19. (iii) Dr. Jogendra Roy, Applied Statistics, Surveys and Computing Division.

20. (iv) Dr. Nikhilesh Bhattacharyya, Social Sciences Division.

21. (v) Dr. Tapan Roychowdhury, Physical and Earth Sciences Division.  
(Shri Ashis Sen from 1 December 1980 to 28 February 1981 in absence of Dr. T. Roy Chowdhury).

22. (vi) Sri Shyam Maiti, Biological Sciences Division.

23. (vii) Dr. K. G. Ramamurthy, Head, Statistical Quality Control and Operations Research Division.

24. (viii) Dr. K. R. Parthasarathi, Head, of Delhi Centre.

25. (ix) Dr. Ambarish Ghosh, Dean of Studies.

Shri N. Srinivasan, Officer-on-Special Duty. (Administration and Finance), acted as non-member Secretary.

*List of Members of the Academic Council*

1. Dr. B. P. Adhikari, Chairman

2. Dr. A. Ghosh, Dean of Studies, Convenor

FORTYNINTH ANNUAL REPORT : 1980-81

*Theoretical Statistics and Mathematics Division*

3. Dr. J. K. Ghosh 4. Dr. A. Maitra, 5. Dr. E. M. Paul, 6. Dr. B. V. Rao, 7. Dr. A. K. Roy, \*8. Dr. Gulli Jogesh Babu, \*9. Dr. Someni Chandra Bagchi.

*Applied Statistics Surveys and Computing Division*

10. Dr. J. Roy, 11. Dr. R. C. Das, 12. Dr. T. V. Hanurav \*13. Dr. Subir Bandyopadhyay \*14. Dr. P. Hinasankaran 15. Dr. B. N. Mukherjee

*Social Sciences Division*

16. Dr. N. Bhattacharya, 17. Dr. D. K. Bose, 18. Dr. S. Chatterji 19. Dr. Partha Nath Mukherjee, \*20. Dr. D. Das Gupta \*21. Shri S. Guha Roy.

*Biological Sciences Division*

22. Professor S. K. Roy, \*23. Shri Biswanath Mukherjee, \*24. Dr. K. Pakras.

*Physical and Earth Sciences Division*

25. Dr. T. Roychoudhury 26. Dr. Anilrish Ghosh (Same as Sl. No. 2), 27. Dr. D. Dutta Majumdar 28. Professor P. Bandyopadhyay 29. Shri A-bis Sen, 30. Dr. S. L. Jain 31. Dr. Supriya Sengupta, \*32. Shri A. B. Gupta, \*33. Dr. J. Das.

*Delhi Centre*

34. Dr. K. B. Parthasarathy, 35. Dr. L. S. Bhat, 36. Dr. V. K. Chetty, 37. Dr. B. S. Mishra, \*38. Dr. Sujit Kumar Mitra, 39. Dr. T. Parthasarathy, 40. Dr. B. Ramachandran 41. Dr. B. L. S. P. Itrao.

*SQC and OR Division*

42. Dr. K. G. Ramamurthy, 43. Shri R. G. Narashimhan, 44. Shri C. R. Prasad, 45. Shri B. K. Sarkar, 46. Shri C. A. Setty, \*47. Shri N. T. V. Ranga Rao, \*48. Shri Y. H. Itrao.

*Library, Documentation and Information Science Division.*

49. Professor Ganesh Bhattacharyya, 50. Dr. J. Misra.

*Member-Secretary, ISEC, Calcutta.*

51. Dr. N. Bhattacharya (Same as Sl. No. 16).

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\*Representative selected by the Divisional Committees of scientific workers.

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*Head, SQC T and P Unit*

52. Shri R. J. Pandey

*Secretary, Examinations Committee.*

53. Shri Tares Mitra.

*Bangalore Centre*

54. Dr. N. S. Iyengar.

List of Members of Different committees of the Institute

1. *Finance Committee :*

1. Dr. B. P. Adhikari, Director (*Ex-Office Chairman*) 2. Dr. P. K. Bose, Centenary Professor and Head, Department of Statistics, University of Calcutta, 4. Dr. J. Roy, 5. Shri N. Srinivansan, 6. Dr. K. C. Seal 7. Sri N. K. Panida, 8. Dr. K. R. Partha Sarathy, 9. Dr. Ambarish Ghosh, 10. Dr. D. Dutta Mujumdar, 11. Shri Tajan Basu Mallick, Shri P. K. Chatterjee, Senior Accounts Officer, Indian Statistical Institute, (*Non-member Secretary*).

2. *Journal Committee :*

*Editors : Sankhya, Series A and B*

Dr. C. R. Rao and Dr. G. Kallianpur

*Co-editors : Series A :*

1. Dr. J. K. Ghosh, 2. Dr. G. Jogesh Babu, 3. Dr. S. K. Mitra 4. Dr. K. R. Parthasarathy, 5. Dr. B. Ramchandran, 6. Dr. Bimal Kumar Sinha.

*Co-editors : Series B :*

1. Dr. N. Bhattacharya, 2. Dr. S. K. Chakraborty, 3. Dr. Arijit Chaudhuri, 4. Dr. S. K. Mitra, 5. Dr. K. G. Ramamurthi, 6. Dr. J. Roy.

*Members of Journal Committee : Sankhya, series A and B*

1. Dr. R. R. Bahadur, 2. Dr. D. Basu, 3. Dr. S. K. Chatterjee, 4. Dr. Malay Ghosh, 5. Dr. C. G. Khatri, 6. Dr. J. Sathuraman, 7. Dr. S. S. Shrikhande, 8. Dr. S. R. S. Varadhan 9. Dr. R. P. Pakshirajan, 10. Dr. M. N. Murthy, 11. Dr. U. L. S. Prakasa Rao, 12. Dr. Sukhamay Chakraborty.

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The Editors and Co-editors are ex-officio members of the Committee. The Editorial Secretary will function as Convener of the Committee.

### 3. Examinations Committee :

1. Dr. P. K. Bose, Centenary Professor and Head, Department of Statistics, University of Calcutta, 2. Dr. Prasad Kumar Banerjee, Department of Statistics, University of Calcutta, 3. Dr. J. Roy, Indian Statistical Institute, 4. Professor T. V. Avadhani, University of Andhra Pradesh, 5. Officer-in-Charge, Training, Central Statistical Organisation, New Delhi 6. Dr. Ambarish Ghosh, Dean of Studies, Indian Statistical Institute, 7. Dr. B. Ramachandran, Indian Statistical Institute, 8. Professor A. M. Goon, Presidency College, Department of Statistics, Calcutta, 9. Dr. K. G. Ramamurthy, Indian Statistical Institute, 10. Dr. D. K. Bose, Indian Statistical Institute, 11. Shri Tares Maitra, Indian Statistical Institute, (Secretary-Convener).

### 4. Works Advisory Committees for Construction

#### (a) Baranagar, Calcutta :

1. Dr. P. K. Bose, (Chairman) ; 2. Shri S. Bandopadhyay (outside expert) ; 3. Outside expert to be selected by the Committee. 4. Dr. J. Roy, 5. Shri Asish Sen, 6. Dr. D. K. Bose, 7. Shri Somen Chakravarti, 8. Shri Supriya Gupta, 9. Shri V. S. Bhat, 10. Shri Shyam Matai, 11. Shri N. Srinivasan, 12. Shri Biman Bose (Convener).

#### (b) Delhi :

1. Dr. Jagjit Singh, (Chairman), 2. Shri R. S. Panesar, 3. Dr. K. R. Parthasarathy, 4. Shri B. K. Sarkar, 5. Dr. V. K. Chetty, 6. Dr. K. G. Ramamurthy, 7. Dr. B. Ramachandran, 8. One external member to be appointed by the Committee, 9. Shri R. K. Sawbhay, (Convener).

#### (c) Bangalore :

1. Shri C. S. Seshadri, (Chairman) 2. Professor Srinagebhushana, 3. Shri K. G. Katway, 4. Dr. Ganesh Bhattacharyya, 5. Shri C. A. Setty, 6. Dr. N. S. Iyengar, 7. One nominee of the Government of Karnataka, 8. One Engineer-in-Charge to be appointed.

### 5. Technical Advisory Committees of Divisions

#### I. Theoretical Statistics and Mathematics Division

1. Dr. B. P. Adhikari, Director (Chairman) ; 2. Dr. R. P. Paksirajan, Professor and Head, Department of Post-Graduate Studies and Research in Statistics, University of Mysore. 3. Professor M. S. Narashimhan, Professor, School of Mathematics, Tata Institute of Fundamental Research, Bombay. 4. Professor S. R. Adke, Department of

## INDIAN STATISTICAL INSTITUTE

Statistics, University of Poona, Poona. 5. Professor S. K. Chatterjee, Professor of Statistics, University of Calcutta. 6. Professor J. K. Ghosh, Professor-in-Charge (*Convener*).

### II. *Applied Statistics, Surveys and Computing Division*

1. Dr. B. P. Adhikari, Director (*Chairman*); 2. Dr. C. G. Khatri, Professor of Statistics, Gujrat University. 3. Dr. T. V. Avadhani, Professor of Statistics, Andhra University. 4. Dr. K. C. Seal, Director-General, Central Statistical Organisation, Department of Statistics. 5. Dr. S. K. Chatterjee, Professor of Statistics, University of Calcutta. 6. Dr. S. N. Roy, Director, National Sample Surveys Organisation. 7. Dr. E. V. Krishnamurthy, Professor, Department of Applied Mathematics, Indian Institute of Science. 8. Dr. Durga Singh, Director, Indian Agricultural Statistics Research Institute. 9. Dr. R. Sankar, Professor, Computer Science, Indian Institute of Technology, Kanpur. 10. Dr. Amitabha Bhattacharya, Professor, Indian Institute of Management, Calcutta. 11. Dr. Arun Chowdhury, Professor of Computer Science, University of Calcutta. 12. Dr. J. Roy, Professor-in-Charge (*Convener*).

### III. *Social Sciences Division*

1. Dr. B. P. Adhikari, Director (*Chairman*); 2. Professor Bhabatosh Datta, 3. Professor H. K. Paranjape, (Ex-Chairman, Monopolies Restrictive Trade Practices Commission). 4. Professor C. Hanumantha Rao, Institute of Economic Growth, Delhi University. 5. Professor U. Shankar, Professor, Department of Econometrics, Madras University. 6. Professor Asok Mitra, Professor, Centre for Regional Development, Jawaharlal Nehru University. 7. Professor S. J. Poti. 8. Professor Surajit Sinha, Professor of Social Anthropology, Centre for Studies in Social Sciences, Calcutta. 9. Professor Barun De, Director, Centre for Studies in Social Sciences, Calcutta. 10. Professor P. C. Joshi, Institute of Economic Growth, Delhi University. 11. Professor A. E. Harper, Indian Institute of Psychological Measurement, Ewing Christian College, Allahabad. 12. Professor Shib Kumar Mitra, National Council of Educational Research and Training. 13. Professor K. V. Lunayya, National Institute of Bank Management. 14. Professor Bh. Krishnamurthy, Professor of Linguistics, Osmania University, Hyderabad. 15. Professor N. Bhattacharya, Professor-in-Charge (*Convener*).

### IV. *Physical and Earth Sciences Division*

1. Dr. B. P. Adhikari, Director (*Chairman*); 2. Professor S. N. San, Department of Geology, University of Calcutta. 3. Professor A. K. Saha, Head, Department of Geology, Presidency College, Calcutta. 4. Professor R. S. Tewari, Centre of Advanced Study in Geology, Punjab University. 5. Professor B. B. Roy, Emeritus Scientist, ICAR, College of Agriculture, University of Calcutta. 6. Professor A. N. Mitra, Department of Physics, Delhi University. 7. Professor B. R. Nag, Head, Institute of Radio Physics and Electronics, University of Calcutta. 8. Professor J. Das, Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology Kharagpur.

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9. Professor R. K. Verma, Physical Research Laboratory, Ahmedabad. 10. Professor G. Krishna, Chairman, School of Automation, Indian Institute of Science, Bangalore. 11. Professor A. K. Chowdhury, Head, Department of Computer Science, University of Calcutta. 12. Professor M. Dutta, Professor-in-Charge, Satyendra Nath Bose Institute of Physical Science, University of Calcutta. 13. Dr. Tapan Roychowdhury, Professor-in-Charge (Convener).

### V. Biological Sciences Division

1. Dr. B. P. Adhikari, Director (Chairman); 2. Dr. L. D. Sanghvi, Dean, Cancer Research Institute, Tata Memorial Centre, Bombay. 3. Dr. A. J. Baxi, Assistant Director, Haffkine Institute, Bombay. 4. Dr. Narendra Singh, Scientist, Protein Technology Discipline, Central Food Technological Research Institute, Mysore. 5. Dr. Sivatosh Mookerjee, Dean, School of Life Science, Jawaharlal Nehru University. 6. Professor P. N. Bhadhuri, Emeritus Professor (ICAR), Birlha Chandra Krishi Vidyalyaya, Kalyani. 7. Professor B. B. Biswas, Head of the Department of Biochemistry, Bose Institute, Calcutta. 8. Professor J. J. Ghosh, Centenary Professor and Head, Department of Biochemistry, University of Calcutta. 9. Shri H. K. Rakshit, Director, Anthropological Survey of India, Government of India, Indian Museum. 10. Professor I. P. Singh, Head, Department of Anthropology and Dean, Faculty of Science, Delhi University. 11. Dr. A. K. Sharma, Professor and Head, Department of Botany, University of Calcutta. 12. Dr. D. K. Dasgupta, Professor of Crop Physiology, University College of Agriculture, University of Calcutta. 13. Shri S. Maiti, Professor-in-Charge (Convener).

### VI. Statistical Quality Control and Operations Research

1. Dr. B. P. Adhikari, Director (Chairman); 2. Shri P. N. Arumugham, Chief, Quality Assurance, Bharat Heavy Electricals Ltd., New Delhi. 3. Shri Y. K. Bhat, Director of Statistics, Indian Standards Institution, New Delhi. 4. Shri M. V. V. Itaman, Regional Director, National Productivity Council, Madras. 5. Shri G. V. S. Desikan, Chairman, Karala State Textile Corpn. Ltd., Trivandrum. 6. Dr. K. G. Ramamurti, Head, SQC & OR (Convener).

### VII. Library, Documentation and Information Science Division

1. Dr. B. P. Adhikari, Director (Chairman); 2. Dr. A. K. Ohlekar, (Former Chief Librarian, Jadavpur University Library). 3. Shri Himalekundu Guha, Scientist, INSDOC, New Delhi. 4. Shri S. K. Havnur, Librarian, Tata Institute of Fundamental Research, Bombay. 5. Dr. V. A. Kamath, Head, Library & Information Services, Bhabha Atomic Research Centre, Trombay, Bombay. 6. Chief Librarian (Convener).

### Joint Consultative Committees

#### (a) Scientific Workers :

1. Director (Chairman); 2. Dr. J. K. Ghosh; 3. Dr. A. Rudra (representatives of scientific workers nominated by the Director); 4. President or one Vice-President;



INDIAN STATISTICAL INSTITUTE

5. Secretary or Assistant Secretary (Indian Statistical Institute Workers' Organisation).  
Dr. J. K. Ghosh acted as Member-Secretary.

(b) *Non-Scientific Workers :*

1. Director (*Chairman*) ; 2. Dr. D. K. Bose ; 3. Dr. S. L. Jain ; 4. Shri P. K. Chatterjee (representatives of the Administration selected by the Director) ; 5. President ; 6. Secretary ; 7. Vice-President or Treasurer ; 8. Assistant Secretary (Indian Statistical Institute Workers' Organisation). 9. Shri N. Srinivassan, Principal Officer in Charge of Administration acted as *Member-Secretary*.

FORTYNINTH ANNUAL REPORT : 1980-81

Part IV. Statement of Accounts and Auditors' Report for the year 1980-81

AUDITORS' REPORT

We report that we have audited the attached Balance Sheets as at 31st March, 1981 signed by us under reference to this report, of

- (a) Indian Statistical Institute and
- (b) Other Funds

and the annexed Income and Expenditure Accounts for the year ended on that date with the books and records maintained by the Institute and produced to us and information and explanations given and read with the notes appearing thereon and subject to notes nos. 1 (fixed assets), 3 (merger of funds and adjustment of Arrear Claims), 6 (Loans and Advances), 7 (Additional D. A. Deposit with Regional Provident Fund Commissioner), 11 (for Books & Journals), 19 (regrouping of previous year's figures) of Schedules IX and read with other notes of the said Schedule and also subject to the remarks given below, have found them to be in accordance therewith.

The remarks referred to above are :

1. Though National Sample Survey Unit has been separated from the Institute with effect from 1st June, 1972, the consequential changes with regard to Assets and Liabilities taken over by them, have not taken place in the accounts as yet. As such, balance sheet as at 31st March, 1981 of the Indian Statistical Institute and Income & Expenditure Account for year ended on that date do not give a true and fair view to the extent of this unworked out position.

2. Security Deposit :—Rs. 78,356.57 (Dr.)

Receipts of deposits and or confirmation letters could not be produced for our verification, except for deposits of Rs. 36,897.41.

3. In the absence of confirmatory letters, the balances in the following accounts remained unverified (a) Loans and Advances (b) Deposits & other Liabilities.

4. For the purpose of Income and Expenditure Account, the allocations of expenses between plan & non-plan as made by the Institute have been accepted by us.

5. General observation :—

(a) In our opinion the Institute should have an internal audit system and the internal control system should be streamlined.

(b) Institute's revised final budget was approved by "Section 8(f) Committee" with certain modification. Actual non-plan expenditure compares favourable with such budget estimates whereas actual plan expenditure was short by Rs. 13.61 lakhs (approx.) when compared with budget estimates.

(c) The book-keeping offers scope for improvement.

1A, Raja Subodh Mullick Square,  
Calcutta-7000 13  
Dated 9th December, 1981.

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

| As at 31st<br>March 1980 |    | Fund and Liabilities   |  |  |  | As at 31st<br>March 1981 |    |
|--------------------------|----|--|--|--|--|--------------------------|----|
| Rs.                      | P. |  |  |  |  | Rs.                      | P. |
| <b>BALANCE SHEET</b>     |    |  |  |  |  |                          |    |
| 4,91,03,803.43           |    | <b>1. GENERAL FUND :</b>   |  |  |  |                          |    |
|                          |    | As per Schedule VII .. .. .  |  |  |  | 5,64,93,544.28           |    |
| 90,74,919.57             |    | <b>2. OTHER FUNDS :</b>  |  |  |  |                          |    |
|                          |    | As per Schedule IV .. .. .   |  |  |  | 41,92,982.13             |    |
|                          |    | (Excluding Director's Contributory Fund, Indian Statistical Institute Contributory Provident Fund and Funds merged as per Arrear Claims Committees' recommendation). |  |  |  |                          |    |
| 7,20,000.00              |    | <b>3.1 GRANT-IN-AID FOR FLOOD ADVANCE TO STAFF REFUNDABLE TO GOVT. OF INDIA</b>  |  |  |  |                          |    |
|                          |    | As per last account .. .. .  |  |  |  | 7,20,000.00              |    |
| 8,50,000.00              |    | <b>3.2 GRANT-IN-AID FOR HOUSE BUILDING ADVANCE TO STAFF REFUNDABLE TO GOVERNMENT OF INDIA</b>  |  |  |  |                          |    |
|                          |    | As per last account .. .. .  |  |  |  | 8,50,000.00              |    |
|                          |    | Add : during the year .. .. .  |  |  |  | 5,00,000.00              |    |
|                          |    |  |  |  |  |                          |    |
| 1,182.29                 |    | <b>4. ROCKFELLER FOUNDATION GRANT :</b>  |  |  |  |                          |    |
|                          |    | As per contra .. .. .  |  |  |  | 1,182.29                 |    |
| 4,41,086.69              |    | <b>5. FORD FOUNDATION GRANT :</b>  |  |  |  |                          |    |
|                          |    | As per last account .. .. .  |  |  |  | 4,41,086.69              |    |
|                          |    | Add : Excess of income over expenditure as per Annexure-2 .. .. .  |  |  |  | 3,78,371.78              |    |
|                          |    |  |  |  |  | 8,19,458.47              |    |
|                          |    | As per contra  |  |  |  |                          |    |
| 27,98,000.00             |    | <b>6. LOANS FROM OTHER FUNDS :</b>   |  |  |  |                          |    |
|                          |    | As per last account .. .. .  |  |  |  | 27,98,000.00             |    |
|                          |    | Less : adjusted during the year vide note no. 3 of Schedule IX .. .. .   |  |  |  | 27,98,000.00             | -  |
| 10,00,000.00             |    | <b>7. AMOUNT DUE TO ELECTRONIC DATA PROCESSING AND COMPUTATION UNIT ON LOAN ACCOUNT :</b>  |  |  |  |                          |    |
|                          |    | As per last account .. .. .  |  |  |  | 10,00,000.00             |    |
|                          |    | Less : adjusted during the year as per recommendation of Arrear Claims Committee .. .. .   |  |  |  | 10,00,000.00             | -  |
| 51,87,738.98             |    | <b>8. DEPOSITS AND OTHER LIABILITIES</b>   |  |  |  |                          |    |
|                          |    | As per Schedule VIII .. .. .   |  |  |  | 30,68,043.78             |    |
|                          |    | ADDITIONAL EMOLUMENTS COMPULSORY DEPOSIT .. .. .   |  |  |  | 2,62,338.91              |    |
|                          |    |  |  |  |  | 33,30,382.69             |    |
| 72,16,962.52             |    | <b>9. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF CAPITAL EXPENDITURE GRANT :</b>  |  |  |  |                          |    |
|                          |    | As per Schedule IA .. .. .   |  |  |  | 73,58,731.51             |    |
| 7,63,93,693.48           |    | Carried over :   |  |  |  | 7,42,66,281.37           |    |

**FORTYNINTH ANNUAL REPORT : 1980-81**

**AS AT 31ST MARCH 1981**

| As at 31st<br>March 1980 | Property and Assets  |  |  |  | As at 31st<br>March 1981 |
|--------------------------|--|--|--|--|--------------------------|
| Rs. P.                   |  |  |  |  | Rs. P.                   |
| 4,77,08,705.16           | <b>1. FIXED ASSETS :</b>   |  |  |  |                          |
|                          | As per Schedule I : .. .. .  |  |  |  | 5,13,70,973.07           |
| 5,21,014.68              | <b>2. INVESTMENT AT COST .. .. .</b>   |  |  |  | 19,11,059.31             |
|                          | Interest accrued on above. As per Schedule II .. .. .  |  |  |  | 3,73,440.34              |
| 3,98,450.20              | <b>3. STOCK OF BUILDING MATERIALS ETC :</b>  |  |  |  |                          |
|                          | At cost .. .. .  |  |  |  | 7,96,307.32              |
|                          | (Including Materials purchased for construction work<br>Rs. 3,22,241.13 paise and salvaged materials Rs. 673.70 Paise) |  |  |  |                          |
| 1,56,00000               | <b>4. ADVANCE TO OTHER FUNDS : ..</b>  |  |  |  |                          |
|                          | Leave Salary Fund—As per last account .. .. .  |  |  |  | 1,56,000.00              |
|                          | Less : adjusted during the year vide Note No. 3 of Schedule IX .. .. .   |  |  |  | 1,56,000.00              |
| 2,25,425.45              | <b>5. ADDL. DEARNESS ALLOWANCES DEPOSITED WITH<br/>REGIONAL PROVIDENT FUND COMMISSIONER ..</b>                         |  |  |  | 2,49,883.70              |
| 38,86,453.15             | <b>6. LOANS AND ADVANCES :</b>   |  |  |  |                          |
|                          | As per Schedule III .. .. .  |  |  |  | 43,14,454.46             |
| 18,780.76                | <b>7. EFFECT OF PHYSICAL VERIFICATION OF BUILDING<br/>MATERIALS :</b>  |  |  |  |                          |
|                          | As per last account .. .. .  |  |  |  | 18,780.76                |
|                          | Less : adjusted during the year .. .. .  |  |  |  | 18,780.76                |
| 77,53,177.80             | <b>8. AMOUNT CLAIMED/TO BE CLAIMED FROM GOVERNMENT<br/>OF INDIA :</b>  |  |  |  |                          |
|                          | As per last account .. .. .  |  |  |  | 77,53,177.80             |
|                          | Less : adjusted during the year vide Note No. 3 of Schedule IX .. .. .   |  |  |  | 77,53,177.80             |
| 15,93,945.84             | <b>9. AMOUNT RECEIVABLE :</b>  |  |  |  |                          |
|                          | <b>i) FROM COLLECTOR OF CUSTOMS :</b>  |  |  |  |                          |
|                          | As per last account .. .. .  |  |  |  | 15,93,945.84             |
|                          | Less : received during the year .. .. .  |  |  |  | 15,93,945.84             |
|                          | <b>ii) FROM GOVERNMENT OF INDIA ON NON-PLAN GRANT</b>  |  |  |  | 1,50,000.00              |
|                          | <b>iii) FROM GOVT. OF KARNATAKA FOR BANGALORE<br/>CONSTRUCTION GRANT .. .. .</b>                                       |  |  |  | 7,50,000.00              |
| <u>6,22,61,953.04</u>    | Carried over :   |  |  |  | <u>5,97,66,118.20</u>    |

INDIAN STATISTICAL INSTITUTE

BALANCE SHEET

| As at 31st<br>March 1980<br>Rs. P. | Fund and Liabilities   | As at 31st<br>March 1981<br>Rs. P. |
|------------------------------------|--|------------------------------------|
| 7,63,93,693.48                     | Brought forward :  | 7,42,66,281.37                     |
| 13,12,068.27                       | 10. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF PLAN REVENUE EXPENDITURE GRANT RECEIVED FROM GOVT. OF INDIA :          |                                    |
|                                    | As per last account .. .. .  | 13,12,068.27                       |
|                                    | Addition during the year .. .. .   | 13,61,433.01                       |
|                                    |  | 26,73,501.28                       |
|                                    | Less : adjusted during the year .. .. .  | 20,95,582.83                       |
|                                    |  | 5,77,918.45                        |
| 12,09,095.56                       | 11. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF NON-PLAN REVENUE EXPENDITURE :   |                                    |
|                                    | As per last account .. .. .  | 12,09,096.56                       |
|                                    | Addition during the year .. .. .   | 66,165.49                          |
|                                    |  | 12,75,262.05                       |
|                                    | Less : adjusted during the year .. .. .  | 12,09,096.56                       |
|                                    |  | 66,165.49                          |
| 6,17,171.51                        | 12. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF MISC. PROJECT AND ACTIVITIES :   |                                    |
|                                    | As per Schedule V .. .. .  | 8,65,558.12                        |
| 6,49,320.61                        | 13. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF SURVEY RESEARCH CENTRE :   |                                    |
|                                    | As per last account .. .. .  | 6,49,320.61                        |
|                                    | Less : adjusted during the year .. .. .  | 6,49,320.61                        |
|                                    |  | —                                  |
| 51,914.00                          | 14. LIABILITIES FOR BANK GUARANTEE, PAY ORDERS AND NATIONAL SAVINGS CERTIFICATE LODGED BY OUTSIDE PARTIES PER CONTRA .. .. . | 1,79,774.00                        |
|                                    | Schedule Nos. I to IX and Annexure Nos. 2, 3 and 3A forming part of the Balance Sheet as at 31st March 1981.                 |                                    |
| <u>8,02,33,264.43</u>              |  | <u>7,59,55,697.43</u>              |

NOTES : (a) Cash balance in hand includes balance with International House of Japan, Transition Unit in Tokyo amounting to Rs. 7,566.82 at Japanese Yen converted at 2,500/- Yen equivalent to Rs. 100/-.

(b) These accounts do not include the grants of ₹ 85,000/- made by the Fort Foundation to the Institute disbursements thereof (except c.i.f. value of certain equipment amounting to Rs. 81,391.50 included in the Item J of Schedule I) particulars of which are not available.

Sd. P. K. Chatterjee  
Senior Accounts Officer

Sd. N. Srinivasan  
Officer-on-Special Duty  
(Administration & Finance)

Sd. B. P. Adhikari  
Director

FORTYNINTH ANNUAL REPORT : 1980-81

AS AT 31ST MARCH 1981—Contd.

| As at 31st<br>March 1980 |    | Property and Assets  |  | As at 31st<br>March 1981 |              |
|--------------------------|----|--|--|--------------------------|--------------|
| Rs.                      | P. |  |  | Rs.                      | P.           |
| 6,22,61,933.04           |    | Brought forward :  |  | 5,97,66,118.20           |              |
| 90,74,919.57             |    | 10. NET ASSET OF OTHER FUNDS :   |  |                          |              |
|                          |    | As per Schedule IV .. .. .   |  | 41,92,982.13             |              |
|                          |    | (Excluding Director's Contribution Fund, Provident Fund and Funds merged as per Arrear Claims Committees' recommendation).                     |  |                          |              |
| 26,73,948.32             |    | 11. EXCESS OF EXPENDITURE OVER RECEIPTS IN RESPECT OF MISC. PROJECT AND ACTIVITIES ON BEHALF OF THE GOVT. OF INDIA AND OTHER BODIES :          |  |                          |              |
|                          |    | As per Schedule V .. .. .  |  | 27,33,492.53             |              |
| 51,914.00                |    | 12. BANK GUARANTEE, PAY ORDERS AND NATIONAL SAVINGS CERTIFICATES LODGED BY OUTSIDE PARTIES AS PER CONTRA .. .. .                               |  | 1,79,774.00              |              |
| 61,70,529.50             |    | 13. CASH AND BANK BALANCE :  |  |                          |              |
|                          |    | .1 Cash in hand :  |  |                          |              |
|                          |    | As per Schedule VI .. .. .   |  | 37,128.93                |              |
|                          |    | .2 At Bank : On current account with :   |  |                          |              |
|                          |    | (i) American Express International Banking Corporation, Calcutta for Rockefeller Foundation Grant As per contra .. .. .                        |  | 1,182.29                 |              |
|                          |    | (ii) American Express International Banking Corporation, New York for Ford Foundation Grant operated through Head Office as per contra .. .. . |  | 8,08,528.69              |              |
|                          |    | (iii) —do— operated by Delhi branch as per contra .. .. .  |  | 10,929.78                |              |
|                          |    | (iv) Other Bank as per Schedule VI .. .. .   |  | 82,25,560.88             | 90,46,201.64 |
|                          |    |  |  | -----                    | -----        |
|                          |    | 14. NOTES ON ACCOUNTS :  |  |                          |              |
|                          |    | As per Schedule IX enclosed .. .. .  |  |                          |              |
| <u>8,02,33,264.43</u>    |    |  |  | <u>7,59,55,697.43</u>    |              |

This is the Balance Sheet referred to in our report of even date

JA, Raja Subodh Mullick Square,  
Calcutta-700 013  
The 9th December, 1981

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

Income and Expenditure Account

| Previous year                       |    |                |    | Expenditure  | Current year |    |                |             |
|-------------------------------------|----|----------------|----|--|--------------|----|----------------|-------------|
| Plan                                |    | Non-Plan       |    |  | Plan         |    | Non-Plan       |             |
| Rs.                                 | P. | Rs.            | P. |  | Rs.          | P. | Rs.            | P.          |
| <b>1. SALARY &amp; ALLOWANCES :</b> |    |                |    |  |              |    |                |             |
| 8,23,289.84                         |    | 95,03,735.74   |    | .1 Salary & remuneration to teacher etc.   | 4,10,215.57  |    | 1,00,84,900.04 |             |
| —                                   |    | 2,268.00       |    | .2 Dearness Pay .. .. .  | —            |    | 5,578.92       |             |
| 2,42,165.94                         |    | 40,25,586.47   |    | .3 Dearness allowance .. .. .  | 1,36,693.11  |    | 53,95,253.98   |             |
| 73,281.97                           |    | 10,74,392.02   |    | .4 House rent allowance .. .. .  | 30,767.58    |    | 11,47,434.56   |             |
| 29,213.70                           |    | 4,83,895.09    |    | .5 City Compensatory allowance .. .. .   | 12,587.06    |    | 5,14,950.95    |             |
| —                                   |    | 2,600.00       |    | .6 Interim pay .. .. .   | —            |    | 2,276.60       |             |
| —                                   |    | 73,415.31      |    | 1A Leave salary to teaching staff .. .. .  | —            |    | —              |             |
| 47,765.35                           |    | 4,82,838.34    |    | 2.. Overtime allowance .. .. .   | 4,325.87     |    | 4,99,070.22    |             |
| —                                   |    | 600.97         |    | 3. Payment of leave vacancies .. .. .  | —            |    | —              |             |
| 585.50                              |    | 12,727.59      |    | 4. Childrens' education allowance .. .. .  | —            |    | 8,635.50       |             |
| 15,322.15                           |    | 5,62,906.00    |    | 5. Leave travel concession .. .. .   | 2,282.40     |    | 7,57,997.76    |             |
| 4,944.87                            |    | 2,40,330.51    |    | 6.1 Reimbursement of medical expenses .. .. .  | 1,573.92     |    | 2,43,869.81    |             |
| —                                   |    | 3,46,471.37    |    | 2 Expenses on medical welfare to staff, students, research scholar, visiting Professors etc. .. .. .   | —            |    | 526.56         | 4,09,709.66 |
| 2,31,408.71                         |    | 8,79,430.11    |    | 7. Employer's contribution to Provident Fund .. .. .   | 20,499.39    |    | 9,77,987.91    |             |
| —                                   |    | 7,13,725.09    |    | 8. Gratuity Payment .. .. .  | —            |    | 3,16,468.78    |             |
| 3,22,258.77                         |    | 3,49,400.50    |    | 9. Travelling Expenses .. .. .   | 1,41,516.60  |    | 3,87,300.11    |             |
| 18,792.75                           |    | 1,27,230.21    |    | 10. Visiting Professors, Foreign Scientists, fellows and experts .. .. .   | 74,342.43    |    | 1,17,265.32    |             |
| 7,19,583.15                         |    | 5,03,436.98    |    | 11. Scholarship, Stipend and other assistance to trainees .. .. .  | 1,72,185.19  |    | 10,84,064.29   |             |
| —                                   |    | 5,200.00       |    | 12. Prize to workers for initiative .. .. .  | —            |    | 200.00         |             |
| 1,30,358.62                         |    | 1,60,985.11    |    | 13. Machine Tabulation Expenses : Hire and maintenance of tabulating equipment, punches, verifying machine etc. including service charges, freight, Custom and other charges for new machines and cost of cards, cabinets, stores and stationeries .. .. . | 94,816.96    |    | 3,29,937.55    |             |
| 1,69,788.98                         |    | 2,88,404.15    |    | 14. Printing and Publications .. .. .  | 6,749.43     |    | 1,51,085.76    |             |
| 30,967.66                           |    | 1,22,836.43    |    | 15.1 Society type activities (entertainment and conference expenses) .. .. .   | 20,248.55    |    | 1,10,793.01    |             |
| —                                   |    | 43,302.30      |    | .2 Examination expenses .. .. .  | 10,237.15    |    | 58,962.11      |             |
| 4,18,909.80                         |    | 12,13,746.09   |    | 16.1 Books & Journals (including cost of binding etc.) .. .. .   | 4,38,349.09  |    | 14,13,225.87   |             |
| 921.65                              |    | 40,212.78      |    | 2. Microfilm, Photo and audiography expenses .. .. .   | 226.60       |    | 74,339.45      |             |
| 32,79,559.41                        |    | 2,12,59,677.16 |    | Carried over .. .. .   | 15,78,143.46 |    | 2,40,91,308.16 |             |

FORTYNINTH ANNUAL REPORT : 1980-81

for the year ended 31st March, 1981

| Previous year |    |                |    | Income  | Current year |    |                |    |
|---------------|----|----------------|----|---|--------------|----|----------------|----|
| Plan          |    | Non-Plan       |    |   | Plan         |    | Non-Plan       |    |
| Rs.           | P. | Rs.            | P. |   | Rs.          | P. | Rs.            | P. |
| —             |    | 2,48,80,000.00 |    | 1.1 Grants-in-aid from Government of India for non-plan current expenditure .. .. | —            |    | 2,76,50,000.00 |    |
| —             |    | 3,50,000.00    |    | Less : Earmarked for house Building Loan .. ..                                    | —            |    | 5,00,000.00    |    |
|               |    | 2,45,30,000.00 |    |   |              |    | 2,71,50,000.00 |    |
| 40,50,000.00  |    | —              |    | 2 For Plan current expenditure .. ..  | 39,50,000.00 |    |                |    |
|               |    |                |    | 2. Received from Non-Government sources   |              |    |                |    |
|               |    |                |    | 1 In respect of SQC : Membership fees, training service charges etc. .. ..        | 14,54,104.99 |    |                |    |
| —             |    | 7,00,000.00    |    | Less : transferred to SQC Development Fund .. ..                                  | 7,54,104.99  |    | 7,00,000.00    |    |
|               |    |                |    | 2 In respect of RTS and other activities ..                                       |              |    |                |    |
| —             |    | 17,516.33      |    | a) Membership subscription .. ..  | —            |    | 17,284.95      |    |
| —             |    | 1,65,440.79    |    | b) Fees for training course and sale proceeds of Syllabus etc. .. ..              | —            |    | 1,11,404.10    |    |
| —             |    | 10,152.00      |    | c) Examination fee and other receipts .. ..                                       | —            |    | 10,009.00      |    |
| —             |    | 11,146.17      |    | d) Receipts from produce at Giridih experimental farm etc. .. ..                  | —            |    | 11,005.96      |    |
| —             |    | 33,934.27      |    | e) Service charges for work done by Psychometry, Computer Science Unit etc. .. .. | —            |    | 30,808.77      |    |
| —             |    | 29,926.08      |    | f) Miscellaneous receipts .. ..   | —            |    | 2,57,728.19    |    |
| —             |    | 125.00         |    | g) Sale proceeds of Calcutta Fertility Survey report .. ..                        | —            |    | —              |    |
| 40,50,000.00  |    | 2,54,98,240.64 |    | Carried over .. ..  | 39,50,000.00 |    | 2,82,88,240.97 |    |



INDIAN STATISTICAL INSTITUTE

| Previous year       |    |                       |      | Income and Expenditure Account  |                     |                       |    |
|---------------------|----|-----------------------|------|---|---------------------|-----------------------|----|
| Plan                |    | Non-plan              |      | Expenditure   |                     |                       |    |
| Current year        |    | Non-plan              |      |   |                     |                       |    |
| Rs.                 | P. | Rs.                   | P.   | Rs.   | P.                  | Rs.                   | P. |
| 32,79,559.41        |    | 2,12,59,677.16        |      | Brought forward ..  |                     |                       |    |
| 10,100.34           |    | 1,70,293.20           |      | 17. Repairs, replacement and maintenance of Office Equipment, furniture & accessories ..  | 5,748.53            | 1,92,419.14           |    |
| 43,370.35           |    | 6,72,475.72           | 18.1 | Stationaries & consumable Stores ..   | 1,08,639.06         | 5,51,834.03           |    |
| 27,514.53           |    | 3,92,935.08           |      | 2. Other misc. expenses viz. advertisement, insurance premium, labour charges, coolie and cartage, conveyance and petty expenses like hot weather contingencies etc. ..                                     | 29,383.98           | 2,36,950.58           |    |
|                     |    |                       |      | 19. Other non-salary contingencies : ..   |                     |                       |    |
| 21,497.71           |    | 11,83,671.64          |      | .1 Postal & M.O. charges, air and railway freight electric, telephone charges and generator maintenance ..  | 4,64,232.12         | 12,07,915.99          |    |
| —                   |    | 22,024.60             |      | .2 Audit fee and expenses ..  | —                   | 25,480.00             |    |
| —                   |    | 11,092.71             |      | .3 Interest and Bank Charges ..   | —                   | 14,790.47             |    |
| 5,29,746.01         |    | 9,35,676.38           |      | 20. House rent, rates and taxes (including those of outstation office) ..   | 2,65,410.80         | 8,74,872.88           |    |
| 4,059.22            |    | 5,02,964.75           |      | 21. Repair and/or maintenance of building, land etc. and petty construction etc. (including Rs. 18,780.76 paise towards effect of physical verification on account of handling losses of earlier years.) .. | 2,002.76            | 4,52,028.48           |    |
| 44,165.06           |    | 2,23,802.03           |      | 22. Transport ..  | 86,377.77           | 2,79,858.03           |    |
| 147.30              |    | 1,23,465.15           |      | 23. Workers' welfare and amenities (excluding reimbursement of medical expenses) ..   | —                   | 1,57,057.22           |    |
| —                   |    | 4,050.00              |      | 24. Director's discretionary expenses ..  | —                   | 400.00                |    |
| 89,751.29           |    | 90,852.04             |      | 25.1 Laboratory stores, tools and minor accessories ..  | 48,628.51           | 1,05,049.97           |    |
| —                   |    | 21,672.28             |      | .2 Materials & other charges for experimental farming and rice research scheme ..   | —                   | 32,110.53             |    |
| <u>40,49,411.22</u> |    | <u>2,56,14,652.74</u> |      | Carried over  |                     |                       |    |
|                     |    |                       |      |   | <u>25,88,566.99</u> | <u>2,82,22,075.48</u> |    |

PORTYNINTH ANNUAL REPORT : 1980-81

for the year ended 31st March, 1981

| Previous year |    |                |    | Income          | Current year |              |          |                |  |
|---------------|----|----------------|----|-----------------|--------------|--------------|----------|----------------|--|
| Plan          |    | Non-Plan       |    |                 | Plan         |              | Non-Plan |                |  |
| Rs.           | P. | Rs.            | P. |                 | Rs.          | P.           | Rs.      | P.             |  |
| 40,50,000.00  |    | 2,54,98,240.64 |    | Brought forward | ..           | 39,50,000.00 |          | 2,82,88,240.97 |  |

40,50,000.00    2,54,98,240.64

Carried over    ..    39,50,000.00    2,82,88,240.97

## INDIAN STATISTICAL INSTITUTE

|               |    |                |    | Income and Expenditure Account                                     |              |    |                |    |
|---------------|----|----------------|----|--|--------------|----|----------------|----|
| Previous year |    |                |    | Expenditure  | Current year |    |                |    |
| Plan          |    | Non-Plan       |    |  | Plan         |    | Non-Plan       |    |
| Rs.           | P. | Rs.            | P. |  | Rs.          | P. | Rs.            | P. |
| 40,49,411.22  |    | 2,56,14,652.74 |    | Brought forward  | 25,88,566.99 |    | 2,82,22,075.48 |    |
| —             |    | 1,76,888.71    |    | 26. Expenditure for Miscellaneous Project (As per annexure No. 1)  | —            |    | 1,84,031.42    |    |
|               |    |                |    | 27. Excess of Income over Expenditure transferred to Balance Sheet | 13,61,433.01 |    | 2,76,694.19    |    |
| 588.78        |    | —              |    | In respect of :  |              |    |                |    |
|               |    |                |    | Non-Plan Govt. grant   | 66,165.49    |    |                |    |
|               |    |                |    | Misc. Project Sector   | 2,10,528.79  |    |                |    |
|               |    |                |    | Rs.  | 2,76,694.19  |    |                |    |
| 40,50,000.00  |    | 2,57,91,541.45 |    |  | 39,50,000.00 |    | 2,86,82,801.89 |    |

- NOTES : (a) Expenditure for visiting Scientists and Scholars to and from India are met out of Ford Foundation Grant paid directly through American Express Banking Corporation, New York in U.S. \$ and Grant of the Institute directly credited to the aforesaid Bank Account by the Sponsoring Authority in U.S. \$ Hence same is excluded from the Income and Expenditure Account and it is regrouped and rearranged accordingly.
- (b) This account does not include the transactions in respect of International Statistical Education Centre Colombo Plan Fellowship net effect of which has been given in the Balance Sheet (vide Schedule II enclosed).
- (c) An amount of Rs. 28,68,548.97 being depreciation on Fixed Assets has been adjusted in General Fund.
- (d) In accordance with the consistent practice, the cost of cards, cabinets, stationeries and stores etc. have been written off in this account and any stocks in hand as on 31st March 1981 have not been treated as Balance Sheet.
- (e) In accordance with previous practice, certain transactions have been included in these accounts on cash basis.
- (f) Payment of Leave Salary and Gratuity to ISI workers and NSSO workers are considered on cash basis.
- (g) This account includes transaction in respect of earlier years which have not been segregated and shown separately.

P. K. Chatterjee  
Senior Accounts Officer

N. Srinivasan  
Officer-on-Special Duty  
(Administration & Finance)

B. P. Adhikari  
Director

PORTYNINTH ANNUAL REPORT : 1980-81

for the year ended 31st March 1981—Contd.

| Previous year |    |                |    | Expenditure  | Current year |              |                |    |  |
|---------------|----|----------------|----|--|--------------|--------------|----------------|----|--|
| Plan          |    | Non-Plan       |    |  | Plan         |              | Non-Plan       |    |  |
| Rs.           | P. | Rs.            | P. |  | Rs.          | P.           | Rs.            | P. |  |
| 40,50,000.00  |    | 2,54,98,240.64 |    | Brought forward  | ..           | 39,50,000.00 | 2,82,88,240.97 |    |  |
| —             |    | 1,65,796.54    |    | 3. Grant-in-aid for Miscellaneous Project (As per annexure No. 1)                      | ..           | —            | 3,94,560.12    |    |  |
| —             |    | 1,27,504.27    |    | 4. Excess of expenditure over income allocated to different sectors as per Schedule XI | ..           | —            | —              |    |  |
| <hr/>         |    |                |    |  | <hr/>        |              |                |    |  |
| 40,50,000.00  |    | 2,57,91,541.45 |    |  |              | 39,50,000.00 | 2,86,82,801.09 |    |  |

1A, Raja Subodh Mullick Square,  
Calcutta 700 013  
The 9th December, 1981

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

| particulars<br><br>(1)                                       | Schedule of Fixed Assets                          |    |  |    |   |
|--|---|----|--|----|---|
|  | written down<br>value as on<br>31st March<br>1980 |    | deletions/<br>adjustments<br>made during<br>the year |    | value after<br>deletions/<br>adjustment<br>(col. 2-3) |
|  | Rs.   | P. | Rs.  | P. | Rs. P.  |
| <b>A. Land and Land Development :</b>                        |   |    |  |    |   |
| <b>1. Calcutta :</b>   |   |    |  |    |   |
| .1 At 153, Copal Lal Tagore Road (adjoining 203, B. T. Road) | 65,545.90   |    | —  |    | 65,545.90   |
| .2 Development of above land .. .. .                         | 40,524.76   |    | —  |    | 40,524.76   |
| .3 At 205, B. T. Road (including cost of development) ..     | 4,38,915.700                                      |    | —  |    | 4,38,915.70   |
| .4 At 156, 164, 165 & 166/1, Copal Lal Tagore Road ..        | 96,663.71   |    | —  |    | 96,663.71   |
| .5 Development of above Lands .. .. .                        | 6,618.51  |    | —  |    | 5,618.51  |
| .6 At 206, B. T. Road (including cost of development) ..     | 21,36,174.64                                      |    | —  |    | 21,36,174.64  |
| .7 At 202, B. T. Road .. .. .                                | 5,79,104.75                                       |    | —  |    | 5,79,104.75   |
| .8 At 203, B. T. Road (Supervision fee fund) .. .. .         | —   |    | —  |    | —   |
| .9 Bidyayan Saran- .. .. .                                   | —   |    | —  |    | —   |
| .10 169, G. L. T. Road .. .. .                               | —   |    | —  |    | —   |
| <b>2. Giridih :</b>  |   |    |  |    |   |
| .1 Farm Land .. .. .   | 9,514.51  |    | —  |    | 9,514.51  |
| .2 Development and fencing etc. .. .. .                      | 29,689.55   |    | —  |    | 29,689.55   |
| .3 Farming Development .. .. .                               | 10,682.00   |    | —  |    | 10,682.00   |
| .4 Irrigation & Water Supply .. .. .                         | 25,610.00   |    | —  |    | 25,610.00   |
| .5 In village "Makatpur" Giridih .. .. .                     | 1,34,636.67                                       |    | —  |    | 1,34,636.67   |
| .6 Purchased from Smt. Prakriti Devi Gangopadhyaa ..         | 14,000.00   |    | —  |    | 14,000.00   |
| .7 Rose Ville (Supervision fee fund) .. .. .                 | —   |    | —  |    | —   |
| .8 Biroja Kutir (-do-) .. .. .                               | —   |    | —  |    | —   |
| <b>3. Delhi :</b>  |   |    |  |    |   |
| .1 Leasehold .. .. .   | 24,72,764.12                                      |    | —  |    | 24,72,764.12  |
| .2 Development of above land .. .. .                         | 45,950.52   |    | —  |    | 45,950.52   |
| 4. Baroda .. .. .  | 27,611.32   |    | —  |    | 27,611.32   |
| 5. Bangalore : .. (see note (a) below) ..                    | 47,558.25   |    | —  |    | 47,558.25   |
| 6. Hyderabad : .. .. .                                       | 1,14,385.00                                       |    | —  |    | 1,14,385.00   |
| 7. Madras : .. .. .  | 71,562.50   |    | —  |    | 71,562.50   |
| 8. Takda Planters Club .. .. .                               | —   |    | —  |    | —   |
| Sub-total : .. .. .  | 63,67,512.41                                      |    | —  |    | 63,67,512.41  |

FORTYNINTH ANNUAL REPORT : 1980-81

SCHEDULE I

as on 31st March 1981

| Depreciation for the year |        | Net value    |           | Addition during the year |    |                |    |               |    |             |    | Written down |    |
|---------------------------|--------|--------------|-----------|--------------------------|----|----------------|----|---------------|----|-------------|----|--------------|----|
| Rate %                    | amount | (col. 4-5.1) |           | Out of capital           |    | Out of current |    | Tr. from fund |    | Total       |    | value as on  |    |
| (5.0)                     | (5.1)  | (6)          |           | (7.0)                    |    | (7.1)          |    | (7.2)         |    | (7.3)       |    | (col. 6+7.3) |    |
|                           | Rs. P. | Rs.          | P.        | Rs.                      | P. | Rs.            | P. | Rs.           | P. | Rs.         | P. | Rs.          | P. |
| —                         | —      | —            | —         | —                        | —  | —              | —  | —             | —  | —           | —  | —            | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | —             | —  | —           | —  | —            | —  |
| —                         | —      | 65,545.90    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 65,545.90    | —  |
| —                         | —      | 40,524.76    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 40,524.76    | —  |
| —                         | —      | 4,38,915.70  | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 4,38,915.70  | —  |
| —                         | —      | 96,663.71    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 96,663.71    | —  |
| —                         | —      | 6,618.51     | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 6,618.51     | —  |
| —                         | —      | 21,36,174.64 | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 21,36,174.64 | —  |
| —                         | —      | 5,79,104.75  | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 5,79,104.75  | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | 97,556.95     | —  | 97,556.95   | —  | 97,556.95    | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | 50,000.00     | —  | 50,000.00   | —  | 50,000.00    | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | 1,03,855.00   | —  | 1,03,855.00 | —  | 1,03,855.00  | —  |
| —                         | —      | 9,514.51     | —         | —                        | —  | —              | —  | 14,661.16     | —  | 14,661.16   | —  | 24,175.67    | —  |
| —                         | —      | 29,689.55    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 29,689.55    | —  |
| —                         | —      | 10,682.00    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 10,682.00    | —  |
| —                         | —      | 25,610.00    | 2,605.00  | —                        | —  | —              | —  | —             | —  | 2,605.00    | —  | 28,215.00    | —  |
| —                         | —      | 1,34,636.67  | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 1,34,636.67  | —  |
| —                         | —      | 14,000.00    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 14,000.00    | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | 1,07,502.72   | —  | 1,07,502.72 | —  | 1,07,502.72  | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | 7,445.19      | —  | 7,445.19    | —  | 7,445.19     | —  |
| —                         | —      | 24,72,764.12 | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 24,72,764.12 | —  |
| —                         | —      | 45,950.52    | 17,800.15 | —                        | —  | —              | —  | —             | —  | 17,800.15   | —  | 63,750.67    | —  |
| —                         | —      | 27,611.32    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 27,611.32    | —  |
| —                         | —      | 47,558.25    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 47,558.25    | —  |
| —                         | —      | 1,14,385.00  | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 1,14,385.00  | —  |
| —                         | —      | 71,562.50    | —         | —                        | —  | —              | —  | —             | —  | —           | —  | 71,562.50    | —  |
| —                         | —      | —            | —         | —                        | —  | —              | —  | 17,812.36     | —  | 17,812.36   | —  | 17,812.36    | —  |
| —                         | —      | 63,67,512.41 | 20,405.15 | —                        | —  | —              | —  | 3,98,833.38   | —  | 4,19,238.53 | —  | 67,86,750.94 | —  |

**INDIAN STATISTICAL INSTITUTE**

**Schedule of Fixed Assets**

| Particulars  | Written down<br>value as on<br>31st March<br>1980 |     | Deductions/<br>adjustment<br>made during<br>the year |     | Value after<br>deductions/<br>adjustment<br>(col. 2-3) |     |
|--|---|-----|--|-----|--|-----|
|  | (1)   | (2) | (3)  | (4) | (5)  | (6) |
|  | Rs.   | P.  | Rs.  | P.  | Rs.  | P.  |
| <b>B. Buildings :</b>  |   |     |  |     |  |     |
| <b>1. Calcutta :</b>   |   |     |  |     |  |     |
| .1 Partly at 203, B. T. Road and partly at 153 G.L.T. Road<br>(Main Building) .. .. .  | 6,99,192.81                                       | —   | —  | —   | 6,99,192.81  | —   |
| .2 At 153, Gopal Lal Tagore Road .. .. .   | 8,58,632.61                                       | —   | —  | —   | 8,58,632.61  | —   |
| .3 At 205, B. T. Road .. .. .  | 17,87,417.33                                      | —   | —  | —   | 17,87,417.33   | —   |
| .4 At 206, B. T. Road .. .. .  | 1,29,742.64                                       | —   | —  | —   | 1,29,742.64  | —   |
| .5 Boy's Hostel at 206, B. T. Road (work completed) .. .. .                            | 25,17,526.16                                      | —   | 2,33,495.61  | —   | 22,84,030.55   | —   |
| .6 At 202, B. T. Road .. .. .  | 44,808.12   | —   | —  | —   | 44,808.12  | —   |
| .7 Purchase of flats at Palpore Housing Estate .. .. .                                 | 1,61,670.49                                       | —   | —  | —   | 1,61,670.49  | —   |
| .8 Composite Library Building at 202, B. T. Road .. .. .                               | —   | —   | —  | —   | —  | —   |
| (a) Completed Work (see note 'f' below) .. .. .  | 80,63,502.84                                      | —   | 1,16,929.49  | —   | 79,46,573.35   | —   |
| (b) Work-in-Progress (see note 'e' below) .. .. .                                      | 11,850.00   | —   | —  | —   | 11,850.00  | —   |
| .9 Boundary Wall .. .. .   | 74,606.83   | —   | —  | —   | 74,606.83  | —   |
| .10 Generator's House at 203, B. T. Road .. .. .                                       | 28,044.20   | —   | —  | —   | 28,044.20  | —   |
| .11 At 169, Gopal Lal Tagore Road .. .. .  | —   | —   | —  | —   | —  | —   |
| .12 At Bidyayan Sarani, Baranagar .. .. .  | —   | —   | —  | —   | —  | —   |
| <b>2. Giridih :</b>  |   |     |  |     |  |     |
| .1 Rose Villa, Giridih (see note 'e' below) .. .. .                                    | —   | —   | —  | —   | —  | —   |
| .2 Health Home, Giridih 'g' below .. .. .  | —   | —   | —  | —   | —  | —   |
| <b>3. Dibrui Construction :</b>  |   |     |  |     |  |     |
| (a) Completed Work (see note 'd' below) .. .. .  | 56,47,455.69                                      | —   | —  | —   | 56,47,455.69   | —   |
| (b) Work-in-Progress (see note 'c' below) .. .. .                                      | —   | —   | —  | —   | —  | —   |
| .4 Hyderabad Wall : .. .. .  | 1,417.46  | —   | —  | —   | 1,417.46   | —   |
| Sub-total: .. .. .   | 2,00,25,867.18                                    | —   | 3,50,425.10  | —   | 1,96,75,442.08   | —   |
| <b>C. Sheds &amp; Structures :</b>   |   |     |  |     |  |     |
| <b>1. Calcutta :</b>   |   |     |  |     |  |     |
| .1 203, B. T. Road and 153, Gopal Lal Tagore Road .. .. .                              | 35,160.91   | —   | —  | —   | 35,160.91  | —   |
| .2 At 205, B. T. Road .. .. .  | 39,828.24   | —   | —  | —   | 39,828.24  | —   |
| .3 At 156, 164 & 165, 166/1, G. L. T. Road .. .. .                                     | 21,546.21   | —   | —  | —   | 21,546.21  | —   |
| .4 At 202, B. T. Road .. .. .  | 1,60,180.46                                       | —   | —  | —   | 1,60,180.46  | —   |
| .5 At 5, R. N. Tagore Road (for UNTAA workshop situated<br>on rental premises) .. .. . | 1,26,401.60                                       | —   | —  | —   | 1,26,401.60  | —   |
| .6 Car Shed at 169, G. L. T. Road .. .. .  | 66,772.50   | —   | —  | —   | 66,772.50  | —   |
| .7 Staff Quarters at Bidyayan Sarani (work-in-progress) .. .. .                        | —   | —   | —  | —   | —  | —   |
| .8 Student's Hostel at 206, B. T. Road .. .. .   | —   | —   | —  | —   | —  | —   |
| .9 169, G. L. T. Road, Baranagar .. .. .   | —   | —   | —  | —   | —  | —   |
| .10 Post Office at 204, B. T. Road .. .. .   | —   | —   | —  | —   | —  | —   |
| .11 Bidyayan Sarani, Baranagar .. .. .   | —   | —   | —  | —   | —  | —   |

FORTYNINTH ANNUAL REPORT : 1980-81

SCHEDULE 1—Contd.

as on 31st March 1981

| Depreciation for the year |             | Net value      |              | Additions during the year        |                                  |                       |                         | Written down value as on     |        |
|---------------------------|-------------|----------------|--------------|----------------------------------|----------------------------------|-----------------------|-------------------------|------------------------------|--------|
| Rate %                    | Amount      | (col. 4-5.1)   |              | Out of capital Expenditure Grant | Out of current Expenditure Grant | Tr. from fund Sources | Total (col. 7.0 to 7.2) | 31st March 1981 (col. 6+7.3) |        |
| (5.0)                     | (5.1)       | (6)            | (7.0)        | (7.1)                            | (7.2)                            | (7.3)                 | (8)                     |                              |        |
|                           | Rs. P.      | Rs. P.         | Rs. P.       | Rs. P.                           | Rs. P.                           | Rs. P.                | Rs. P.                  | Rs. P.                       | Rs. P. |
| 2.5%                      | 17,479.82   | 6,81,712.99    | 9,640.08     | —                                | —                                | —                     | 9,640.08                | 6,91,353.07                  |        |
| "                         | 21,465.82   | 8,37,166.79    | —            | —                                | —                                | —                     | —                       | 8,37,166.79                  |        |
| "                         | 44,685.43   | 17,42,731.90   | 26,300.89    | —                                | —                                | —                     | 26,300.89               | 17,69,032.79                 |        |
| "                         | 3,243.57    | 1,26,499.07    | —            | —                                | —                                | —                     | —                       | 1,26,499.07                  |        |
| "                         | —           | 22,84,030.55   | 35,706.14    | —                                | —                                | —                     | 35,706.14               | 23,19,736.69                 |        |
| 2.5%                      | 1,120.20    | 43,687.92      | —            | —                                | —                                | —                     | —                       | 43,687.92                    |        |
| "                         | 7,105.56    | 1,54,563.93    | 1,22,590.80  | —                                | —                                | —                     | 1,22,590.80             | 2,77,154.73                  |        |
| "                         | 1,96,811.87 | 77,49,761.48   | —            | —                                | —                                | —                     | —                       | 77,49,761.48                 |        |
| "                         | —           | 11,850.00      | 12,29,940.20 | —                                | —                                | —                     | 12,29,940.20            | 12,41,790.20                 |        |
| 7.5%                      | 5,595.51    | 69,011.32      | —            | —                                | —                                | —                     | —                       | 69,011.32                    |        |
| 2.5%                      | 701.11      | 27,343.09      | —            | —                                | —                                | —                     | —                       | 27,343.09                    |        |
| "                         | —           | —              | —            | —                                | —                                | 16,483.78             | 16,483.78               | 16,483.78                    |        |
| "                         | —           | —              | —            | —                                | —                                | 7,932.56              | 7,932.56                | 7,932.56                     |        |
| "                         | —           | —              | —            | —                                | —                                | 2,22,403.89           | 2,22,403.89             | 2,22,403.89                  |        |
| "                         | —           | —              | —            | —                                | —                                | 9,177.39              | 9,177.29                | 9,177.29                     |        |
| 2.5%                      | 1,41,186.40 | 55,06,269.29   | 76,259.02    | —                                | —                                | —                     | 76,259.02               | 55,82,528.31                 |        |
| "                         | —           | —              | —            | 3,80,722.11                      | —                                | —                     | 3,80,722.11             | 3,80,722.11                  |        |
| "                         | 35.44       | 1,382.02       | —            | —                                | —                                | —                     | —                       | 1,382.02                     |        |
| —                         | 4,39,430.73 | 1,92,36,010.35 | 18,81,159.24 | —                                | —                                | 2,55,997.52           | 21,37,156.76            | 2,13,73,167.11               |        |
| 7.5%                      | 2,637.07    | 32,523.84      | —            | —                                | —                                | —                     | —                       | 32,523.84                    |        |
| "                         | 2,987.12    | 36,841.12      | 28,073.72    | —                                | —                                | —                     | 28,073.72               | 64,914.84                    |        |
| "                         | 1,615.97    | 19,930.24      | —            | —                                | —                                | —                     | —                       | 19,930.24                    |        |
| "                         | 12,013.53   | 1,48,166.93    | —            | —                                | —                                | —                     | —                       | 1,48,166.93                  |        |
| "                         | 9,480.12    | 1,16,921.48    | —            | —                                | —                                | —                     | —                       | 1,16,921.48                  |        |
| "                         | 5,007.93    | 61,764.57      | 27,507.29    | —                                | —                                | —                     | 27,507.29               | 89,271.86                    |        |
| "                         | —           | —              | 62,768.32    | —                                | —                                | —                     | 62,768.32               | 62,768.32                    |        |
| "                         | —           | —              | —            | —                                | —                                | 60,183.19             | 60,183.19               | 60,183.19                    |        |
| "                         | —           | —              | —            | —                                | —                                | 26,306.51             | 26,306.51               | 26,306.51                    |        |
| "                         | —           | —              | —            | —                                | —                                | 196.63                | 196.63                  | 196.63                       |        |
| "                         | —           | —              | —            | —                                | —                                | 511.22                | 511.22                  | 511.22                       |        |



INDIAN STATISTICAL INSTITUTE

| Particulars  | Schedule of Fixed Assets                 |              |   |             |   |              |
|--|--|--------------|---|-------------|---|--------------|
|  | written down value as on 31st March 1980 |              | deletions/adjustment made during the year |             | value after deletions/adjustment (col. 2-3) |              |
|  | (1)                                      | (2)          | (3)                                       | (4)         | (5)   | (6)          |
|  | Ra.                                      | P.           | Ra.                                       | P.          | Ra.   | P.           |
| Brought forward .. .. .  |  |              | —   | —           |   |              |
| 2. Petty construction at Giridih :   |  |              |   |             |   |              |
| 3. Delhi :   |  |              |   |             |   |              |
| .1 Partitions, structures etc. .. .. .   |  | 6,970.11     |   |             |   | 6,970.11     |
| .2 Erection of Nissen hut .. .. .  |  | 543.39       |   | (—)543.39   |   | —            |
| .3 Hut for a Chowkidar .. .. .   |  | 706.47       |   | —           |   | 706.47       |
| 4. Hyderabad : Hutment for Chowkidar .. .. .                                       |  | 2,670.22     |   | —           |   | 2,670.22     |
| Sub-total : .. .. .  |  | 4,60,780.11  |   | (—)543.39   |   | 4,60,236.72  |
| D. Machinery & Equipments :  |  |              |   |             |   |              |
| .1 Calculating, Punching and other tabulating equipment                            |  | 5,22,225.23  |   | —           |   | 5,22,225.23  |
| .2 Office machinery & equipment .. .. .  |  | 7,69,771.16  |   | —           |   | 7,69,771.16  |
| .3 Workshop machinery & equipment .. .. .  |  | 8,184.85     |   | —           |   | 8,184.85     |
| .4 Microfilm, photo, reprography and optical equipment .. .. .                     |  | 3,00,152.10  |   | —           |   | 3,00,152.10  |
| .5 Laboratory equipment .. .. .  |  | 11,99,583.86 |   | (—)805.56   |   | 11,98,778.30 |
| .6 Construction equipment .. .. .  |  | 3,890.06     |   | —           |   | 3,890.06     |
| .7 UNTAA Workshop machinery and equipment .. .. .                                  |  | 8,550.17     |   | —           |   | 8,550.17     |
| .8 Electronic Computer (MEC-2M) and other tabulating equipment                     |  | 10,480.05    |   | —           |   | 10,480.05    |
| .9 Mini Computer at Delhi .. .. .  |  | 2,00,642.37  |   | —           |   | 2,00,642.37  |
| .10 Electronic Computer at Baranagar .. .. .                                       |  | 25,79,332.63 |   | —           |   | 25,79,332.63 |
| .11 Honeywell Computer (H-400) .. .. .   |  | —            |   | —           |   | —            |
| Sub-Total : .. .. .  |  | 56,02,812.48 |   | (—)805.56   |   | 56,02,006.92 |
| E. Passenger Lift (Completed) .. .. .  |  | 26,347.70    |   | —           |   | 26,347.70    |
| -do- (Work-in-progress) .. .. .  |  | —            |   | —           |   | —            |
| F. Electrical equipment & installation :   |  |              |   |             |   |              |
| .1 High tension electricity .. .. .  |  | 77,848.87    |   | —           |   | 77,848.87    |
| .2 Electrical equipment & fittings .. .. .   |  | 21,76,999.26 |   | —           |   | 21,76,999.26 |
| .3 High tension electricity for UNTAA Workshop .. .. .                             |  | 18,245.59    |   | —           |   | 18,245.59    |
| .4 Electrical installation for flume laboratory .. .. .                            |  | 10,760.04    |   | —           |   | 10,760.04    |
| .5 Equipment for Air-conditioning plant for Composite Library Building .. .. .     |  | 6,31,802.18  |   | (—)7,342.54 |   | 6,24,459.64  |
| .6 Air conditioning plant for Honeywell Computer .. .. .                           |  | —            |   | —           |   | —            |
| .7 Electrical installation and fittings for Composite Library Building .. .. .     |  | 3,64,704.46  |   | —           |   | 3,64,704.46  |
| .8 Electrical installation and fittings for Boy's Hostel at 206 B. T. Road .. .. . |  | 1,22,127.60  |   | —           |   | 1,22,127.60  |
| .9 Electrical installation for Honeywell Computer .. .. .                          |  | —            |   | —           |   | —            |
| Sub-total : .. .. .  |  | 34,02,488.00 |   | (—)7,342.54 |   | 33,95,145.46 |

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SCHEDULE I—Contd.

| As on 31st March 1981 |              | depreciation for the year |    |                                  |                                  |                       |                         |  | As on 31st March 1981 |              |    |     |              |
|-----------------------|--------------|---------------------------|----|----------------------------------|----------------------------------|-----------------------|-------------------------|--|-----------------------|--------------|----|-----|--------------|
| rate %                | amount       | net value (col. 4-5.1)    |    | additions during the year        |                                  |                       |                         | written down value as on 31st March 1981 (col. 6+7.3). |                       |              |    |     |              |
|                       |              | Rs.                       | P. | out of capital expenditure grant | out of current expenditure grant | tr. from fund sources | total (col. 7.0 to 7.2) | Rs.  | P.                    |              |    |     |              |
| (5.0)                 | (5.1)        | (6)                       |    | (7.0)                            |                                  | (7.1)                 |                         | (7.2)  |                       | (7.3)        |    | (8) |              |
|                       |              | Rs.                       | P. | Rs.                              | P.                               | Rs.                   | P.                      | Rs.  | P.                    | Rs.          | P. | Rs. | P.           |
| —                     | —            | —                         | —  | —                                | —                                | —                     | —                       | 2,369.60   | —                     | 2,369.60     | —  | —   | —            |
| 7.5%                  | 522.76       | —                         | —  | 6,447.35                         | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 6,447.35     |
| "                     | 52.99        | —                         | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 653.48       |
| "                     | 200.27       | —                         | —  | 2,469.93                         | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 2,469.95     |
| —                     | 34,517.76    | 4,25,718.96               | —  | 1,18,349.33                      | —                                | —                     | —                       | 89,567.15  | —                     | 2,07,916.48  | —  | —   | 6,33,635.44  |
| 15%                   | 78,333.78    | 4,43,891.45               | —  | 33,029.54                        | —                                | —                     | —                       | 667.79   | —                     | 33,697.33    | —  | —   | 4,77,588.78  |
| "                     | 1,15,465.67  | 6,54,305.49               | —  | 1,62,939.62                      | —                                | —                     | —                       | 543.29   | —                     | 1,63,482.91  | —  | —   | 8,17,788.40  |
| "                     | 1,227.73     | 6,959.12                  | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 6,957.12     |
| "                     | 45,022.82    | 2,55,129.28               | —  | 31,977.40                        | —                                | —                     | —                       | —  | —                     | 31,977.40    | —  | —   | 2,87,106.68  |
| "                     | 1,79,816.75  | 10,18,961.55              | —  | 1,83,324.14                      | —                                | —                     | —                       | —  | —                     | 1,83,324.14  | —  | —   | 12,02,285.69 |
| "                     | 583.51       | 3,306.55                  | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 3,306.55     |
| "                     | 1,282.53     | 7,267.64                  | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 7,267.64     |
| "                     | 1,572.01     | 8,908.04                  | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 8,908.04     |
| 20%                   | 40,128.47    | 1,60,513.90               | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 1,60,513.90  |
| "                     | 7,10,227.53  | 18,69,105.10              | —  | 6,47,870.00                      | —                                | —                     | —                       | —  | —                     | 6,47,870.00  | —  | —   | 25,16,975.10 |
| "                     | —            | —                         | —  | —                                | —                                | —                     | —                       | 1,94,037.43  | —                     | 1,94,037.43  | —  | —   | 1,94,037.43  |
| —                     | 11,73,660.80 | 44,28,346.12              | —  | 10,59,140.70                     | —                                | —                     | —                       | 1,95,248.51  | —                     | 12,54,389.21 | —  | —   | 56,82,735.33 |
| 10%                   | 2,634.77     | 23,712.93                 | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 23,712.93    |
| —                     | —            | —                         | —  | 93,552.00                        | —                                | —                     | —                       | —  | —                     | 93,552.00    | —  | —   | 93,552.00    |
| 10%                   | 7,784.89     | 70,063.98                 | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 70,063.98    |
| "                     | 2,17,699.93  | 19,59,299.33              | —  | 2,99,444.25                      | —                                | —                     | —                       | 1,160.93   | —                     | 3,00,605.18  | —  | —   | 22,59,904.51 |
| "                     | 1,824.55     | 16,421.04                 | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 16,421.04    |
| "                     | 1,076.00     | 9,684.04                  | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | 9,684.04     |
| —                     | —            | —                         | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | —            |
| "                     | 63,180.22    | 5,61,279.42               | —  | 7,410.34                         | —                                | —                     | —                       | —  | —                     | 7,410.34     | —  | —   | 5,68,689.76  |
| "                     | —            | —                         | —  | —                                | —                                | —                     | —                       | 16,932.88  | —                     | 16,932.88    | —  | —   | 16,932.88    |
| "                     | 36,470.45    | 3,28,234.01               | —  | 1,697.13                         | —                                | —                     | —                       | —  | —                     | 1,697.13     | —  | —   | 3,29,931.14  |
| —                     | —            | —                         | —  | —                                | —                                | —                     | —                       | —  | —                     | —            | —  | —   | —            |
| "                     | —            | 1,22,127.60               | —  | 20,309.52                        | —                                | —                     | —                       | —  | —                     | 20,309.52    | —  | —   | 1,42,437.12  |
| "                     | —            | —                         | —  | —                                | —                                | —                     | —                       | 15,583.43  | —                     | 15,583.43    | —  | —   | 15,583.43    |
| —                     | 3,28,036.04  | 30,67,109.42              | —  | 3,28,861.24                      | —                                | —                     | —                       | 33,677.24  | —                     | 3,62,538.48  | —  | —   | 34,29,647.90 |

INDIAN STATISTICAL INSTITUTE

Schedule of Fixed Assets

| particulars   | written down                      | deletions/                            | value after                                |
|---|-----------------------------------|---------------------------------------|--|
|   | value as on<br>31st March<br>1980 | adjustment<br>made during<br>the year | deterioration/<br>adjustment<br>(col. 1-3) |
| (1)   | (2)                               | (3)                                   | (4)  |
|   | Rs. P.                            | Rs. P.                                | Rs. P.                                     |
| Brought forward .. .. .   | —                                 | —                                     | —  |
| G. Furniture & fittings .. .. .   | 22,57,545.92                      | —                                     | 22,57,545.92                               |
| H. 1 Books & Journals .. .. .   | 77,57,577.48                      | —                                     | 77,57,577.48                               |
| 2 Books, and journals acquired out of Ford Foundation Grant   | 65,131.62                         | —                                     | 65,131.62                                  |
| I. Motor Cars & Vehicles .. .. .  | 7,21,002.71                       | —                                     | 7,21,002.71                                |
| J. Library equipment (including equipment procured through<br>Ford Foundation Grant and Rockefeller Foundation Grant)   | 51,431.06                         | —                                     | 51,431.06                                  |
| K. Water Supply arrangement at Baranagar .. .. .  | 4,58,368.88                       | —                                     | 4,58,368.88                                |
| L. Overbridge .. .. .   | 3,701.04                          | —                                     | 3,701.04                                   |
| M. Soviet Printing Machine (see note 'b' below) .. .. .   | 4,32,358.56                       | —                                     | 4,32,358.56                                |
| N. S.R.C. Equipment .. .. .   | 45,384.35                         | —                                     | 45,384.35                                  |
| O. F.A.I. Project equipment (Furniture required through F.A.I. Grant)   | 1,004.07                          | —                                     | 1,004.07                                   |
| P. Investigation of Statistical Problem connected with sediment<br>transportation Project :<br>Laboratory equipment required out of grant from Indian National<br>Science Academy .. .. . | 18,111.24                         | —                                     | 18,111.24                                  |
| Q. P.A.B.X. Installation : Delhi .. .. .  | 10,300.00                         | —                                     | 10,300.00                                  |
| P.A.B.X. under installation : Calcutta .. .. .  | —                                 | —                                     | —  |
| Internal Telephone .. .. .  | —                                 | —                                     | —  |
| R. Survey Research Methodology Project : Calculating equipment<br>acquired out of Grant from Indian Council of Social Science<br>Research .. .. .   | 980.35                            | —                                     | 980.35                                     |
| Grand Total .. .. .   | 4,77,08,705.16                    | —3,59,116.59                          | 4,73,49,588.57                             |

- NOTES : (a) Purchased out of ear-marked donation received from Statistical Publishing Society.  
 (b) Represents value of Soviet Printing Machines received as gift from the Soviet Academy of Science, USSR which has been made over to the Statistical Publishing Society for utilisation as per agreement.  
 (c) Includes Rs. 91,199.99 paise and Rs. 4,950.00 being the value of materials at site for Baranagar and Delhi respectively.  
 (d) Includes work-in-progress Rs. 1,05,623.50 paise on which depreciation has been charged.  
 (e) Includes construction in progress  
 (f) Includes Rs. 36,359.34 paise for electrical goods installed.  
 (g) Situated on land acquired as gift, the value of which has been ignored for the purpose of these accounts.

P. K. Chatterjee  
(Senior Accounts Officer)

N. Srinivasan  
(Administration & Finance)

B. P. Adhikari  
(Director)

PORTYNININTH ANNUAL REPORT : 1980-81

SCHEDULE I—Contd.

| as on 31st March 1981     |              | SCHEDULE I—Contd.         |                           |              |  |              |                | written down<br>value as on<br>31st March<br>1981<br>(col. 6+7.3) |
|---------------------------|--------------|---------------------------|---------------------------|--------------|--|--------------|----------------|---|
| depreciation for the year |              | net value<br>(col. 4-5.1) | additions during the year |              |  |              | total          |   |
| rate %                    | amount       |                           | out of capital<br>grant   |              | out of current<br>tr. from fund<br>grant |              |                |   |
| (5.0)                     | (5.1)        | (6)                       | (7.0)                     | (7.1)        | (7.2)                                    | (7.3)        | (8)            |   |
|                           | Rs. P.       | Rs. P.                    | Rs. P.                    | Rs. P.       | Rs. P.                                   | Rs. P.       | Rs. P.         |   |
| —                         | —            | —                         | —                         | —            | —  | —            | —              |   |
| 10%                       | 2,25,447.17  | 20,32,098.75              | 2,74,234.49               | —            | 3,443.23                                 | 2,77,677.72  | 23,09,776.47   |   |
| 5%                        | 3,87,878.87  | 73,69,698.61              | —                         | 17,58,996.21 | —  | 17,58,996.21 | 91,28,694.82   |   |
|                           | 3,256.58     | 61,875.04                 | —                         | —            | —  | —            | 61,875.04      |   |
| 20%                       | 1,44,200.54  | 5,76,802.17               | 69,555.00                 | —            | 156.69                                   | 69,711.69    | 6,46,513.86    |   |
| 15%                       | 7,714.66     | 43,716.40                 | —                         | —            | —  | —            | 43,716.40      |   |
| 10%                       | 45,836.89    | 4,12,531.99               | 1,31,804.61               | —            | —  | 1,31,804.61  | 5,44,336.60    |   |
| 7.5%                      | 277.58       | 3,423.46                  | —                         | —            | —  | —            | 3,423.46       |   |
| 15%                       | 64,863.78    | 3,67,504.78               | —                         | —            | —  | —            | 3,67,504.78    |   |
| 15%                       | 6,807.65     | 38,576.70                 | —                         | —            | —  | —            | 38,576.70      |   |
| 10%                       | 100.41       | 903.66                    | —                         | —            | —  | —            | 903.66         |   |
| 15%                       | 2,716.69     | 15,394.55                 | —                         | —            | —  | —            | 15,394.55      |   |
| 10%                       | 1,030.00     | 9,270.00                  | —                         | —            | —  | —            | 9,270.00       |   |
| —                         | —            | —                         | 1,75,866.00               | —            | —  | 1,75,866.00  | 1,75,866.00    |   |
| —                         | —            | —                         | —                         | —            | 1,085.79                                 | 1,085.79     | 1,085.79       |   |
| 15%                       | 147.05       | 833.30                    | —                         | —            | —  | —            | 833.30         |   |
| —                         | 28,68,548.97 | 4,44,81,039.60            | 41,52,927.76              | 17,58,996.21 | 9,78,009.51                              | 68,89,933.48 | 5,12,70,973.08 |   |

IA. Raja Subodh Mullick Square,  
Calcutta-700 013.  
The 9th December, 1981

Roy & Bagchi  
Chartered Accountants

# INDIAN STATISTICAL INSTITUTE

## SCHEDULE 1-A

Excess of Receipts over Expenditure in respect of Capital Expenditure Grant received from Government of India and Government of Karnataka as on 31st March 1981

| Particulars  | Rs. P.               | Rs. P.                |
|--|----------------------|-----------------------|
| <b>1. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF CAPITAL EXPENDITURE GRANT FROM GOVT. OF INDIA</b>          |                      |                       |
| AS PER LAST ACCOUNT .. .. .  |                      | 66,16,962.52          |
| Add : Grant received during the year .. .. .   |                      | 47,50,000.00          |
|  |                      | <u>1,13,66,962.52</u> |
| Less : Adjustment of Amount payable to NSSO workers for P.F. A/c   | 10,55,303.26         |                       |
| Assets acquired during the year .. .. .  | 41,52,927.75         | 52,08,231.01          |
| Balance Cr.  |                      | <u>61,58,731.51</u>   |
| <b>2. EXCESS OF RECEIPTS OVER EXPENDITURE IN RESPECT OF CAPITAL EXPENDITURE GRANT FROM GOVERNMENT OF KARNATAKA</b> |                      | ..                    |
| As per last account .. .. .  | 6,00,000.00          | ..                    |
| Add : Grant receivable for the year .. .. .  | 6,00,000.00          |                       |
|  | <u>12,00,000.00</u>  |                       |
| Less : Capital Expenditure during the year .. .. .   | —                    |                       |
|  | <u>Balance : Cr.</u> | <u>12,00,000.00</u>   |
| Excess of Receipts over Expenditure transferred to Balance Sheet   |                      | <u>73,58,731.51</u>   |

P. K. Chatterjee  
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Director

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Calcutta-700 013  
The 9th December, 1981

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Chartered Accountants

FORTYNINTH ANNUAL REPORT : 1980-81

SCHEDULE II

Schedule of Investment and Interest Accrued as on 31st March, 1981

| Particulars   | Investment     | Accrued Interest | Total        |
|---|----------------|------------------|--------------|
| Fixed Deposit with United Bank of India<br>(Dunlop Bridge Branch) | 5,58,258.26    | 13,820.70        | 5,72,078.96  |
| <i>Add : Transfer from other funds<br/>(As per Annexure 3)</i>    |                |                  |              |
| Fixed Deposit with United Bank of India<br>(Dunlop Bridge Branch) | 7,83,500.00    | 19,395.14        |              |
| $5\frac{1}{2}$ % Loan 1999<br>(Market value—Rs. 4,44,534.00)      | .. 5,19,226.05 | 3,12,724.50      |              |
| $5\frac{1}{2}$ % Loan 2000<br>(Market value—Rs. 44,450.00)        | .. 50,075.00   | 13,52,801.05     | 27,500.00    |
|   |                | 3,59,619.64      | 17,12,420.69 |
|   |                | 19,11,059.31     | 3,73,440.34  |
|   |                |                  | 22,84,499.65 |

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INDIAN STATISTICAL INSTITUTE

SCHEDULE III

Loan and Advances as on 31st March, 1981

| Particulars   | Rs. P.          | Rs. P.          | Rs. P.              |
|---|-----------------|-----------------|---------------------|
| Departmental imprest .. .. .                                      | —               | —               | 27,477.47           |
| Festive advance to workers .. .. .                                | —               | —               | 2,25,387.50         |
| Advance to suppliers and contractors .. .. .                      | —               | —               | 12,27,727.41        |
| Suspense and advances .. .. .                                     | —               | —               | 1,18,931.50         |
| Amount due for scholarship and fellowship by other bodies .. .. . | —               | —               | 57,906.95           |
| Relief loan (flood, drought) .. .. .                              | 2,63,275.84     | —               | —                   |
| Education loan .. .. .  | 892.00          | —               | —                   |
| House Building loan .. .. .                                       | 8,73,050.00     | —               | —                   |
| Student's benefit fund .. .. .                                    | 350.00          | —               | —                   |
| House Building loan (old) .. .. .                                 | 42.00           | 11,37,619.84    | —                   |
| <i>Less : Food grain advance .. .. .</i>                          | <i>1,820.00</i> | <i>—</i>        | <i>—</i>            |
| <i>Student's amenities advance (Delhi) .. .. .</i>                | <i>1,013.73</i> | <i>—</i>        | <i>—</i>            |
| <i>Interest on House Building loan .. .. .</i>                    | <i>1,586.25</i> | <i>4,419.98</i> | <i>11,33,199.86</i> |
|   |                 |                 | 78,356.75           |
| Security deposit .. .. .  | —               | —               | —                   |
| Sundry debtors (partly irrecoverable) .. .. .                     | —               | —               | 81,350.80           |
| Advance for land .. .. .  | —               | —               | 30,848.34           |
| Charges prepaid .. .. .   | —               | —               | 4,30,248.08         |
| Marginal deposit .. .. .  | —               | —               | 700.00              |
| T.A. advance .. .. .  | —               | —               | 1,30,595.48         |
| L.T.C. advance .. .. .  | —               | —               | 86,025.30           |
| ISI Co-operative Society .. .. .                                  | 4,943.58        | —               | —                   |
| Staff insurance .. .. .   | 1,988.13        | —               | —                   |
| Staff insurance (Giridih, Delhi) .. .. .                          | 1,566.37        | —               | —                   |
|   |                 | 8,498.08        | —                   |
| <i>Less : ISI Co-operative Society (Giridih) .. .. .</i>          | <i>—</i>        | <i>3,787.83</i> | <i>4,710.25</i>     |
| ISI Contributory Provident Fund .. .. .                           | —               | —               | 6,80,988.95         |
|   |                 |                 | 43,14,454.46        |

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Calcutta-700013  
The 9th December, 1981.

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

SCHEDULE IV

INCOME AND EXPENDITURE ACCOUNT OF STATISTICAL QUALITY CONTROL FUND, DEVELOPMENT FUND & 1974 SYMPOSIUM FUND FOR THE YEAR ENDED 31ST MARCH 1981

| Previous Year      |                    |                     |                    | Expenditure   | Current Year       |                    |                     |                    | Previous Year      |                    |                     |                    | Income                    | Current Year       |                    |                     |                    |
|--------------------|--------------------|---------------------|--------------------|---|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|---------------------------|--------------------|--------------------|---------------------|--------------------|
| SQC Fund           | Development Fund I | 1974 Symposium Fund | Total              |   | SQC Fund           | Development Fund I | 1974 Symposium Fund | Total              | SQC Fund           | Development Fund I | 1974 Symposium Fund | Total              |                           | SQC Fund           | Development Fund-I | 1974 Symposium Fund | Total              |
|                    |                    |                     |                    | To Excess of Income Over Expenditure transferred to |                    |                    |                     |                    |                    |                    |                     |                    |                           |                    |                    |                     |                    |
| 1,67,089.72        | 6,941.12           | 1,395.68            | 1,75,426.42        | Fund A/o.   | 2,47,695.90        | 12,655.21          | 1,579.38            | 2,61,930.49        | 1,67,089.72        | 6,941.12           | 1,395.68            | 1,75,426.42        | By Interest on Investment | 2,47,695.90        | 12,655.21          | 1,579.38            | 2,61,930.49        |
| <u>1,67,089.72</u> | <u>6,941.12</u>    | <u>1,395.68</u>     | <u>1,75,426.42</u> |   | <u>2,47,695.90</u> | <u>12,655.21</u>   | <u>1,579.38</u>     | <u>2,61,930.49</u> | <u>1,67,089.72</u> | <u>6,941.12</u>    | <u>1,395.68</u>     | <u>1,75,426.42</u> |                           | <u>2,47,695.90</u> | <u>12,655.21</u>   | <u>1,579.38</u>     | <u>2,61,930.49</u> |

BALANCE SHEET OF STATISTICAL QUALITY CONTROL FUND, DEVELOPMENT FUND & 1974 SYMPOSIUM FUND AS AT 31ST MARCH 1981

| Previous Year       |                    |                     |                     | Fund & Liabilities   | Current Year        |                    |                     |                     | Previous Year       |                    |                     |                     | Property & Assets   | Current Year        |                    |                     |                     |
|---------------------|--------------------|---------------------|---------------------|--|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---|---------------------|--------------------|---------------------|---------------------|
| SQC Fund            | Development Fund I | 1974 Symposium Fund | Total               |  | SQC Fund            | Development Fund I | 1974 Symposium Fund | Total               | SQC Fund            | Development Fund I | 1974 Symposium Fund | Total               |   | SQC Fund            | Development Fund-I | 1974 Symposium Fund | Total               |
| 80,33,987.41        | 1,26,536.39        | 16,422.85           | 31,76,946.65        | 1. Fund :  |                     |                    |                     |                     |                     |                    |                     |                     |   |                     |                    |                     |                     |
|                     |                    |                     |                     | As per last A/o.   | 30,33,987.41        | 1,26,536.39        | 16,422.85           | 31,76,946.65        | 27,41,000.00        | 1,24,000.00        | 15,500.00           | 28,80,500.00        | 1. Investment in Fixed Deposits with United Bank of India   | 32,41,000.00        | 1,35,500.00        | 17,500.00           | 33,94,000.00        |
|                     |                    |                     |                     | Add: Excess of Income over Expenditure   | 2,47,695.90         | 12,655.21          | 1,579.38            | 2,61,930.49         | 41,181.39           | 414.45             | 299.16              | 41,895.00           | 2. Current Assets :   |                     |                    |                     |                     |
|                     |                    |                     |                     | Excess of SQC Receipts over Rs. 7,00,000/- transferred from Current Expenditure A/o. | 7,54,104.99         | —                  | —                   | 7,54,104.99         | 2,51,806.02         | 2,121.94           | 623.69              | 2,54,551.65         | 1. Interest Accrued but not due on Fixed Deposits   | 70,245.90           | 3,355.21           | 428.13              | 74,029.24           |
|                     |                    |                     |                     |  | 40,35,788.30        | 1,39,191.60        | 18,002.23           | 41,92,982.13        |                     |                    |                     |                     | 2. Balance with Banks forming part of Institute's Bank Account shown in Schedule-II to the Institutes Balance Sheet | 7,24,542.40         | 336.39             | 74.10               | 7,24,952.89         |
| <u>80,33,987.41</u> | <u>1,26,536.39</u> | <u>16,422.85</u>    | <u>31,76,946.65</u> | 2. Current Liabilities & Provisions  | <u>40,35,788.30</u> | <u>1,39,191.60</u> | <u>18,002.23</u>    | <u>41,92,982.13</u> | <u>30,33,987.41</u> | <u>1,26,536.39</u> | <u>16,422.85</u>    | <u>31,76,946.65</u> |   | <u>40,35,788.30</u> | <u>1,39,191.60</u> | <u>18,002.23</u>    | <u>41,92,982.13</u> |

P. K. CHATTERJEE  
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1A, Raja Subodh Mullick Square  
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9 December 1981



FORTYNINTH ANNUAL REPORT : 1980-81

SCHEDULE V

Excess of Receipts over Expenditure (+) and Excess of Expenditure over Receipts (-) in respect of  
Miscellaneous Projects and Activities on behalf of Government of India and  
Other Bodies as on 31st March, 1981

| Projects and Activities   | Net excess of receipts (+)/expenditure (-) |             | Upto 31st<br>March 1981 |          |   |              |
|---|--|-------------|-------------------------|----------|---|--------------|
|   | upto 31st March 1980                       |             | for the year            |          |   |              |
|   | Rs.  | P.          | Rs.                     | P.       |   |              |
| <b>A. OTHER BODIES :</b>  |  |             |                         |          |   |              |
| 1. Estimates of Probabilities of Hospitalisation according to age, sex and diagnosis etc.<br>As per last account                                    | +  | 12,466.06   | —                       | —        | + | 12,466.06    |
| 2. International Course on Management of Quality control in collaboration with Dr. J. M. Juran<br>As per last account                               | +  | 17,826.55   | —                       | —        | + | 17,826.55    |
| 3. An Investigation of age and related changes in the Electrophoretic and Immunoelectrophoretic components of serumproteins<br>As per last accounts | +  | 87,074.89   | —                       | —        | + | 87,074.89    |
| 4. Fertiliser optimal Demand Study Projecting Fertiliser Demand in India<br>As per last account   | +  | 1,69,886.93 | —                       | —        | + | 1,69,886.933 |
| 5. Project on Exchange Control and Liberalisation<br>As per last account  | +  | 17,027.85   | —                       | —        | + | 17,027.85    |
| 6. Research Project : "Central Place Hierarchy for developing Agricultural Region", Kerala Area<br>As per last account                              | +  | 1,400.00    | —                       | —        | + | 1,400.00     |
| 7. Seminar by Prof. J. Kernal under ICSSR Programme<br>As per last account  | +  | 927.13      | —                       | —        | + | 927.13       |
| 8. Ford Foundation for Energy Project<br>As per last account  | +  | 2,960.53    | —                       | —        | + | 2,960.53     |
| 9. Econometrica Project<br>As per last account  | +  | 15,258.35   | —                       | —        | + | 15,258.35    |
| 10. Journal of Economic Development Project<br>As per last account  | +  | 2,631.10    | —                       | —        | + | 2,631.10     |
| 11. Cost Benefit Analysis of Rural Electrical Schemes Project<br>As per last account  | +  | 46,231.47   | +                       | 8,669.85 | + | 54,901.32    |
| 12. System Development of Data Processing for Examination Project<br>As per last account  | +  | 28,849.25   | —                       | —        | + | 28,849.25    |
| 13. Survey of Unorganised Labour in Transport Industry<br>As per last account   | +  | 16.35       | —                       | —        | + | 16.35        |

# INDIAN STATISTICAL INSTITUTE

## SCHEDULE V—Contd.

Excess of Receipts over Expenditure (+) and Excess of Expenditure over Receipts (—) in respect of  
Miscellaneous Projects and Activities on behalf of Government of India and  
Other Bodies as on 31st March 1981

| Projects and Activities   | net excess of receipts (+) / expenditure (—) |           |              |           |           |           |
|---|--|-----------|--------------|-----------|-----------|-----------|
|   | upto 31st March 1980                         |           | for the year |           |           |           |
|   | Rs.  | P.        | Rs.          | P.        |           |           |
| 14. Enquiry into the Nature of Urban Poverty<br>Survey : Living in houses<br>As per last account  | +  | 32,290.55 | —            | +         | 32,290.55 |           |
| 15. Project on Health and Socio-Economic Survey<br>in CMDA Area<br>As per last account  | +  | 81,181.73 | —            | 6,844.94  | +         | 74,336.79 |
| 16. Road Users' Survey<br>As per last account   | +  | 395.35    | —            | 1,472.75  | —         | 1,077.40  |
| 17. Project on Contour mapping and Estimation of<br>Geological Parameters<br>As per last account  | +  | 2,130.47  | +            | 13,043.32 | +         | 15,173.79 |
| 18. Training Course of Afghan Nationals<br>As per last account  | +  | 28,351.90 | —            | —         | +         | 28,351.90 |
| 19. ICSSR Course on Survey Research Methodology<br>(6th March 1978 to 29th April 1978)<br>As per last account                                       | +  | 5,278.32  | —            | —         | +         | 5,278.32  |
| 20. ICSSR Course on Survey Research Methodology<br>(15th January 1979 to 24th February 1979)  | +  | 6,346.06  | —            | —         | +         | 6,346.06  |
| 21. ICSSR Project : Survey of Distribution of Public<br>expenditures in Social services in West Bengal<br>As per last account                       | +  | 3,046.42  | —            | 29,624.20 | —         | 26,577.78 |
| 22. Summer School on use of Electronic Computers<br>in Research and Development<br>As per last account  | +  | 3,904.30  | —            | 135.00    | +         | 3,769.30  |
| 23. ILO/village Study Project<br>As per last account  | +  | 32,336.29 | —            | 19,381.26 | +         | 12,955.03 |
| 24. Project on Strategies for Integrated Rural<br>Development—A case study, North Cenera<br>District in Karnataka<br>As per last account            | +  | 1,235.99  | +            | 8,892.01  | +         | 10,128.00 |
| 25. Project on An Alternative Plan with the Basic<br>Social objective of Ensuring the Minimum level<br>of Living to the poor<br>As per last account | +  | 7,083.38  | —            | —         | +         | 7,083.38  |
| 26. ICSSR Project on Changing Land Relation and<br>Women<br>As per last account   | +  | 1,968.28  | —            | 1,800.00  | +         | 168.28    |
| 27. ICSSR Project on Palsyes in a Changing Society<br>As per last account   | +  | 585.52    | —            | —         | +         | 585.52    |

FORTYNINTH ANNUAL REPORT : 1980-81

SCHEDULE V—Contd.

Excess of Receipts over Expenditure (+) and Excess of Expenditure over Receipts (—) in respect of Miscellaneous Projects and Activities on behalf of Government of India and Other Bodies as on 31st March 1981

| Projects and Activities   | Net excess of receipts (+)/expenditure (—) |              |   |              | Upto 31st  |   |
|---|--|--------------|---|--------------|------------|---|
|   | upto 31st March 1980                       |              | for the year  |              | March 1981 |   |
|   | Rs.  | P.           | Rs.   | P.           | Rs. P.     |   |
| 28. ICSSR Project on Women and Rice Cultivation<br>As per last account  | +  | 8,480.49     | —   | 12,497.07    | —          | 4,016.58  |
| 29. Survey on Malaria Project   | —  | —            | +   | 24,860.70    | +          | 24,860.70   |
| 30. D.N.C.F.P.M.S.  | —  | —            | +   | 1,26,716.94  | +          | 1,26,716.94   |
| 31. Rural Survey Project—Coach Bihar  | —  | —            | +   | 3,245.70     | +          | 33,45.70  |
| 32. Solar Powered Pump Set  | —  | —            | +   | 1,00,086.35  | +          | 1,00,086.35   |
| 33. Summer School (80-81)   | —  | —            | +   | 695.30       | —          | —   |
| 34. Research Methodology in Economic Theory   | —  | —            | +   | 2,955.70     | —          | 2,955.70  |
| 35. Project on Quantitative analysis of some aspects<br>in Indian Agriculture :   |  |              |   |              |            |   |
| (a) Dr. A. Rudra  | —  | 85,909.09    | —   | —            | —          | 85,909.09   |
| (b) Sri R. Talwar and other Fellowship  | —  | 12,253.18    | —   | 2,949.73     | —          | 15,202.91   |
| 36. Enquiry into Nature of Urban Poverty :<br>Survey of Homeless Persons in Calcutta  | —  | 54,996.46    | —   | 2,336.42     | —          | 58,232.88   |
| 37. Project on Trade Strategies and Employment<br>pattern   | —  | 270.58       | —   | —            | —          | 270.58  |
| Sub Total :   | (+)  | 6,17,171.51  | (+)   | 2,89,165.27  | (+)        | 8,65,558.12   |
|   | (—)  | 1,53,429.31  | (—)   | 78,636.57    | (—)        | 1,91,287.22   |
| <b>B. On behalf of Govt. of India :</b>   |  |              |   |              |            |   |
| 1. Research and planning Committee of the Planning<br>Commission for Sociological Studies   | —  | 23,755.14    | —   | —            | —          | 23,755.14   |
| 2. ISEC Colombo Plan Fellowship<br>As per last account  | —  | —            | —   | 11,57,155.02 | —          | —   |
| Expenditure during the year   | 1,63,798.23                                | —            | —   | —            | —          | —   |
| Less : Amount received during<br>the year   | 89,264.49                                  | —            | —   | 74,533.74    | —          | 12,31,688.76  |
| 3. Ministry of Health & Family<br>Welfare, Govt. of India for Inte-<br>grated Population Research<br>Centre (formerly Communication<br>Action Research Centre & Demo-<br>graphic Research Centre) | —  | 6,14,774.58  | —   | —            | —          | 6,14,774.58   |
| 4. Ministry of Planning Government<br>of India for National Sample<br>Survey Organisation<br>As per last account  | —  | —            | —   | 7,24,834.27  | —          | —   |
| Received during the year  | 1,39,721.24                                | —            | —   | —            | —          | —   |
| Less : Expenditure during the year  | 86,873.80                                  | —            | +   | 52,847.44    | —          | 6,71,986.83   |
| Sub-Total :   | (—)  | 25,20,519.01 | (—)   | 21,686.30    | (—)        | 25,42,205.31  |
| Summary :   |  |              |   |              |            |   |
| Total—A :   | (+)  | 6,17,171.51  | (+)   | 2,89,165.27  | (+)        | 8,65,558.12   |
| Total—A+B :   | (—)  | 26,73,948.32 | (—)   | 1,00,322.87  | (—)        | 27,33,492.53  |
| P. K. Chatterjee<br>Senior Accounts Officer<br>1A, Raja Subodh Mullick Square,<br>Calcutta-700 013<br>The 9th December, 1981.   |  |              | N. Srinivasan<br>N. Srinivasan<br>Officer-On-Special Duty<br>Administration & Finance |              |            | B. P. Adhikari<br>Director<br>Roy & Bagchi<br>Chartered Accountants |

# INDIAN STATISTICAL INSTITUTE

## SCHEDULE VI

Details of cash in hand as on 31st March 1981 at the Central Office and other offices of the Institute and Bank Balance as on that date (except American Express International Banking Corporation, Calcutta, Delhi and New York)

|                              | Cash<br>Amount  | A/c. with Bank<br>(Name of the Bank)        | Total              |
|------------------------------|-----------------|---|--------------------|
| At Central Office (Calcutta) | 27,402.43       | SBI, Strand Road 'A' ..                     | 20,145.65          |
|                              |                 | SBI, Shambazar 'B' ..                       | 1,18,930.36        |
|                              |                 | UBI, Dunlop Bridge ..                       | 66,21,014.09       |
|                              |                 | RBI (P/L A/c.) ..                           | 3,108.80           |
|                              |                 | Nath Bank Ltd. (in liquidation) doubtful .. | 3,812.57           |
|                              |                 | SBI, Delhi 'A' ..                           | 1,632.73           |
|                              |                 | SBI, Delhi 'B' ..                           | 696.60             |
|                              |                 | Grindlays Bank Ltd. ..                      | 5,24,972.24        |
| <b>BRANCHES</b>              |                 |   |                    |
| At Delhi                     | 1,748.70        | Canara Bank ..                              | 5,68,408.03        |
| " Giridih                    | 1,533.91        | UCO Bank ..                                 | 171.10             |
|                              |                 | United Bank of India ..                     | 5,471.96           |
| " Bangalore                  | 484.44          | SBI, Bangalore ..                           | 2,47,239.07        |
|                              |                 | Bank of Baroda ..                           | 5,54,879.49        |
| " Kerala                     | 1,018.00        | S.B. of Travancore ..                       | 43,466.91          |
| " Madras                     | 326.06          | SBI ..                                      | 45,582.96          |
| " Coimbatore                 | 417.78          | Syndicate Bank ..                           | 20,386.28          |
| " Bombay                     | 956.22          | S.B.I. ..                                   | 53,465.20          |
| " Baroda                     | 304.91          | Bank of Baroda ..                           | 12,909.63          |
| " Hyderabad                  | 857.07          | S.B. Hyderabad ..                           | 67,730.51          |
| " Pune                       | 1,149.21        | S.B.I. ..                                   | 36,109.20          |
| " Tokyo, Japan               | 7,566.82        |   |                    |
|                              | <hr/> 43,765.55 |   | <hr/> 89,50,177.38 |

The above amount have been shown in the following Balance Sheets of the Institute and its various funds :

|                              |                 |  |                    |
|------------------------------|-----------------|--|--------------------|
| The Institute                | .. 37,128.93    | The Institute  | .. 82,25,560.88    |
| Development Fund I           | .. 336.39       | Statistical Quality Control Development Fund             | 7,24,542.40        |
| Director's Contribution Fund | .. 6,300.23     | 1974 International Symposium Prize in<br>Statistics Fund | .. 74.10           |
|                              | <hr/> 43,765.55 |  | <hr/> 89,50,177.38 |

P. K. Chatterjee  
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Calcutta-700 013,  
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Roy & Bagchi  
Chartered Accountants

FORTYNINTH ANNUAL REPORT : 1980-81

SCHEDULE VII

General Fund as on 31st March, 1981

| Particulars   | Rs.          | P. | Rs.          | P.                    | Rs.                   | P. |
|---|--------------|----|--------------|-----------------------|-----------------------|----|
| 1. Opening balance .. .. .  |              |    |              |                       | 4,91,03,803.43        |    |
| 2. Add : Assets during the year :   |              |    |              |                       |                       |    |
| .1 Capital Expenditure Grant a/c.<br>As per Schedule I (Col. 7.0) annexed to the Balance Sheet ..   | 41,52,927.75 |    |              |                       |                       |    |
| .2 Current expenditure Grant a/c. As per Schedule I (Col. 7.1) annexed<br>to the Balance Sheet .. .. .  | 17,58,996.21 |    | 59,11,923.96 |                       |                       |    |
| 3. Assets transferred from other funds<br>As per annexure 3 attached .. .. .  |              |    |              | 79,90,370.51          |                       |    |
| 4. Adjustment of Hospitality and Housing Committee Account as per<br>recommendation of the Arrear Claims Committee .. .. .  |              |    |              | 1,03,651.93           |                       |    |
|   |              |    |              | <u>1,40,05,946.40</u> |                       |    |
| 5. Less :   |              |    |              |                       |                       |    |
| .1 Depreciation written off during the year on fixed assets :<br>As per Schedule I (Col. 5.1) annexed to the Balance Sheet ..   | 28,68,548.91 |    |              |                       |                       |    |
| .2 Nissen hut written off during the year :<br>As per Schedule I (Col. 3.0) annexed to the Balance Sheet ..   | 543.39       |    |              |                       |                       |    |
| .3 Adjustment against Arrear claims—see note 3(c) of Schedule IX ..   | 37,99,177.80 |    | 66,68,270.16 |                       |                       |    |
|   |              |    |              | <u>73,37,676.24</u>   |                       |    |
| 6. Add : Interest on Investment of the refund from Land Acquisition<br>Collector in respect of 102 B. T. Road—Fixed Deposit for<br>Rs. 5,58,258.26 with United Bank of India, Duntlop Bridge Branch : |              |    |              |                       |                       |    |
| .1 Interest received .. .. .  | 38,243.91    |    |              |                       |                       |    |
| .2 Interest accrued during the year .. .. .   | 13,820.70    |    | 52,064.61    | 73,89,740.85          |                       |    |
|   |              |    |              |                       | <u>5,64,93,544.28</u> |    |

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# INDIAN STATISTICAL INSTITUTE

## SCHEDULE VIII

Deposits and Liabilities as at 31st March, 1981

| Particulars   | Rs. P.      | Rs. P.       | Rs. P.              |
|---|-------------|--------------|---------------------|
| C.D.S. Annuity Deposit .. .. .  | 89.00       |              |                     |
| Income tax .. .. .  | 1,05,994.88 |              |                     |
| Profession tax .. .. .  | 33,418.99   | 1,39,502.87  |                     |
| <i>Less</i> : Income tax from contractor .. .. .                                |             | 4,951.70     | 1,34,551.17         |
| Library and Circulating Library .. .. .   | 70,155.00   |              |                     |
| Laboratory deposit .. .. .  | 3,575.00    |              |                     |
| Hostel caution money .. .. .  | 5,925.00    |              |                     |
| ECAFE .. .. .   | 704.27      |              |                     |
| Machicoe training deposit .. .. .   | 8,375.00    |              |                     |
| Cumulative Time Deposit .. .. .   | 13,491.25   |              |                     |
| Membership fee deposit .. .. .  | 645.00      |              |                     |
| Caution money for electric meter (Delhi) Housing staff ..                       | 1,225.00    |              |                     |
| S.W. Housing scheme .. .. .   | 7,987.32    |              |                     |
| Worker's benefit fund .. .. .   | 1,254.71    |              |                     |
| Felicitation fund .. .. .   | 184.37      | 1,13,621.92  |                     |
| <i>Less</i> : CTD (Giridih & Delhi) .. .. .                                     |             | 933.21       | 1,12,688.71         |
| Earnest money deposit .. .. .   |             | 55,320.00    |                     |
| Security deposit .. .. .  |             | 1,14,448.54  |                     |
| Retention money deposit .. .. .   |             | 76,855.82    |                     |
| Tender money deposit .. .. .  |             | 47,686.40    | 2,94,310.76         |
| ISI Small Scale Industry Experimental Unit .. .. .                              |             |              | 14,910.37           |
| Director of Health Services for purchasing Census Report through UNESCO .. .. . |             |              | 8,126.00            |
| Other liabilities .. .. .   |             |              | 25,03,456.77        |
|   |             | <b>Total</b> | <b>30,68,043.78</b> |

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## FORTYNINTH ANNUAL REPORT : 1980-81

### SCHEDULE IX

Notes forming part of the Balance Sheets as at 31st March 1981 and the Income and Expenditure Accounts for the year ended on that date, of

(a) Indian Statistical Institute, and (b) Other Funds.

#### 1. Fixed Assets :

(a) Value of fixed assets acquired on dates prior to 31st March, 1952 was taken from the inventory prepared as on that date. Registers for fixed assets are being maintained showing inter-alia, the written down value of the assets as on 31st March, 1976 as the original cost of the assets. No physical verification of Fixed Assets was carried out during the year 1980-81. However, the Management of the Institute is contemplating to take up the physical verification of fixed assets phasewise completing the verification over a number of years. In respect of obsolete and discarded assets a committee was set up for their recommendation for write off action and their report has been submitted but pending further scrutiny, the matter is under active consideration of the Council.

In accordance with the terms and conditions of the grants for Capital Expenditure received from the Government of India, the Institute shall not sell or otherwise dispose off or mortgage any property acquired by it with such grants without prior approval of the Government. Most of the assets have been acquired out of the Government grants, total written down value of which, however, are not ascertainable.

In respect of assets acquired under deferred payment scheme, liability for unpaid amounts has not been accounted for although depreciation on such assets has been calculated on full value of such assets. This is as per the practice followed by the Institute.

(b) The Institute is holding land and landed properties acquired through Government or by direct purchase. In case of acquired land/landed property, the Institute has been given certificates/grant of possession and in other cases instruments of transfer have been executed by the sellers and the donors. In respect of 4 flats purchased from West Bengal Housing Board, the conveyance deed was registered on 21.4.81.

(c) Electronic Computer at Baranagar—Cost of a generator with installation charges is included in the above account. The generator is exclusively used for running this computer.

(d) As per the practice followed by the Institute, depreciation of fixed assets is charged in account from the year following the year of addition of such assets.

(e) 95% of the expenditures on Books and Journals (including cost of binding etc.) has been capitalised by crediting general fund as per past practice.

(f) No physical verification of Library Books was conducted during the year. Discrepancies found on physical verification of Library Books in Delhi in earlier years are under scrutiny.

(g) One shed under item no. C 1.2 is under the process of dismantling on 31.3.1981. The Salvaged materials are being used in the construction of certain structures at 36, Bidyastan Sarani, Calcutta under progress on 31.3.1981 vide item no. C 1.7. Necessary adjustment of value on both accounts will be considered when dismantling is complete and on the basis of valuation of total salvaged materials obtained, used and disposed off.

#### 2. Investments : Rs. 19,11,059.31

Investment including those under different funds stand in the name of Indian Statistical Institute, Securities are marked for the specific funds have been disclosed in the balance sheet of the respective funds.

#### 3. Amounts claimed to be claimed from Government of India—Rs. 77,53,177.80.

Consequent upon the decision of the Council in their meeting dated 29th September 1981 based on the recommendations of the Arrear Claim Committee and approval of Ministry of Planning,

## INDIAN STATISTICAL INSTITUTE

Government of India, for settlement of claims of the Institute with Govt. of India amounting to Rs. 77,53,177.80 the following adjustments were carried out in the accounts of the year.

- (a) Fund Merger : The following separate funds and accounts i.e.,
- (i) Visiting Professors and Fellows fund
  - (ii) Leave Salary Fund
  - (iii) Gratuity Fund
  - (iv) Development Fund II
  - (v) Supervision Fee Fund
  - (vi) Electronic Data Processing and Computation Unit
  - (vii) Honeywell R-400 Computer Unit

have been merged with the General Fund Account of the Institute as on 31st March, 1981 by incorporating the assets and liabilities of these funds and accounts as on that date. The net effect of such merger has been to increase the General Fund balance by Rs. 79,90,370.51 vide Annexure-3.

(b) Out of the total arrear claim of Rs. 77,53,177.80, an amount of Rs. 39,54,000.00 was admitted by the Government (out of which Rs. 4,50,000/- was already received by the Institute and credit was not given to Claim Account and the effect is merged in Excess of Receipt over Expenditure Non-plan Revenue Account) and the amount has been adjusted with the unspent grants appearing under the heads :-

- (i) Net Excess of Receipts over Expenditure in respect of Non-plan Revenue upto 31.3.81 amounting to Rs. 12,09,096.56.
  - (ii) Net Excess of Receipt over Expenditure in respect of Plan Revenue upto 31.3.81 amounting Rs. 20,95,582.83.
  - (iii) Excess of Receipts over Expenditure in respect of Survey Research Centre amounting Rs. 6,49,320.61.
- (e) The balance arrear claim of Rs. 37,99,177.80 as suggested by the Arrear Claim Committee and approved by the Council has been adjusted with the augmented balance of the General Fund due to merger of various funds as stated under (a) above.
- (d) As suggested by Arrear Claim Committee and approved by the Council Rs. 1,03,651.93 standing to the credit of Hospitality and Housing Committee under Deposit and other Liability Account (Cr) has been transferred to General Fund.

#### 4. Amount receivable on Miscellaneous Projects and Activities—Rs. 27,33,492.53

During the year an amount of Rs. 1,71,574.19 was received against dues of the earlier years. Efforts are being made to realise the balance amount.

#### 5. Stores at cost—Rs. 7,96,307.32.

(a) In respect of stores items other than cement and steel, the net handling loss of Rs. 1,306.56 for the year 1980-81 is charged to Income & Expenditure Account. No physical verification of cement was conducted during 1980-81. Losses, if any, will be adjusted when determined.

(b) Concerned departments have been advised to determine the obsolete/damaged stores and building materials but no report has so far been received.

#### 6. Loans & Advances—Rs. 43,14,454.46.

(a) Separate ledgers/registers are maintained for House Building Loan, Flood Relief Loan, Festival Advance, Travelling Advance, Advance to staff, Advance to Suppliers/Contractors and L.T.C. Advance. No provisions in respect of old outstanding advances are made in the cases of workers of the Institute since they are fully realised at the time of final settlement, i.e., at the time of resignation, retirement and death, of their accounts. Unless the nature of works differs or exigency exists second T.A., L.T.C. advances etc. are not paid unless the previous advance is adjusted or under dispute. Various accounts under above heads consist of old balances over one year and in some cases over three years. Necessary scrutiny and linking up is under process. Subsidiary register balances in respect of L.T.C., Flood and Staff Advance are under reconciliation with main ledger accounts.



## FORTYNINTH ANNUAL REPORT : 1980-81

Advance to suppliers/contractors includes Rs. 32,213.56 is recoverable from Bharat Overseas (P) Ltd., Delhi. The Institute has filed a suit for recovery of the amount which is pending before the Court. As the Institute has no system of making provision against Doubtful Debts/Advances, any amount becoming finally irrecoverable will be adjusted in the year it becomes actually bad.

(b) Suspense and other advances—Rs. 1,18,931.50.

(i) The balance of the year as per suspense ledgers is under reconciliation with the main ledger account.

(ii) Included under suspense account some old balances in the name of some deceased persons, some visiting professors, regular employees of the Institute and others. Steps are being taken for recovery/adjusting the above amount.

(iii) This account includes the following :

Adjustment of unreconciled stock of materials Rs. 518.73 (net credit) :

Medical expenses recoverable from staff Rs. 27748.08 Dr.

L.T.C. Advance Rs. 10092.36 Dr.

Medical Advance Rs. 4979.06 Dr.

(iv) T. A. Advance, Staff Advance, Festival Advance, LTC Advance etc. are exhibited in the accounts net of Debit and Credit as per past practice.

(c) Relief (Flood, Drought), House Building and other loans—Rs. 11,33,199.86.

Amount paid to NSSO workers has not been ascertained and accounted for separately.

(d) Sundry Debtors—Rs. 81,350.81. (Considered Doubtful).

This item includes old outstanding balances carried forward from 1963-64 and onwards. The major part of the balance is recoverable from Gun & Shell Factory (Rs. 49,721.87). Any amount becoming finally irrecoverable will be adjusted in the year it becomes actually bad.

### 7. Additional D.A. Deposits with Regional Provident Fund Commissioner :

Rs. 2,49,883.70 (Dr.)

Rs. 2,62,338.91 (Cr.)

The difference of Rs. 12,455.21 is under scrutiny.

### 8. Cash & Bank Balances :

(a) Cash balance in hand and at Banks as shown in the Schedule VI attached to the Balance Sheet indicates the balancing figures as the individual cash and bank balances are not maintained separately for individual fund account.

(b) Bank Balances :

(i) United Bank of India Dunlop Bridge Branch—Rs. 66,21,014.09

The above includes pay order for Rs. 1,000/- deposited by a contractor towards Earnest Money/Security Deposit.

(ii) Nath Bank Ltd. (in liquidation)—Rs. 3,812.57.

Liquidation proceedings is still continuing and dividends are received from time to time. After close of liquidation proceedings, unrecovered amount will be determined and written off.

(iii) Pass Book of R. B. I. and Certificate of State Bank of India, Strand Road Branch, Delhi Branch and Nath Bank Ltd. (in liquidation) couldn't be obtained.

(c) Foreign currency cheques are accounted on realisation basis.

## INDIAN STATISTICAL INSTITUTE

### 9. *Other Liabilities*—Rs. 25,03,456.77

Provision for liability has been made generally for payments made upto 30th June 1981 for goods and services received by the Institute relating to the year ended on 31st March, 1981. Some payments have been made in 1980-81 for the expenses of the past years for which no provisions were made.

### 10. *Interest on Investment in Government securities in respect of Institute and its Funds :*

Interest which is accrued and due for payment, is only accounted as per the practice followed. Actions are being taken to collect the interest.

11. An amount of Rs. 43,612.58 has been debited to Books and Journals Account for which necessary details are not available. Adjustment, if any, on scrutiny will be carried out in the next year.

12. Project accounts are exhibited on Income and Expenditure basis.

13. Purchase of stationeries, consumable stores, laboratory stores, tools and minor accessories, cost of card, cabinet etc. for the year have been considered as expenditure. Physical verification of stationeries, stores etc. is being made to ascertain abnormal loss, if any, opening and closing stocks of these materials are not considered to find out the revenue impact over the year as per usage of the Institute's accounts. Similarly, opening and closing seeds stocks at Giridih are also not exhibited in the account.

14. (a) Grants-in-aid includes Rs. 7,50,000/- for the year 1980-81 received after 31.3.81.

(b) Repair cost includes Rs. 274.35 recoverable from a party.

15. Medical reimbursement expenses includes Hospital Advances paid by the Institute. Incomplete bills entered in the record of MERU have not been considered in the accounts.

16. Imposition of liquidated damage clause for non-completion of the construction jobs by the contractors within the stipulated time is usually considered at the time of final payment.

### 17. *Capital commitments :*

Contracts remaining to be executed on capital accounts—Rs. 24,04,970.12.

### 18. *Contingent liabilities :*

(a) The Institute may be liable to pay additional rent with interest in respect of Goopta Niwas accommodation at Calcutta, the amount of which is not readily ascertainable. A case is pending with the Calcutta High Court in this respect.

(b) The Institute is contingently liable for payment of claims relating to construction and other work amounting to Rs. 10,41,226.00 and sundry other claims amounting to Rs. 2,27,853.00.

19. Figures for previous year have been regrouped and rearranged wherever necessary to make the comparable with the current year's figure except Miscellaneous Receipts for Recovery of Rent Rs. 2,01,292.12 stock of building materials Rs. 2,59,463.90 and for effects given on merger of funds (details of which shown separately in annexure 3).

Sd. P. K. Chatterjee  
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Director  
Indian Statistical Institute

1A, Raja Subodh Mullick Square,  
Calcutta-700 013  
The 9th December, 1981.

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

ANNEXURE I

INCOME & EXPENDITURE ACCOUNT OF MISCELLANEOUS PROJECT FOR THE YEAR ENDED 31ST MARCH, 1981

| Project                           | Health & Socio Economic Survey              | Urban Poverty Survey Homless persons  | Survey on Malaria Project (ICMR)   | Rural Survey Project at Cocha Bihar | Road User's Survey              | Contour Mapping & Estimation of Geological Parameters | Cost Benefit Analysis of Rural Electrification | Summer School                              | D.C.N.F.P.M.S Project                           | I.L.O. Village Study Project | Solar Powered Pump set Project            | Survey of Public Expenditure on Social Services in W.B. | Summer School on use of Elec. Computer in Research & Development | Strategies for Integrated rural development, North Ganara District | Changing land relation and Women                | Project on women and rice cultivation           | Project Research Methodology in Economic Theory | Fellowship Project                        | Total        |
|-----------------------------------|---|---------------------------------------|------------------------------------|-------------------------------------|---------------------------------|---|--|--|---|------------------------------|---|---|--|--|---|---|---|---|--------------|
| Sponsoring Authority              | Calcutta Metropolitan Development Authority | Indian Council of Social Se. Research | Indian Council of Medical Research | Sitai Panchayat Samity              | Central Road Research Institute | Central Mine Planning & Design Institute Ltd.         | Rural Elec-trification Corporation Ltd.        | National Council of Edu. Research & Train. | Electronics Comm. Tech-nology Dev. & Imp. Divn. | Asian Employment Programme   | West Bengal Science & Technical Committee | Indian Council of Social Research                       | Dept. of Electronics Govt. of India                              | Indian Council of Social Science Research (514)                    | Indian Council of Social Science Research (513) | Indian Council of Social Science Research (255) | Indian Council of Social Science Research       | Indian Council of Social Science Research | Total        |
| Income upto 30.3.80               | 2,18,351.39                                 | 47,499.00                             | —                                  | —                                   | 10,000.00                       | 35,000.00   | 1,15,000.00                                    | —  | —   | 32,336.29                    | —   | 47,499.00   | 36,538.83  | 11,875.00  | 19,950.00                                       | 31,687.00                                       | —   | 46,153.00                                 | 6,51,869.51  |
| Income Current year               | 15,000.00                                   | —                                     | 32,900.00                          | 7,500.00                            | —                               | 35,000.00   | 10,000.00                                      | 1,970.00                                   | 1,35,000.00                                     | 15,447.92                    | 1,02,562.00                               | —   | —  | 11,875.00  | —   | 19,000.00                                       | 9,500.00  | —   | 3,95,754.92  |
| Sponsoring Authority              | 15,000.00                                   | —                                     | 32,900.00                          | 7,500.00                            | —                               | 35,000.00   | 10,000.00                                      | 1,970.00                                   | 1,35,000.00                                     | 15,447.92                    | 1,02,562.00                               | —   | —  | 11,875.00  | —   | 19,000.00                                       | 9,500.00  | —   | 3,95,754.92  |
| Other Income less Refunded        | 80.00                                       | —                                     | —                                  | —                                   | —                               | —   | —  | (—)1,274.80                                | —   | —                            | —   | —   | —  | —  | —   | —   | —   | —   | (—)1,194.80  |
| Sub-total:                        | 15,080.00                                   | —                                     | 32,900.00                          | 7,500.00                            | —                               | 35,000.00   | 10,000.00                                      | 695.20                                     | 1,35,000.00                                     | 15,447.92                    | 1,02,562.00                               | —   | —  | 11,875.00  | —   | 19,000.00                                       | 9,500.00  | —   | 3,94,560.12  |
| Excess of Expenditure over Income | 6,844.94                                    | 3,236.42                              | —                                  | —                                   | 1,472.75                        | —   | —  | —  | —   | 19,381.26                    | —   | 29,624.20   | 135.00   | —  | 1,800.00  | 12,497.07                                       | —   | 2,949.73                                  | 77,941.37    |
| Total:                            | 21,924.94                                   | 3,236.42                              | 32,900.00                          | 7,500.00                            | 1,472.75                        | 35,000.00   | 10,000.00                                      | 695.20                                     | 1,35,000.00                                     | 34,829.18                    | 1,02,562.00                               | 29,624.20   | 135.00   | 11,875.00  | 1,800.00  | 31,497.07                                       | 9,500.00  | 2,949.73                                  | 4,72,501.49  |
| Income upto 31.3.81               | 2,33,431.39                                 | 47,499.00                             | 32,900.00                          | 7,500.00                            | 10,000.00                       | 70,000.00   | 1,25,000.00                                    | 695.20                                     | 1,35,000.00                                     | 47,784.21                    | 1,02,562.00                               | 47,499.00   | 36,538.83  | 23,750.00  | 19,950.00                                       | 50,687.00                                       | 9,500.00  | 46,153.00                                 | 10,46,429.63 |
| Expenditure upto 31.3.80          | 1,37,169.65                                 | 1,02,495.46                           | —                                  | —                                   | 9,604.65                        | 32,869.53   | 68,768.53                                      | —  | —   | —                            | —   | 44,452.58   | 32,634.53  | 10,639.01  | 17,981.72                                       | 23,188.51                                       | —   | 58,406.18                                 | 5,38,208.35  |
| Expenditure Current year:         |   |                                       |                                    |                                     |                                 |   |  |  |   |                              |   |   |  |  |   |   |   |   |              |
| Salary & Honorarium etc.          | 14,652.00                                   | 2,482.40                              | 2,290.50                           | —                                   | —                               | 2,422.07  | 274.00   | 200.00                                     | 1,858.06  | 31,822.16                    | 2,000.00                                  | 1,410.00  | —  | —  | —   | —   | —   | —   | 69,417.79    |
| Travelling Exp.                   | 347.30                                      | —                                     | 1,941.05                           | 4,058.30                            | 1,472.75                        | 4,167.03  | —  | 215.20                                     | 2,653.65  | 2,693.31                     | 475.55                                    | 712.40  | —  | 600.40   | —   | 7,558.55  | 6,544.30  | 2,949.73                                  | 38,390.92    |
| Data Processing                   | 1,753.92                                    | —                                     | —                                  | —                                   | —                               | 15,366.08   | —  | —  | —   | —                            | —   | 27,501.80   | —  | —  | —   | —   | —   | —   | 44,621.80    |
| Contingent Exp.                   | 5,141.92                                    | —                                     | 3,802.25                           | 198.00                              | —                               | —   | 10.75  | 280.00                                     | —   | 313.21                       | —   | —   | —  | —  | 1,000.00  | —   | 212.20  | —   | 10,956.33    |
| Secretarial Amt.                  | —   | —                                     | —                                  | —                                   | —                               | —   | —  | —  | —   | —                            | —   | —   | —  | 2,357.14   | 800.00  | 21,910.00                                       | —   | —   | 25,067.14    |
| Stores & Stationary               | 29.80                                       | 754.02                                | —                                  | —                                   | —                               | —   | 1,045.40                                       | —  | 3,771.45  | —                            | —   | —   | 135.00   | 25.45  | —   | 1,816.32  | —   | —   | 7,577.44     |
| Sub-total:                        | 21,924.94                                   | 3,236.42                              | 8,030.80                           | 4,254.30                            | 1,472.75                        | 21,956.08   | 1,330.15                                       | 695.20                                     | 8,283.06  | 34,829.18                    | 2,475.65                                  | 29,624.20   | 135.00   | 2,982.99   | 1,800.00  | 31,497.07                                       | 6,544.30  | 2,949.73                                  | 1,84,031.42  |
| Excess of Income over expenditure | —   | —                                     | 24,860.20                          | 3,245.70                            | —                               | 13,043.32   | 8,669.85                                       | —  | 1,26,716.94                                     | —                            | 1,00,086.35                               | —   | —  | 8,892.01   | —   | —   | 2,955.70  | —   | 2,88,470.07  |
| Total:                            | 21,924.94                                   | 3,236.42                              | 32,900.00                          | 7,500.00                            | 1,472.75                        | 35,000.00   | 10,000.00                                      | 695.20                                     | 1,35,000.00                                     | 34,829.18                    | 1,02,562.00                               | 29,624.20   | 135.00   | 11,875.00  | 1,800.00  | 31,497.07                                       | 9,500.00  | 2,949.73                                  | 4,72,501.49  |
| Expenditure upto 31.3.81          | 1,50,094.60                                 | 1,05,731.88                           | 8,030.80                           | 4,254.30                            | 11,077.40                       | 54,820.21   | 70,098.68                                      | 695.20                                     | 8,283.06  | 34,829.18                    | 2,475.65                                  | 74,076.78   | 32,769.53  | 13,622.00  | 19,781.72                                       | 54,683.68                                       | 6,544.30  | 61,356.91                                 | 7,22,239.78  |

N. SUNDARAM  
Officer-in-Special Duty  
(Administration & Finance)

B. P. ADRIKARI  
Director

1A, Raja Subodh Mullick Square  
Calcutta-700 013.  
9 December 1981

ROY & BACCH  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

ANNEXURE  
 FORD FOUNDATION  
 FOR VISITING SCIENTISTS AND  
 Statement of Income and Expenditure

| Amount    |                  |   | Amount      |                  |
|-----------|------------------|---|-------------|------------------|
| U.S. \$   | Rupee equivalent |   | U.S. \$     | Rupee equivalent |
| 6,055.00  | 49,509.31        | To Expenses for visiting Faculty out of New York Account .. .. .          | 38,410.00   | 3,14,962.00      |
|           |                  | .. Expenses for Fellowship out of New York A/c.                           | 1,780.00    | 14,596.00        |
|           |                  | .. Expenses for Visiting Faculty out of New Delhi A/c. .. .. .            | 19,849.10   | 1,62,762.62      |
|           |                  | .. Expenses for Fellowship out of New Delhi A/c.                          | 18,000.00   | 1,47,600.00      |
|           |                  | .. Other Expenses out of New Delhi A/c. ..                                | 318.00      | 2,607.60         |
| 53,945.00 | 4,41,086.69      | .. Excess of Income over Expenditure transferred to Balance Sheet .. .. . | 46,142.90   | 3,78,371.78      |
| 60,000.00 | 4,90,596.00      |   | 1,24,500.00 | 10,20,900.00     |

Note : (1) U.S. Dollars converted to Rupee equivalent @ Rs. 8.20 per U.S. Dollar being rate on 31st March, 1981. All payments made in U.S. \$ only.

(2) Total Receipts and Expenditure upto date through New York A/c. is Rs. 11,87,596.00 (U.S. \$ 1,45,000.00) and Rs. 3,79,067.31 (U.S. \$ 46,245.00) respectively.

(3) Total Receipts and Expenditure upto date through New Delhi A/c. is Rs. 3,23,900.00 (U.S. \$ 39,500.00) and Rs. 3,12,970.22 (U.S. \$ 38,167.10) respectively.

(4) Includes prior period expenditure and receipts for Rs. 3,12,970.22 (U.S. \$ 38,167.00) and Rs. 3,23,900.00 (U.S. \$ 39,500.00) respectively.

Sd. P. K. Chatterjee  
 Senior Accounts Officer

Sd. N. Srinivasan  
 Officer-on-Special Duty  
 (Administration & Finance)

Sd. B. P. Adhikari  
 Director

FORTYNINTH ANNUAL REPORT : 1980-81

2

GRANT ACCOUNT

SCHOLARS TO AND FROM INDIA

for the year ended 31st March, 1981

| Amount           |                    | Income   | Amount             |                     |
|------------------|--------------------|--|--------------------|---------------------|
| U.S. \$          | Rupee equivalent   |  | U.S. \$            | Rupee equivalent    |
| 60,000.00        | 4,90,596.00        | By Grant received from Ford Foundation deposited to American Express Int. Banking Corpn., New York .. .. . | 85,000.00          | 6,97,000.00         |
| -                | -                  | .. Grant received from Ford Foundation deposited to American Express Int. Banking Corpn. New Delhi .. .. . | 39,500.00          | 3,21,900.00         |
| <u>60,000.00</u> | <u>4,90,596.00</u> |  | <u>1,24,500.00</u> | <u>10,20,900.00</u> |

1A, Raja Subodh Mullick Square,  
Calcutta-700 013  
The 9th December, 1981.

Roy & Bagchi  
Chartered Accountants

## INDIAN STATISTICAL INSTITUTE

|                                    |                                      |    |    |    | Statement of Funds Balance |                   |                      |    |
|------------------------------------|--------------------------------------|----|----|----|----------------------------|-------------------|----------------------|----|
|                                    |                                      |    |    |    | Fixed Assets               | Investment        | Loan to<br>Institute |    |
|                                    |                                      |    |    |    | Rs.                        | P.                | Rs.                  | P. |
| Development Fund II                | ..                                   | .. | .. | .. | 6,33,422.42                | 50,075.00         | 2,10,000.00          |    |
| E.D.P.C. Unit Fund                 | ..                                   | .. | .. | .. | 5,815.24                   | 7,83,500.00       | 10,00,000.00         |    |
| Honeywell H-400 Computer Unit Fund | ..                                   | .. | .. | .. | 2,26,553.74                | —                 | —                    |    |
| Gratuity Fund                      | ..                                   | .. | .. | .. | —                          | 5,19,226.05       | 23,20,000.00         |    |
| Leave Salary Fund                  | ..                                   | .. | .. | .. | —                          | —                 | —                    |    |
| Supervision Fee Fund               | ..                                   | .. | .. | .. | 1,12,218.11                | —                 | 1,13,000.00          |    |
| Visiting Professors & Fellow Fund  | ..                                   | .. | .. | .. | —                          | —                 | —                    |    |
|                                    |                                      |    |    |    | 9,78,009.51                | 13,52,801.05      | 36,43,000.00         |    |
| <i>Less : Leave Salary Fund</i>    | ..                                   | .. | .. | .. | —                          | —                 | 1,56,000.00          |    |
|                                    |                                      |    |    |    | 9,78,009.51                | 13,52,801.05      | 34,87,000.00         |    |
| <i>Less : Liabilities :</i>        |                                      |    |    |    |                            |                   |                      |    |
| Supervision Fee Fund               | Represented by various fund balances |    |    |    |                            |                   |                      |    |
|                                    |                                      |    |    |    | Development<br>Fund II     | EDPC<br>Unit Fund |                      |    |
| As per last account                | ..                                   | .. | .. | .. | 10,37,746.24               | 17,57,465.56      |                      |    |
| <i>Less : during the year</i>      | ..                                   | .. | .. | .. | 7,367.33                   | —                 |                      |    |
|                                    |                                      |    |    |    | 10,30,378.91               | 17,57,465.56      |                      |    |
| <i>Add : during the year</i>       | ..                                   | .. | .. | .. | —                          | 72,374.00         |                      |    |
|                                    |                                      |    |    |    | 10,30,378.91               | 18,29,839.56      |                      |    |

P. K. Chatterjee  
Senior Accounts Officer

N. Srinivasan  
Officer-on-Special Duty  
(Administration & Finance)

B. P. Adhikari  
Director

**FORTYNINTH ANNUAL REPORT : 1980-81**

as on 31st March, 1981 merged with General Fund

| Interest<br>Accrued |           | Sundry<br>Debtors | Stock of<br>Building<br>Materials | Amount<br>Receivable<br>(Gratuity) | Cash        | Bank                          | Total        |
|---------------------|-----------|-------------------|-----------------------------------|------------------------------------|-------------|-------------------------------|--------------|
| Rs. P.              | Rs. P.    | Rs. P.            | Rs. P.                            | Rs. P.                             | Rs. P.      | Rs. P.                        | Rs. P.       |
| 27,900.00           |           |                   | 84,887.52                         | —                                  | 24,493.97   | —                             |              |
| 19,395.14           | 20,745.50 | —                 | —                                 | —                                  | —           | 383.68                        |              |
| —                   | —         | —                 | —                                 | —                                  | —           | 14,942.12                     |              |
| 3,12,724.50         | —         | —                 | 14,43,037.89                      | 2,805.49                           | —           | 2,30,000.00                   |              |
| —                   | —         | —                 | —                                 | 444.25                             | —           | —                             |              |
| —                   | —         | —                 | —                                 | 5,997.13                           | —           | —                             |              |
| —                   | —         | —                 | —                                 | 113.13                             | —           | —                             |              |
| 3,59,619.64         | 20,745.50 | 84,887.52         | 14,43,037.89                      | 33,853.97                          | 2,45,325.80 | —                             |              |
| —                   | —         | —                 | —                                 | —                                  | —           | —                             |              |
| 3,59,619.64         | 20,735.50 | 84,887.52         | 14,43,037.89                      | 33,853.97                          | 2,45,325.80 | 80,05,280.88                  |              |
|                     |           |                   |                                   |                                    |             | 14,910.37                     |              |
|                     |           |                   |                                   |                                    |             | Net balances of various funds | 79,90,370.51 |

as on 31st March, 1981 as stated below

| Honeywell H-400<br>C. Unit Fund | Gratuity Fund | Supervision<br>Fee Fund | Visiting Professors<br>Fund | Leave Salary<br>Fund  |              |
|---------------------------------|---------------|-------------------------|-----------------------------|---|--------------|
| 2,86,663.16                     | 47,99,364.43  | 2,16,304.87             | 113.13                      |   |              |
| 45,167.30                       | —             | —                       | —                           |   |              |
| 2,41,495.86                     | 47,99,364.43  | 2,16,304.87             | 113.13                      |   |              |
| —                               | 28,429.50     | —                       | —                           |   |              |
| 2,41,495.86                     | 48,27,793.93  | 2,16,304.87             | 113.13                      |   | 81,45,926.26 |
|                                 |               |                         |                             | As per last a/c.<br>(debit Balance)   | 1,55,555.75  |
|                                 |               |                         |                             | Balance of various funds transferred to General fund vide note no. 3(c) of Schedule IX. | 79,90,370.51 |

1.A. Raja Subodh Mullick Square,  
Calcutta-700 013  
The 9th December, 1981

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

ANNEXURE 3A

Income and Expenditure Account of the Funds for the year ended 31st March, 1981

| Previous<br>year<br>Rs. P. | Expenditure   | Current<br>year<br>Rs. P. | Previous<br>year<br>Rs. P. | Current<br>year<br>Rs. P. |
|----------------------------|---|---------------------------|----------------------------|---------------------------|
|                            | To Depreciation on<br>Fixed Assets :<br>Development<br>Fund II                  | 10,587.33                 | 2,575,000                  |                           |
| 18,476.71                  |   |                           |                            | 470.00                    |
| 717.93                     | E.D.P.C Unit<br>Fund<br>Honey-well<br>H-400<br>Computer Unit<br>Fund            | 646.14                    |                            |                           |
| 55,649.44                  |   | 45,167.30                 | 56,400.77                  |                           |
|                            |   |                           | 2,750.00                   | 2,750.00                  |
|                            |   |                           | 56,911.39                  | 73,020.14                 |
|                            | To Excess of in-<br>come over ex-<br>penditure trans-<br>ferred to Fund<br>A/c. |                           | 28,429.50                  | 1,04,199.64               |
|                            |   |                           |                            | -----                     |
| 56,193.46                  | E.D.P.C. Unit<br>Fund   | 72,374.00                 |                            |                           |
| 28,429.50                  | Gratuity Fund   | 28,429.50                 | 1,00,883.60                |                           |
|                            |   |                           | 13,151.71                  |                           |
|                            |   |                           |                            | 7,367.33                  |
|                            |   |                           | 55,649.44                  |                           |
|                            |   |                           |                            | 52,534.63                 |
|                            |   |                           |                            | -----                     |
| -----                      |   | -----                     | -----                      | -----                     |
| 1,59,467.04                |   | 1,57,204.27               | 1,59,467.04                | 1,57,204.27               |
| -----                      |   | -----                     | -----                      | -----                     |

P. K. Chatterjee  
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N. Srinivasan  
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B. P. Adhikari  
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Indian Statistical Institute

1A, Raja Subodh Mullick Square,  
Calcutta-700 013  
The 9th December, 1981

Roy & Bagchi  
Chartered Accountants



INDIAN STATISTICAL INSTITUTE

INDIAN STATISTICAL INSTITUTE CONTRIBUTORY PROVIDENT FUND  
AUDITORS' REPORT

We report that we have audited the attached Balance Sheet as at 31st March, 1981 of the Indian Statistical Institute Contributory Provident Fund signed by us under reference to this report and the relative Income and Expenditure Account for the year ended on that date with the books and records of the Fund maintained by the Institute and produced to us and on the basis of information and explanations given and subject to the remarks mentioned below, have found them to be in accordance therewith.

1. We are informed that the differences between the General Ledger balances of the following accounts and the balances as per Members' Ledger are under scrutiny and reconciliation.

|   | <i>Balance as per<br/>General Ledger</i> | <i>Balance as per<br/>Member's Ledger</i> | <i>Difference</i>   |
|---|--|---|---------------------|
| Members' own subscription                       | 69,69,656.44                             | 69,57,499.61                              | (+) 12,156.83 (old) |
| Employer's contribution                         | 82,55,705.97                             | 82,43,549.14                              | (+) 12,156.83 (..)  |
| Members' Voluntary<br>subscription              | 5,95,223.86                              | 5,96,896.74                               | (-) 1,662.88 (..)   |
| Interim relief due to workers                   | 17,145.26                                | 16,669.66                                 | (+) 475.60 (..)     |
| Additional Dearness Allowance<br>due to workers | 4,34,034.25                              | 4,32,353.36                               | (+) 1,680.89 (..)   |
| <i>Interest payable on :</i>                    |  |   |                     |
| Members' own subscription                       | 36,90,829.33                             | 36,86,120.94                              | (+) 4,708.39 (..)   |
| Employer's contribution                         | 45,02,520.24                             | 45,07,197.74                              | (-) 4,677.50 (..)   |
| Members' Voluntary subscription                 | 72,181.81                                | 74,535.94                                 | (-) 2,354.13 (..)   |
| Interim relief due to workers                   | 13,122.70                                | 12,943.13                                 | (+) 179.66 (..)     |
| Additional Dearness Allowance<br>due to workers | 1,33,148.81                              | 1,32,863.11                               | (-) 285.70 (..)     |

2. Interest on government securities has been accounted for on cash basis as per past practice.
3. Loans to Members—Rs. 26,76,005.45  
The balances extracted from Members' Ledgers were not tallied with the General Ledger balance.
4. Undistributed Income—Rs. 25,24,138.64  
The above includes interest payable to N.S.S.O. upto 31.3.1981.

INDIAN STATISTICAL INSTITUTE

5. Relief loans to Members—Rs. 41,481.00

The above represents amount recoverable from I.S.I. and N.S.S.O. workers, Break up Figures of the amount due from I.S.I. and N.S.S.O. workers were not furnished to us.

6. Income Tax recoverable—Rs. 18,570.00

The above amount is being carried forward for several years and in our opinion, the amount is doubtful of recovery and necessary provision should have been made in the accounts for this amount.

7. Separate sets of books of account should be maintained for the fund instead of keeping the same within the Institute's books of account.

8. Book keeping offers scope for improvement.

9 December, 1961

Roy & Bagchi  
Chartered Accountants

INDIAN STATISTICAL INSTITUTE

INDIAN STATISTICAL INSTITUTE

Balance Sheet

| As at<br>31st March<br>1980 | Fund and Liabilities   |             |              | As at<br>31st March<br>1981 |
|-----------------------------|--|-------------|--------------|-----------------------------|
| Rs. P.                      |  | Rs. P.      | Rs. P.       | Rs. P.                      |
|                             | <i>Members' Own Subscription :</i>                           |             |              |                             |
|                             | As per last account .. .. .                                  |             | 74,64,225.36 |                             |
|                             | Add : during the year .. .. .                                |             | 10,00,337.30 |                             |
|                             |  |             | 84,64,562.66 |                             |
|                             | Less : refunded during the year .. .. .                      |             | 2,08,856.69  |                             |
| 61,64,774.21                | Less : withdrawal to date .. .. .                            |             | 82,55,705.97 | 69,69,656.44                |
|                             |  |             | 12,86,049.53 |                             |
|                             | <i>Employer's Contribution :</i>                             |             |              |                             |
|                             | As per last account .. .. .                                  |             | 74,64,225.36 |                             |
|                             | Add : (i) during the year from workers on deputation .. .. . | 1,850.00    | 9,98,487.30  |                             |
|                             | (ii) during the year from Institute .. .. .                  |             | 10,00,337.30 |                             |
|                             |  |             | 84,64,562.66 |                             |
| 74,64,225.36                | Less : (i) refunded during the year .. .. .                  | 2,07,318.85 | 2,08,856.69  | 82,55,705.97                |
|                             | (ii) amount forfeited during the year .. .. .                | 1,537.84    |              |                             |
|                             | <i>Members' Voluntary Subscription :</i>                     |             |              |                             |
|                             | As per last account .. .. .                                  |             | 4,50,367.63  |                             |
|                             | Add : during the year .. .. .                                |             | 2,64,977.46  |                             |
|                             |  |             | 7,15,345.00  |                             |
| 4,50,367.63                 | Less : refunded during the year .. .. .                      |             | 1,20,121.23  | 5,95,223.86                 |
|                             | <i>Interest Payable :</i>                                    |             |              |                             |
|                             | (a) On Members Own Subscription :                            |             |              |                             |
|                             | As per last account .. .. .                                  |             | 36,39,434.35 |                             |
|                             | Add : for the year .. .. .                                   |             | 7,14,351.42  |                             |
|                             |  |             | 43,53,785.77 |                             |
|                             | Less : paid during the year .. .. .                          |             | 1,04,056.41  |                             |
| 30,84,352.60                | Less : withdrawal to date .. .. .                            |             | 42,49,729.36 | 36,90,829.33                |
|                             |  |             | 5,58,900.03  |                             |
|                             | (b) On Employer's Contribution :                             |             |              |                             |
|                             | As per last account .. .. .                                  |             | 37,16,445.62 |                             |
|                             | Add : for the year .. .. .                                   |             | 9,15,505.28  |                             |
|                             |  |             | 46,31,950.90 |                             |
| 37,16,445.62                | Less : (i) paid during the year .. .. .                      | 1,29,381.32 | 1,29,430.66  | 45,02,520.24                |
|                             | (ii) forfeited during the year .. .. .                       | 49.34       |              |                             |
|                             |  |             |              |                             |
| 2,08,80,165.42              | Carried over : .. .. .                                       |             |              | 2,40,13,935.84              |

**FORTYNINTH ANNUAL REPORT : 1980-81**

**CONTRIBUTORY PROVIDENT FUND**

as at 31st March 1981

| As at<br>31st March<br>1980              |    | Property and Assets   |                                 | As At<br>31st March<br>1981 |                |
|--|----|---|---------------------------------|-----------------------------|----------------|
| Rs.                                      | P. |   |                                 | Rs.                         | P.             |
| <i>Investments at Cost :</i>             |    |   |                                 |                             |                |
| <i>(a) Government Promissory Notes :</i> |    |   |                                 |                             |                |
|  |    | Rs. 3,50,000/-  | 5½% loan 1999                   | .. .. .                     | 3,51,575.00    |
|  |    | Rs. 20,25,000/-   | 5½% loan 1992                   | .. .. .                     | 20,47,275.00   |
|  |    | Rs. 23,00,000/-   | 5½% loan 2000                   | .. .. .                     | 23,03,450.00   |
|  |    | Rs. 18,00,000/-   | 5½% West Bengal loan 1983       | .. .. .                     | 18,00,000.00   |
|  |    | -----   |                                 |                             |                |
| 65,02,300.00                             |    | Rs. 64,75,000/-   | (Market value Rs. 60,57,525.00) | .. .. .                     | 65,02,300.00   |
| 1,34,52,370.00                           |    | (b) Five Year Postal Time Deposit   | .. .. .                         | 1,74,73,570.00              | 2,39,75,870.00 |
| 23,64,194.45                             |    | Loan to Members :   | .. .. .                         | -----                       | 26,76,905.45   |
| 41,768.00                                |    | Relief Loan to ISI and NSSO Workers :   | .. .. .                         |                             | 41,481.00      |
| <br><i>Current Assets :</i>              |    |   |                                 |                             |                |
| <i>Interest accrued :</i>                |    |   |                                 |                             |                |
| 6,45,301.70                              |    | (a) On 5 years Postal Time Deposit  | .. .. .                         |                             | 9,65,937.29    |
| 18,570.00                                |    | Income Tax Recoverable :  | .. .. .                         |                             | 18,570.00      |
| 10,55,303.26                             |    | Amount receivable from Government of India on account of<br>difference in rate of interest payable to NSSO Workers          | .. .. .                         |                             | —              |
| <br><i>Cash and Bank Balances :</i>      |    |   |                                 |                             |                |
| <i>With Banks on Current Accounts :</i>  |    |   |                                 |                             |                |
| 59,129.58                                |    | (i) With United Bank of India, Dunlop Bridge Branch (in the name<br>of Indian Statistical Institute General Provident Fund) | .. .. .                         |                             | 38,750.77      |
| 9,01,888.60                              |    | (ii) Postal Savings Bank Account  | .. .. .                         |                             | 2,35,803.00    |
| -----                                    |    |   |                                 | -----                       |                |
| 2,50,40,825.59                           |    | Carried over  | .. .. .                         |                             | 2,79,53,317.51 |

# INDIAN STATISTICAL INSTITUTE

## INDIAN STATISTICAL INSTITUTE

| As at<br>31st March<br>1980 |    | Fund and Liabilities   |    |    |    | Balance Sheet               |                |
|-----------------------------|----|--|----|----|----|-----------------------------|----------------|
| Rs.                         | P. |  |    |    |    | Rs.                         | P.             |
|                             |    |  |    |    |    | As at<br>31st March<br>1981 | Rs. P.         |
| 2,08,80,165.42              |    | Brought forward :  | .. | .. | .. | ..                          | 2,40,13,935.84 |
|                             |    | (c) On Members' voluntary subscription                         |    |    |    |                             |                |
|                             |    | As per last account  | .. | .. | .. | 48,525.46                   |                |
|                             |    | Add : for the year   | .. | .. | .. | 32,369.23                   |                |
|                             |    |  |    |    |    | 80,894.69                   |                |
| 48,525.46                   |    | Less : paid during the year                                    | .. | .. | .. | 8,712.88                    | 72,181.81      |
|                             |    | (d) On Interim relief :  |    |    |    |                             |                |
|                             |    | As per last account  | .. | .. | .. | 11,008.52                   |                |
|                             |    | Add : for the year   | .. | .. | .. | 2,430.03                    |                |
|                             |    |  |    |    |    | 13,438.55                   |                |
| 11,008.52                   |    | Less : paid during the year                                    | .. | .. | .. | 315.76                      | 13,122.79      |
|                             |    | (e) On Additional Dearness Allowance due to workers :          |    |    |    |                             |                |
|                             |    | As per last account  | .. | .. | .. | 98,901.61                   |                |
|                             |    | Add : during the year  | .. | .. | .. | 37,535.54                   |                |
|                             |    |  |    |    |    | 1,36,437.15                 |                |
| 98,901.61                   |    | Less : refunded during the year                                | .. | .. | .. | 3,288.34                    | 1,33,148.81    |
|                             |    | Interim Relief due to workers :                                |    |    |    |                             |                |
|                             |    | As per last account  | .. | .. | .. | 17,642.76                   |                |
| 17,642.76                   |    | Less : refunded during the year                                | .. | .. | .. | 497.50                      | 17,145.26      |
|                             |    | Additional Dearness Allowance due to workers :                 |    |    |    |                             |                |
|                             |    | As per last account  | .. | .. | .. | 3,91,836.63                 |                |
|                             |    | Add : for the year   | .. | .. | .. | 51,586.28                   |                |
|                             |    |  |    |    |    | 4,43,422.91                 |                |
| 3,91,836.63                 |    | Less : refunded during the year                                | .. | .. | .. | 9,388.66                    | 4,34,034.25    |
|                             |    | Payable to NCSO Workers :                                      |    |    |    |                             |                |
|                             |    | As per last account  | .. | .. | .. | 9,84,874.63                 |                |
| 9,84,874.63                 |    | Less : paid during the year                                    | .. | .. | .. | 9,22,249.48                 | 62,625.15      |
|                             |    | Account under adjustment (net)                                 | .. | .. | .. | 1,996.01                    |                |
| 21,72,058.66                |    | Undistributed income including amounts forfeited as per Income | .. | .. | .. | 25,24,138.64                |                |
| 4,33,517.99                 |    | Expenditure Account  | .. | .. | .. | 6,80,988.95                 |                |
| 4,33,517.99                 |    | Amount due to the Institute                                    | .. | .. | .. | 6,80,988.95                 |                |
| 2,50,40,825.59              |    |  |    |    |    | 2,79,53,317.51              |                |

M. R. Gupta  
Manager/Secretary

A. K. Adhikari  
Member, Board of Trustees

T. Roychowdhury  
Member, Board of Trustees

FORTYNINTH ANNUAL REPORT : 1980-81

CONTRIBUTORY PROVIDENT FUND—Contd.

as at 31st March 1981

| As at<br>31st March<br>1980 | Property and Assets       | As at<br>31st March<br>1981 |
|-----------------------------|---------------------------|-----------------------------|
| Rs. P.                      |                           | Rs. P.                      |
| 2,50,40,825.59              | Brought forward : .. .. . | 2,79,53,317.51              |

-----  
2,50,40,825.59  
-----

-----  
2,79,53,317.51  
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This is the Balance Sheet referred to in our report of even date.

1A, Raja Subodh Mullick Square,  
Calcutta-700 013.  
9 December, 1981.

Roy & Bagchi  
Chartered Accountants

# INDIAN STATISTICAL INSTITUTE

## INDIAN STATISTICAL INSTITUTE CONTRIBUTORY PROVIDENT FUND

Income and Expenditure Account for the year ended 31st March 1981

| 1979-80<br>Rs. P. | Expenditure  | 1980-81<br>Rs. P. | 1979-80<br>Rs. P. | Income  | 1980-81<br>Rs. P. |
|-------------------|--|-------------------|-------------------|---|-------------------|
| 17,82,856.00      | To Excess of income over expenditure carried down .. | 20,52,684.30      | 16,66,739.99      | By Interest on:                                   |                   |
|                   |  |                   |                   | i) G.P. Notes                                     | 3,60,625.00       |
|                   |  |                   |                   | ii) Postal Savings Bank Account ..                | 879.40            |
|                   |  |                   |                   | iii) Five Year Postal Time Deposit ..             | 15,50,270.59      |
|                   |  |                   | 1,16,116.01       | iv) Loan given to the members                     | 1,40,909.31       |
| 17,82,856.00      |  | 20,52,684.30      | 17,82,856.00      |   | 20,52,684.30      |
|                   | To Interest on :                                     |                   | 20,81,062.52      | By Amount brought forward from last account ..    | 21,72,058.66      |
| 7,20,020.79       | i) Members' own subscription                         | 7,14,351.42       |                   | .. Amount forfeited during the year               | 1,587.18          |
| 9,15,551.99       | ii) Employer's Contribution                          | 9,15,505.28       | 187.32            | .. Excess of income over expenditure brought down | 20,52,684.30      |
| 20,358.90         | iii) Members voluntary subscription .. ..            | 32,369.23         | 17,82,856.00      |   |                   |
| 3,112.89          | iv) Interim relief ..                                | 2,430.03          |                   |   |                   |
| 35,002.61         | v) Additional dearness allowance due to workers ..   | 37,535.54         |                   |   |                   |
| 21,72,058.66      | Balance carried over to Balance Sheet .. ..          | 25,24,138.64      |                   |   |                   |
| 38,66,105.84      |  | 42,26,320.14      | 38,66,105.84      |   | 42,26,320.14      |

M. R. Gupta  
Manager/Secretary

A. K. Adhikari  
Member, Board of Trustees

T. Roychowdhury  
Member, Board of Trustees

1A, Raja Subodh Mullick Square,  
Calcutta-700 013,  
9 December, 1981.

Roy & Bagchi  
Chartered Accountants

**FORTYNINTH ANNUAL REPORT : 1980-81**

**CANTEEN**

Balance Sheet as on 31st March 1981

| 1979-80<br>Rs. P. | Liabilities            | 1980-81<br>Rs. P. | 1979-80<br>Rs. P. | Assets  | 1980-81<br>Rs. P. |
|-------------------|------------------------|-------------------|-------------------|---|-------------------|
| 3,352.44          | Capital Fund :         |                   |                   | Current Assets :  |                   |
|                   | As per last account .. | 3,352.44          | 413.00            | Sundry debtors .. ..  | 378.05            |
|                   | Liabilities :          |                   | 1,504.12          | Closing stock (as taken value and certified by the In-charge, Canteen)                    | 3,106.95          |
| 5,609.40          | Sundry creditors ..    | 6,004.08          | 520.60            | Cash-in-hand (as per accounts and as taken and certified by the In-charge, Canteen) .. .. | 474.45            |
|                   |                        |                   | 228.00            | Deposit .. ..   | 228.00            |
|                   |                        |                   |                   |   | 4,187.45          |
|                   |                        |                   |                   | Excess of expenditure over income for the year : .. ..                                    |                   |
|                   |                        |                   | 6,296.12          | For 1979-80 .. ..   | 6,296.12          |
|                   |                        |                   |                   | Less : Excess of income over expenditure for 1980-81 .. ..                                | 1,127.05          |
|                   |                        |                   |                   |   | 5,169.07          |
| -----             |                        | -----             | -----             |   | -----             |
| 8,961.84          |                        | 9,356.52          | 8,961.84          |   | 9,356.52          |
| -----             |                        | -----             | -----             |   | -----             |

A. Mondal  
Senior Assistant Canteen  
Indian Statistical Institute

B. Bose  
Administrative Officer  
Indian Statistical Institute

We have audited the above Balance Sheet as at 31st March, 1981 of the Indian Statistical Institute Canteen 201, B T Road, Calcutta-700 035 and the annexed income & Expenditure Account for the year ended on that date with the books and records as mentioned and produced to us have found them to be in accordance therewith.

J.A. Raja Subodh Mullick Square,  
Calcutta-700 013.  
9 December, 1981.

Roy & Bagchi  
Chartered Accountants



# INDIAN STATISTICAL INSTITUTE

## CANTEEN

Income and Expenditure Account for the year ended 31st March 1981

| 1979-80<br>Rs. P. | Expenditure<br>Rs. P.   | 1980-81<br>Rs. P. | 1979-80<br>Rs. P. | Income  | 1980-81<br>Rs. P. |
|-------------------|---|-------------------|-------------------|---|-------------------|
| 1,870.32          | To Opening Stock ..   | 1,504.12          | 1,94,745.01       | By Sales ..<br>(Tea & Snacks)                       | 1,82,605.36       |
|                   | .. Sundry Purchase<br>Coal (including<br>Firewood Kero-<br>sene oil) .. | 10,996.03         |                   | .. Grant received from I.S.I.                       | 82,677.10         |
| 12,522.57         |   |                   | 55,800.00         |   |                   |
| 27,803.41         | .. Tea & Milk ..  | 32,035.32         | —                 | .. Miscellaneous receipt ..                         | 20.40             |
| 35,816.70         | .. Channa & K. Khir ..  | 27,170.50         | 1,504.12          | .. Closing stock ..                                 | 3,106.95          |
| 65,490.79         | .. Bread & Butter ..  | 59,472.01         | 1,29,673.86       |   |                   |
|                   |   |                   |                   | 6,296.12 .. Excess of expenditure over<br>Income .. | —                 |
| 1,08,884.00       | .. Raw materials<br>purchased (Bazar<br>goods including<br>sugar) ..    | 1,28,471.08       |                   |   |                   |
| 2,096.90          | .. Cleaning materials<br>expenses ..                                    | 2,100.50          |                   |   |                   |
| 47.40             | .. Miscellaneous ex-<br>penses ..                                       | 771.45            |                   |   |                   |
| 928.55            | .. Carriage & Cartage ..  | 1,822.50          |                   |   |                   |
| 48.25             | .. Utensils ..  | 16.40             |                   |   |                   |
| 56.10             | .. Printing & statio-<br>nary ..  | 61.80             |                   |   |                   |
| 20.00             | .. License fees ..  | 20.00             |                   |   |                   |
| 2,653.10          | .. Staff tiffin ..  | 2,718.05          |                   |   |                   |
| 77.00             | .. Repairing charges ..   | 84.00             |                   |   |                   |
| 30.16             | .. Bank commission<br>s/c ..  | 39.00             |                   |   |                   |
| —                 | .. Excess of Income<br>over Expenditure ..                              | 1,127.05          |                   |   |                   |
| 2,58,345.25       |   | 2,68,409.81       | 2,58,345.25       |   | 2,68,409.81       |

*Note* : Expenses on salary, overtime, contribution to Provident Fund, Electricity Charges etc. are borne by the Indian Statistical Institute. Facilities like accommodation, use of furniture and equipment are provided by the Institute free of cost.

A. Mondal  
Sr. Assistant Canteen  
Indian Statistical Institute

B. Bose  
Administration Officer  
Indian Statistical Institute

1A, Raja Subadh Mullick Square,  
Calcutta-700 013.  
9 December, 1981.

Roy & Bagchi  
Chartered Accountants

## INDIAN STATISTICAL INSTITUTE

*President* : Shri Subimal Dutta, ICS (Retd.)

### *The Council*

1. *Chairman* : Shri P. N. Haksar, M.Sc., Bar-at-Law, IFS (Retd.)

### *Representatives of Government of India (4)*

2. (i) Dr. K. C. Sengupta, Director, Central Statistical Organisation, Department of Statistics, Ministry of Planning. 3. (ii) Shri N. K. Panda, Joint Secretary, Ministry of Finance, Department of Expenditure. 4. (iii) Dr. (Mrs.) A. R. Rajeshwari, Principal Scientific Officer, Department of Science and Technology. 5. (iv) Shri K. P. N. Nair, Department of Statistics, Reserve Bank of India.

### *Scientists not employed in the Institute (7)*

*Representative of ICSSR* (1) 6. Professor Bhamburesh Datta

### *Representatives of INSA (4)*

7. (i) Professor M. S. Narasimhan, School of Mathematics, Tata Institute of Fundamental Research, Bombay. 8. (ii) Professor S. S. Shrikhande. 9. (iii) Professor A. K. Sharma, F.N.A. Professor and Head, Department of Botany University of Calcutta. 10. (iv) Dr. S. C. Bhattacharyya, Director, Bose Institute, Calcutta.

### *Scientists co-opted by the Council (2)*

11. (i) Professor Biswajit Nag, Chairman, Electronics Commission and Secretary, Department of Electronics. 12. (ii) Professor S. R. Adke, Head, Department of Statistics, University of Poona.

### *Elected representatives of the Institute Members not employed in the Institute (2)*

13. (i) Dr. P. K. Bose, M.Sc., Ph.D. FSS (London), Centenary Professor and Head, Department of Statistics, University of Calcutta. 14. (ii) Shri S. B. Sen, Planning Adviser, Government of West Bengal.

### *Elected representatives of the employees of the Institute (2)*

15. Shri Subhas Biswas, Representative of scientific workers of the rank below that of Associate Professor or equivalent. 16. Shri K. M. Patnaik, Representative of non-scientific workers.

### *Officers of the Institute (ex-officio) (9)*

17. (i) Director, Dr. B. P. Adhikari

### *Professors-in charge of Scientific Divisions (5)*

18. (ii) Dr. Jayanta Kumar Ghosh, Theoretical Statistics and Mathematics Division. 19. (iii) Dr. Jagabrata Roy, Applied Statistics, Surveys and Computing Division. 20. (iv) Dr. Nikhilesh Bhattacharyya, Social Sciences Division. 21. (v) Dr. Tapan Roychoudhury, Physical and Earth Sciences, Division. (Shri Ashis Sen from 1 December 1980 to 28 February 1981 in absence Dr. T. Roy Choudhury). 22. (vi) Sri Shyam Matai, Biological Sciences Division. 23. (vii) Dr. K. G. Ramamurthy, Head, Statistical Quality Control and Operations Research Division. 24. (viii) Dr. K. R. Parthasarathi, Head, of Delhi Centre. 25. (ix) Dr. Ambarish Ghosh, Dean of Studies. Shri N. Srinivasan, Officer-on-Special Duty, (Administration and Finance), ~~non-member~~ Secretary.