THIRTY-SECOND ANNUAL REPORT April 1963—March 1964



INDIAN STATISTICAL INSTITUTE THIRTY-SECOND ANNUAL REPORT April 1963—March 1964

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THIRTY-SECOND ANNUAL REPORT

April 1963-March 1964

- 1. Genesis: The idea of starting the Indian Statistical Institute was conceived by a group of young men who had gathered round Professor P. C. Mahalanobis in the nineteen twenties in applying statistical methods to the solution of practical problems. This group had their workshop, so to say, in what came to be known as the Statistical Laboratory, which was located in the room of Professor Mahalanobia, then Professor of Physics in the Presidency College. A public meeting organized by this group, and held in December 1931 under the chairmanship of late Sir R. N. Mookerjee, adopted a resolution which led to the establishment of the Institute which was registered on 28 April 1932 as a non-profit distributing learned society under the Societies Registration Act XXI of 1860. A part-time computer was the only worker the Institute had in the first year of its existence. the total expenditure being Rs. 238. At the end of the thirty-second year (31 March 1964). the pay-roll of the Institute comprised of over 2,000 paid workers and the total expenditure (including capital expenditure) was of the order of Rs. 153.72 lakbs. The Indian Statistical Institute Act of 1959 recognized the Institute as an institution of national importance and empowered it to confer degrees in statistics, thus giving the Institute the status of a university. From 1 July 1960 the Institute, through its Research and Training School, has been conducting courses leading to the degrees of Bachelor of Statistics (B.Stat.) and Master of Statistics (M.Stat.). Doctorate degrees of Ph.D. and D.Sc. are also being awarded.
- 2. History of Activities: Since its inception, the Indian Statistical Institute has been carrying out a well-integrated programme of work. This has centred on practical applications of statistics through project work, and these projects have raised problems whose solution has led to original contributions to statistical theory. The Institute's project work has also involved close collaboration with the Government; project work used to be done on business-like lines for both private enterprises and the Government, with contract grants for specified purposes. The Institute was built up, in fact, on such "business" earnings. The lack of trained statisticians and computers led to the establishment of training courses; the Institute's educational activities have steadily increased with passing time, and now involves cooperation with international agencies for training schemes for the whole of South East Asia.

In the early days, project work was mainly concerned with two problems. The first was the control of floods, particularly in Bengal and Orissa. The results of this work were partly immediate, in the implementation of proper measures for flood control, and partly long-term, coming to fruition in such schemes as the Damodar Valley Corporation and the Hirskud Dam Project. The second set of problems centred round agricultural field trials, and established contact with Sir Ronald Fisher as early as in 1925, and resulted in the introduction in India of his great contribution of the design of experiments, before these methods were adopted in other countries outside Britain. Theoretical work on the

design of experiments was started in the nineteen thirties and led to important contributions. Earlier work on authropometry and meteorology provided the basis for contributions to statistical theory, especially multivariate analysis. The work on these problems still continues in the Institute.

In 1936, theoretical and field studies were started at the desire of the Government to develop sample surveys for the improvement of estimates of production of agricultural crops. These studies led to continuing annual crop surveys in Bengal from 1941, and also to important theoretical developments in the design of sample surveys which secured for the Institute a leading position in the world in this subject.

During the Second World War, the Institute became involved in demographic problems. The detailed tabulation of the 1941 population census of India had to be abandoned owing to the exigencies of war. The Institute had been able to persuade the Government to rotain a small sample of the original census slips. On the basis of this sample, the Institute prepared the detailed tables of demographic statistics for the 1941 census. Since that time, research in demography has become an integral part of the Institute's activities.

During the nineteen fities, the Institute developed two major types of project work. The National Sample Survey is the most comprehensive and continuing socio-econometric survey in the world today, and is believed to have proved very valuable to the Government. Statistical Quality Control has developed into a consulting service to Industry on an India-wide basis, and its rapid growth is a measure of the way in which it is fulfilling a basic need in promoting industrial progress of the country.

The most important development of the Institute's work during the nineteen fifties has been the significant contribution to economic planning. The studies on planning were inaugurated at the Institute in Calcutta in 1954 by the late Prime Minister Jawaharlal Nehru, and the Draft Plan Frame for the Second Five Year Plan was prepared on the basis of these studies. The Institute's Planning Unit continues to work in close collaboration with the Perspective Planning Division of the Planning Commission and the National Sample Survey data have been found to be of great help in this work.

Educational Programmes: All over the world, since the nineteen forties, statistical methods are being increasingly used in new fields of work. This is well seen in the number of books which have been published during this period, surveying the applications of statistics in many individual fields of natural science which would once have been thought to be remote from statistical treatment, such as goology. Sir Ronald Fisher summed up the position of statistics as "the key tochnology of the present contury."

The Institute was given powers to award degrees by an Act of Parliament passed in 1959 and sponsored by the late Prime Minister Nehru. This, together with the recognition of statistics as a key technology, has resulted in a new approach to the teaching of statistics in the Institute, which is also expressed in its research programme.

In universities the practice for a long time used to be to give courses in single subjects like mathematics, physics, biology, economics, etc. During the latter part of the nineteenth century, it became necessary to develop new educational programmes in two important fields, namely, medicine and engineering because it was essential for the professional students to have some knowledge and skill in a number of scientific disciplines.

In 1962, Sir Ronald Fisher pointed out that a technologist must talk the language of both theoreticians and practitioners. The education of a technologist must, therefore, have a broad base. A technologist has to see both sides of the fence, and is the channel through which alone the knowledge and skills of others can be made effective. Fisher said, "It is, I believe, in recognising statistics as the key technology of our century, that we can appreciate the special features of the Indian Statistical Institute.... What the sciences have to do with statistics lies in the part they must play in the education of any competent statistician."

Statistics, as a new technology, is concerned with the use of the most economic and efficient methods of observation, measurement; survey, and experimentation, and of the processing of data for the drawing of valid inferences. The scope of statistics thus extends over the whole range of the natural and social sciences.

The courses leading to the B.Stat. or M.Stat. degrees have been formulated to cover a wide range of subjects, somewhat analogous to courses in medicine and engineering. Pure mathematics and the theory of probability have an important place. Theoretical and different branches of applied statistics, naturally, form a large part of the teching programme. Because of the special needs of India, a great deal of attention is given to the economics of planning. In these three groups of subjects, mathematics, statistics and economics of planning, the course includes a good deal of content of knowledge, besides theory and methodology.

In addition, facilities are provided for the students to become familiar with methods of observation, measurement, survey, and experimentation in a number of scientific subjects. Here the emphasis is not so much on the content of knowledge, but on methods; stress is, therefore, given on practical courses and statistical analysis and the interpretation of data.

The Research Policy: Fisher had pointed out "that the science with which the student is to become acquainted must be genuine research in its own right, not what is eloquently called a 'mock-up' for the use of students only." It is, therefore, the policy of the Institute to establish small, high level, research units in both the natural and social sciences to offer facilities for research and training in the use of statistical methods in practice. The Government of India approved this policy in a communication dated 15 June 1962 from the Cabinet Secretariat in the following terms:

"Government accept the view that statistics being a new technology, it should be open to the Indian Statistical Institute to establish and maintain research and study units in subjects other than theoretical and applied statistics, to offer facilities for research and application of statistical methods and for provision of training in such methods. The number of such units would depend on the availability of really ablo research scientists and also on the funds available to the Institute. Similarly in furtherance of the purposes as set out in Section 5 of the Indian Statistical Institute Act, the Institute may establish and maintain units for the study of different languages (including translation units, library science, documentation), etc.) and for auxiliary studies and teaching in different subjects including humanities."

In this plan, each research unit would be concerned with a particular theme. Where there is more than one professional scientist, they may either work jointly on the same topic or on different topics, which would, however, be related to a central problem. Each

research paper may be independent, but the results would be capable of being added together to supply a more comprehensive picture of different aspects of the central theme.

This thematic programme of research is particularly useful in underdeveloped countries. In a large department or the faculty of a University, scientists often work on unrelated topics with practically no possibility of communication, or exchange of views and oriticisms among them. Scientists in a small research unit working on related groups of subjects can easily communicate with one another; a miniature scientific community can then become established with the possibility of a free exchange of views and criticisms. Such scientific cells can then gradually build up a scientific community in the country as a whole.

The concept of a thematic programme for each research unit is also useful in preventing the growth of large units with a big staff dealing with a multitude of subjects. The
Institute's policy is to have small units of pioneering research arranged in a horizontal or
parallel pattern of organization. The Institute policy is also to encourage joint projects
of research and advanced studies by collaboration between two or more research units.

The Institute's small research units are thus intended to play a triple role. Each unit will actively engage in a programme of fundamental research, which will throw up problems of a statistical nature from time to time, some of which may well stimulate the evolution of new statistical methods. Each will contribute to the teaching of degree courses in statistics, familiarising students with types of problems, and methods of observation, measurement, and experiment, in its own field of natural science. It is also hoped that the research units will be able to act as a liaison between workers in similar fields of science in Universities and Government organisations, on the one hand, and the research statisticians of the Institute, on the other, to promote the spread of knowledge of statistical methods in scientific research in India.

- 3. Membership: During 1963-64, 207 new members of different categories (8 ordinary, 60 sessional and 139 student) were enrolled, 124 discontinued (25 sessional and 99 student) and 3 ordinary members died, bringing the total membership of the Institute to 637. This number includes 69 life members, 308 ordinary, 5 institutional, 75 sessional and 174 student members. There are six honorary life members.
- 4. Annual General Meeting: The Annual General Meeting was held on 30 October 1963 to transact the business under the constitution, namely, the election of the President, Vice-Presidenta and members of the Council, the adoption of the Annual Report submitted by the Council and Auditors' Report and Audited Statement of Accounts for 1962-63 submitted by Messrs. Lovelock & Lewes, Chartered Accountants, the appointment of auditors etc. The election of office-bearers is due in 1964. A list of the President, Vice-Presidents, Chairman and other office-bearers and members of the Council as after the election of 30 October 1963 is given in Annexure 1. The Auditors' Report and Audited Statement of Accounts for the year 1903-64 is given in Annexure 7.
- Council Meetings: The Council of the Institute met seven times during the period—on 21 May, 11 June, 12 August, 7 October and 21 October in 1963 and 11 March and 25 March in 1964.
- Meetings of the Governing Body of the Research and Training School: The Governing Body of the Research and Training School met on 21 May 1963, 12 August 1963,

21 October 1963, 11 March 1963 and 25 March 1964. The Governing Body discussed certain matters of common interest jointly with the Council in these meetings.

Important business transacted in meetings of the Council and the Governing Body of the Research and Training School are briefly mentioned in Annexure 2.

7. Meetings of the Finance Committees: The Finance Committee of the Council and the Finance Committee of the Governing Body of the Research and Training School met separately on 12 August 1963 and jointly on 21 October 1963 to consider the budget proposals, reappropriation and supplementary sanction, Auditors' Report and Audited Statement of Accounts, the report of the ad hoc Committee on the allocation of expenditure, and related matters.

The ad hot Joint Committee of the Governing Body of the Research and Training School and the Council of the Institute met on 21 October 1963. The Committee examined the allocation of expenditure for the different projects and submitted its report to the Finance Committees of the Governing Body of the Research and Training School and of the Council of the Institute.

A list of members of the Council, the Governing Body of the Research and Training School and of the Finance Committees of these bodies are given in Annexure 1. The ad hoc Joint Committee has been discontinued after 21 October 1963.

- 8. Institute Staff: Processor P. C. Mahalanobis worked as the Honorary Secretary as well as the Director of the Institute. Shri Saradindu Basu continued as the Joint Director and the Joint Secretary, and functioned both in Delhi and Calcutta. Shri Nihar Chandra Chakravarti, Joint Secretary, looked after certain secretarial, constitutional and legal matters, while Shri Sudhirkumar Chowdhuri, the other Joint Secretary, was in charge of the administration in Calcutta. Shri Pitambar Pant worked as the Honorary Joint Secretary in charge of the Planning Unit, SQC Unit, and some administrative work in New Delhi.
- New Appointments: The technical and senior staff of the Institute was strengthened during the year by the addition of the following persons. The date of joining is shown against each name.

Research and Training School: Bhattacharyya, Prodyot Kumar, M.Sc. (Stat.), D.Phil. (Stat.), 12 July 1963; Kalyansundaram, G., B.A. (Hons.), Two-year ISI Training, 23 August 1963; Mazumdar, S. K., M.B.B.S., Diploma in Tropical Medicine and Hygiene (Liverpool University), 26 September 1963; Rao, R. Ranga, M.A. (Math.), Ph.D. (Stat.), Three-year ISI Training, 17 October 1963.

Planning Division, Delhi: Srinivasan, T. N., M.A. (Math.), Ph.D. (Econ.), Twoyear Professional Training in the ISI, 13 February 1964.

Documentation Research and Training Centre: Desai, A. R., M.A. (Econ.), Diploma in Librarianship, 18 April 1963.

Satis Chandra Sen, Legal Adviser, joined on 1 May 1963.

- Honours and Awards: Professor P. C. Mahalanobis was elected a Fellow of the World Academy of Art and Science in May 1963.
- Dr. S. Chaudhuri (Haematology) received the Fellowship of the Royal College of Physicians of London. She is the first woman in Asia to receive the F.R.C.P. (London)

and she is also the first physician among both men and women to possess both the F.R.C.P. (Edin.) and F.R.C.P. (Lond.).

Dr. B. C. Das (Biometry) was elected a member of the Standing Committee on Freshwater Sciences for the Eleventh Pacific Science Congress to be held in Tokyo, Japan, 1965.

Professor R. Mukherjee (Sociology) was invited to become a member of the Expert Committee, United Nations Educational, Scientific and Cultural Organization, Paris, for a meeting on biological implications of race to be held in Moscow in August 1964.

Two Soviet scientists, Dr. A. Kh. Ahmerov (USSR Academy of Sciences, Moscow), and Dr. A. V. Gussev (Zoological Institute, Leningrad) have named a new genus (Jainius Ahmerov, 1064) and a new species (Ancylodiscoides jaini Gussev, 1963) after Dr. S. L. Jain of the Geological Studies Unit, in recognition of his work on the parasites of fishes, published during 1952-62.

11. Seventieth Birthday Celebrations of Professor Muhalanobis; The seventieth birthday of its Founder-Director Professor P. C. Mahalanobis was celebrated by the Indian Statistical Institute during the year. Messages of greetings were received on the occasion from Dr. S. Radhakrishnan, President of India, Shri Jawaharlal Nehru, Prime Minister, and outstanding scientists and public figures in foreign countries and India. The Council of the Indian Statistical Institute adopted a resolution felicitating Professor Mahalanobis, at its meeting held on 11 June 1963. National Professor S. N. Bose. Dr. D. M. Bose, Director, Bose Institute, Dr. K. R. Nair, Director, Central Statistical Organisation, and Dr. C. R. Rao, Director, Research and Training School, were among the speakers at a ceremony held in the Institute campus on 9 June 1963 to felicitate Professor Mahalanobis. Shri Pitambar Pant, Joint Secretary of the Institute and Chief, Perspective Planning Division, Planning Commission, read the messages of greetings. Dr. C. R. Rao presented to Professor Mahalanobis the two volumes, Essays on Econometrics and Planning and Contributions to Statistics, published on the occasion in appreciation of his contributions to science. An exhibition of photographs of important events in Professor Mahalanobis' life was held on the occasion.

12. Conferences and Scientific Tours Abroad : Professor P. C. Mahalanobis attended meetings of an Expert Committee of the United Nations for the Revision of Terminology of Sample Survey (Uencou, 3 to 11 July 1963); and accompanied by Mrs. Mahalanobis visited Hungary (12 to 19 July 1963) as guests of the Hungarian Academy of Sciences where they both gave lectures. They visited Austria (19 to 22 July 1963) as guests of the Theodor Korner Foundation for discussions on International Economic Cooperation and Partnership. Professor Mahalanobis returned to India on 29 July 1963, after a short visit to the U.K. He went abroad on 16 August and was in Ottawa, Canada (19 to 29 August 1963) to attend the 34th session of the International Statistical Institute as the leader of the Indian delegation and as Honorary President of the International Statistical Institute. He returned to India on 2 September 1963 and, to resume his unfinished programme, he again went abroad on 12 September, 1963 and visited with Mrs. Mahalanobis many places in the U.S.A. and Canada (14 September to 5 October 1963) to give lectures and participate in scientific discussions. They were in Rome (6 to 16 October 1963) as guests of the Pontifical Academy of Sciences, where Professor Mahalanobis attended a study week on economic problems in the Vatican City, Italy, from 7 to 14 October 1963. He returned to India and again went sbroad on 29 October 1963. Professor and Mrs. Mahalanobis visited as invited guests a

number of places, among which may be mentioned Oxford and London, U.K. (29 October to 11 November 1963), Paris (12 to 14 November 1963) as guests of the Franco-Indian Committee for Economic Cooperation; Athens (14 to 24 November 1963) as guests of the National Statistical Services of Greeco, for lectures and discussions; and Egypt (24 November to 5 December 1963) as guests of the Institute of Planning to give lectures and seminars. They returned to Calcutta on 6 December 1963.

- Dr. C. R. Rao attended the 34th session of the International Statistical Institute at Ottawa, Canada, between 21 and 29 August 1963, and also meetings of the Permanent Bureau as Treasurer of the International Statistical Institute. He organised a session on Fiducial Probability and attended a symposium on discrete distributions at Montreal, Canada. He also attended the Gordon Research Conference at New Hampton and IBM Symposium on Statistics at New York.
- Dr. B. C. Das (Research and Training School) attended the tenth international meeting of the Institute of Management Sciences, held at Tokyo, Japan, in August 1963, Professor S. K. Roy (Research and Training School) attended the XI International Congress of Genetics at the Hague during 2 to 10 Soptember 1963.
- Professor D. B. Lahiri (National Sample Survey) toured Europe from 18 June 1963 to 27 July 1963, and attended the U.N. meeting of an Ad hoc Expert Group on Review of Sampling Technology at Geneva. He also visited Prague and Muscow at the invitation of the Czechoslowak Academy of Sciences and the Friendship University, Moscow.
- Shri R. P. Saha (National Sample Survey) worked at the Dominion Bureau of Statistics, Ottawa, Canada, under the Colombo Plan during 18 September 1963 to 1 March 1964. He also visited the U.S. Bureau of Census, Washington; the U.N. Statistical Office, New York; the Contral Statistical Organization and the Social Survey Organization, both in London; the UNESCO Statistical Office, Paris; the ILO Statistical Office, Geneva; and the F.A.O. Statistical Office, Rome.
- Shri A. Neolameghan, (Documentation Research and Training Centre) attended the Second International Congress on Medical Librarianship held in Washington from 16 to 22 June 1963.
- 13. Study Tours and Assignments Abroad: Research and Training School: Dr. C. R. Rao took up an assignment at the Johns Hopkins University as a Visiting Professor from 1 September 1963, under a Senior Scientist Fellowship of the National Science Foundation, USA.
- Dr. A. Matthai left for Bangkok, Thailand, on a UN assignment as Statistical Adviser (Training) on 7 July 1963.
- Dr. D. Basu left for the USA on 11 February 1964 on a teaching assignment at the University of North Carolina.

On an invitation from the Colombo Fisheries Laboratories, Shri R. L. Brahmachary left on 20 March 1964 for Colombo in connection with certain work relating to a research project on polychaetes (biochemical embryology). On an invitation from the Institute di Zoologia, he spent three months in Italy and attended an International Course of Embryology, commencing from October 1963. The first month was spent in the Zoological Station, Naples, and the other two in the Institute of Zoology, Palermo.

Electronics Division: Dr. Ambarish Ghoeh left for the University of Chicago, USA, for a year's study on computer logic and advanced programming under a United Nationa Fellowship.

Dr. E. V. Krishnamurthy left for the University of Chicago, USA, for a year's study on the computer memory system under a United Nations Fellowship.

Shri D. Datta Majumdar left for the University of Wisconsin, USA, for six month's study on computer circuitry under a United Nations Fellowship.

National Sample Survey: Shri S. Raja Rao went on leave for two years on a United Nations assignment as a statistician in Djakarta, Indonesia.

Planning and Regional Survey Units, Delhi: Shri S. M. Kansal went to Poland on seven month's study leave on a fellowship from the Cantral School of Planning and Statistics, Warsaw.

14. Research and Training School: During the period under review, the Research and Training School (RTS) carried out research in advanced probability, mathematics, theoretical statistics and statistical methods, and work in the research science units mentioned below.

The Research and Training School carried out its work under the direction of C. R. Rao as the Head of the Division of Theoretical Research and Training till 31 July 1963 and thereafter under B. P. Adhikari. The units for applied research and science laboratories attached to the Research and Training School (together with the names of the heads of units) are as follows:—Biswanath Prosad Adhikari. (Anthropometry), Prabhat Ranjan Pal (Biochemistry), Buppendra Chandra Das (Biometry), Subodh Kumar Roy (Botany), Trupapur Antony Davis (Crop Science), Pran Kumar De (Chemistry), Jogabrata Roy (Data Processing), Manapadom Venkateswarier Raman (Demography), Nalini Kanta Bose (Flood Research), Bimalendu Roychaudhuri (Geological Studies), Sujata Chaudhuri (Haematology), Shibabrata Chatterjee (Psychometric Research and Service) and Ramkrishna Mukherjee (Sociology). Abraham Matthai was in charge of the International Statistical Education Centre till 8 July 1963, after which Suit Kumar Mitra took over charge.

The research in some of the units was carried out with the collaboration of guestscientists from abroad, among whom may be montioned, Professor C. Berge, University
of Paris (Graph Theory); Professor J. A. Gallagher, Oxford University and Dr. A. Seal,
Cambridge University (Historical Research); Dr. P. L. Robinson, University College, London,
and Dr. E. H. Colbert, Chairman, Department of Vertebrate Palaeontology, American
Museum of Natural History, New York (Geological Studies). They gave lectures and partioipated in seminars and research consultations.

A list of scientific papers is given in Annexure 4. Computational and processing work done in the Data Processing Unit is shown in Annexure 5.

15. Training Courses: The selection tests for admission of students to the various ourses were held in June 1963 at eight centres. This was the fourth year since the B.Stat. (4-year) and M.Stat. (2-year) degree courses were started in 1960, after the coming into affect of the ISI Act (No. 57 of 1959) empowering the Institute to award degrees. Research

soholars for the Ph.D. degree were also selected. The following training courses were conducted by the Research and Training School in 1963-64.

- 1. Summer Course (Advanced) for Statisticians, at Waltair, during May-June 1963.
- 2. One-year post-M.So. Apprentice, Course, from July 1963.
- Statistical Officer's Course in New Delhi jointly with the Central Statistical Organisation (CSO) for 8 to 9 months from September 1963.
- One-year Evening Course in Statistics at Delhi, in collaboration with the CSG, 6 months from July 1963.
- Six-month Advanced Course in Statistics in New Delhi, in collaboration with the CSO, beginning in May 1963.
- One-year Evening Course in Statistics at Bombay, Calcutta, Hyderabad, Madras and Trivandrum, continued from March 1982; new sesson began in September 1963.
- One-year Training Course in Documentation Research at Bangalore, from June 1963.
- Six-month Course on Punched Card Data Processing Systems at Calcutta, from September 1963.
- Computer's Training Courses in Calcutta, Junior and Senior; Two Sessions: March 1963—September 1963 and September 1963—March 1964.
- 10. Courses at the International Statistical Education Centre in collaboration with the International Statistical Institute, 9 months, from July 1963, under a Board of Directors with representatives of the International Statistical Institute, the Indian Statistical Institute and the Government of India.
- 11. Three-month Course on Electronic Computer Programming.
- 12. Occasional Courses on special subjects.

A table showing the number of students in the various courses is given in Annexture 3.

In July 1963, the first batch of students came into the B.Stat. fourth year. Fourteen students were declared to have passed the M.Stat. examination. Three candidates completed their thesis for the Ph.D. degree of the Institute.

- 16. International Statistical Education Centre (ISEC): Twenty-four students from eight countries attended the Seventeenth Term and Special Courses of the International Statistical Education Centre, Caloutta. The Government of India awarded ten fellowships for the Seventeenth Term under the Technical Cooperation Scheme of the Colombo Plan. Two fellowships were also awarded to candidates from Japan with the help of funds provided by the Government of India. In the final examination, 22 trainees of the Regular Course were declared successful and were recommended Certificates of Merit, while one was recommended a Certificate of Attendance. The certificates were awarded by Professor P. C. Mahalanobis, F.R.S., on 16 April 1964 in a ceremony presided over by Professor S. N. Bose, F.R.S., National Professor.
- 17. Professional Examinations: The professional examinations were held during the year at seven centres in India: Bangalore, Bombay, Calcutta, New Delhi. Giridih, Lucknow and Madras, on the basis of the bye-laws and syllabil for the award of professional

Diplomas and Certificates in statistics that were revised and put into force from 16 January 1962.

The Statistician's Diploma Examination was held twice in the year and the diploma was awarded to 17 candidates who completed all the papers during the year. The Computer's Certificate Examination was also held twice in the year. The Statistical Field Survey Diploma Examination and the Statistical Field Survey (Senior and Junior) Certificate Examinations were held in November 1963. Altogether 293 had registered for these examinations, 261 appeared and 145 passed in one part or another of these examinations.

18. Visiting Professors: During the year, over eighteen distinguished foreign scientists participated in the research, training and other activities of the Institute. Dr. P. L. Robinson, University College, London, who started and organised the Geological Studies Unit through a number of visits during previous years, again started work in the Unit on 15 December 1063. Dr. Robinson's current visit is as a research professor to the Indian Statistical Institute under the Colombo Plan. During this visit of about sixteen months' duration, she would be advising, guiding and collaborating in the various phases of the Unit's field and laboratory programme.

Dr. E. H. Colbert, Chairman, Department of Vertebrate Palaeontology, American Museum of Natural History, Now York, and a leading vertebrate palaeontologist of the world, visited India during January-March 1964 at the invitation of the Indian Statistical Institute. Dr. Colbert participated in a number of geological and palaeontological expeditions organised by the Geological Studies Unit, gavo a number of seminars in the Institute and participated in detailed discussions with staff members of the Geological Studies Unit on their palaeontological work. He gave valuable advice on the setting up of a museum to house various objects of geological and palaeontological interest.

Among other guest-scientists, mention may be made of 1. Dr. Arthur Brown (Arthur D. Little Incorporated, Management Consultants, Cambridge, Massachusetts, USA). 2. Professor H. D. Huskey (Department of Electrical Engineering and Mathematics, University of California, USA), 3. Professor H. Lipson, F.R.S. (College of Technology, Manchester, U.K.), 4. Dr. Leslie Palmier (UNESCO Research Centre on Social and Economic Development in Southern Asia, New Delhi), 5. Dr. Titus Podea (Department of Operational Planning, New York) and 6. Dr. A. J. Smith (University College, London).

- 19. Appraisal Division: Major effort was directed during the year towards research of the survey, scientific and technological types. Survey research was carried out to empirically demonstrate a new approach to examination paper setting originated by Professor P. C. Mahalanobis. Scientific research was conducted on human communication, and technological research was concerned with the development and application of quantitative assessment procedures for the selection of students, teachers, industrial executives and workers. Two major projects on students selection were carried out on an all-India basis. Dr. Rhea Stagner Das was in charge of the Division.
- 20. Electronics Division: As in other years, the two electronic computers were used not only for the Institute's own work but also for that of other scientific institutions. A list of problems solved by the computers for the Institute and other scientific institutions is given in Annexure 5. Work was continued on the joint project for the design and construction of two solid-state digital computers in collaboration with the Jadavpur University. The difficult situation regarding imported components for the project was somewhat ensed

when the University Grants Commission, recognizing the importance of the work, released foreign exchange liberally from its own quots. The United Nations is expected to provide some of the expensive input-output equipment. Research papers were prepared by workers of the Electronic Division (Annexure 4). The Division worked under Shri Samaren ca Kumar Mitra.

21. Planning and Regional Survey Units, New Delhi: During 1963-64, the Planning and Regional Survey Units of the Indian Statistical Institute at New Delhi continued the research work on economic planning and regional survey under the guidance of Shri Pitambar Pant, Honorary Joint Secretary of the Institute, and Chief. Perspective Planning Division, Planning Commission. The Units worked in close collaboration with the Perspective Planning Division in their research activities and a number of studies were carried out jointly.

Planning Division, Calcutta: The main fields of research covered in Calcutta were national income and allied topics, studies on consumption, econometries and other studies. The following foreign experts were among those who took part in lectures and seminars: J. Mars, Director, Graduato School of Economic Development. University of Manchester; V. Ankin, Institute of World Economy and International Relations, USSR Academy of Sciences; and P. A. Feldheim, Institute of Sociology, University of Brussels. Besides papers published in journals and accepted for publication (Annexure 4), 24 working papers were also prepared. Professor Monimohan Mukherjee was in charge of the work in the Calcutta Unit.

22. National Sample Survey Project: This division of the Institute functions as the technical wing of the Government of India's National Sample Survey Organisation. The eighteenth round of the regular socio-economic survey and the Annual Survey of Industries for 1961 and 1962 were in operation during the year. About ten different country-wide enquiries were conducted in each of the socio-economic surveys.

The activities of the Division during the year covered the following types of work:

- (a) the statistical planning of surveys, including sample designs, concepts and definitions, methods for collecting primary information, preparation of schedules of enquiries and training of field workers and technical work relating to field enquiries;
 - (b) programmes of statistical processing and laying down of detailed specifications;
- (c) the conduct of field work in West Bengal and Bombay City together with experimental researches for the improvement of sample design and techniques; and
 - (d) the processing of NSS data.

The processing and tabulation work covered data collected in the 14th, 15th, 16th and 18th rounds of socio-conomic surveys, the sample survey of manufacturing industries in 1960 and 1961, and family living surveys (middle class and working class). The tabulation and processing work was done in Calcutta (Baranagar), Delhi and Giridih. The number of schedules scrutinised was a little less than a million; the number of cards punched was about five millions and there were thirtytwo million card passages.

The sample size for the nineteenth round remained almost the same as that in the eighteenth round. But as Primary Census Abstracts (1961) were available, a new frame was adopted for the nineteenth round. This involved considerable heavy work of scrutiny, stratification, etc., of the new materials. This additional work was carried out by recourse to overtime work rather than by addition to the staff. There was no increase in the number

of tabulators, sorters and other machines and the total equipment consisted of sixteen tabulator units with necessary auxiliary machines, of which eight units were in Caloutta and four each in Delhi and Giridih.

Twelve reports were printed and ten draft reports submitted to the Government in the course of the year (Annexure 6.1 and 6.2).

Shri Nemai Chandra Ghosh was in charge of the NSS work in the Institute during the year.

23. Development Workshop: Seven high-speed electronic sorters were produced during the year and the total produced so far is twentysix. The workshop built a small off-set printing machine for printing numbers on the register counter dials of desk calculators which are being fabricated in the workshop. The lay-out plan of the proposed factory for manufactering calculating machines was completed with the help of two Russian experts who worked in the workshop for about six months.

These experts, P. S. Orlov, Chief Engineer, Moscow Research Institute of Analytical Computers and E. K. Petrov, Senior Engineer, Plant of Calculating Analytical Machines, also submitted a report on the project for the manufacture of calculators. The workshop was entrusted by the Government of India with the production of a number of special components for defence requirements. Eighty-one apprentices were being trained in the workshop under the Apprenticeship Training Scheme.

- 24. Statistical Quality Control (SQC): The SQC units worked during the year at nine centres, Bombay, Bangalore, Baroda, Calcutta, Coimbatore, Delhi, Madras, Ernakulam and Trivandrum. Eighty-one factories were serviced by the SQC units. Training courses were arranged at Bombay, Madras, Calcutta and Baroda (Annexure 3) and special courses of lectures were given at Bangalore, Madras and Kerala. The Training and Promotional Unit at Calcutta also looked after the organisation of training courses. Three booklets on SQC were published during the year. Shri Sures Chandra Sen, Adviser, guided the work on Statistical Quality Control during the year. The Policy Advisory Committee on SQC (Chairman: Shri C. D. Deshmukh and Member Secretary: Shri P. Pant) met on 22 April 1963 and 4 November 1963. Among the subjects discussed were those on a scheme for intensive training in quality control through a diploma course and the extension of consultancy service to the public sector.
- 25. Documentation Research and Training Centre (DRTC): The Documentation Research and Training Centre was established in June 1962 at Bangaloro and worked during the year under the guidance of Dr. S. R. Ranganathan as Honorary Special Professor. The first batch (1962-63) of seven trainees completed their theoretical course and six of them sat for the final examination in April 1963. The formal training course in the DRTC for the second batch (1963-64) of eight trainees concluded by 31 March 1964.

The Annual Seminar on Documentation for 1963 was held in the DRTC from 5 to 10 June 1963 and twenty papers were contributed by librarians and documentatiosts in India and abroad. A meeting of the Board of Studies, DRTC, was held on 13 June 1963. A list of published papers and papers submitted for publication is given in Annexure 4. Three books were published during the year: 1. Colon Classification Ed. 6 (with amendments) by S. R. Ranganathan; 2. Organisation of Libraries by S. R. Ranganathan; 3. Development of Medical Societies and Medical Periodicals in India, 1780-1920, by A. Neolmeghan.

26. Library: The Institute Library has a collection of 1,03,300 volumes of books and bound journals, 25,000 reprints, monographs and specialised technical reports, as also a large collection of maps, micro-films and photo-prints. During the year, the Library acquired 4,286 books and 2,122 periodicals. Scientific and technical publications in different foreign languages, particularly Russian and Japanese, were received from various agencies under the exchange arrangements. The Library continued to issue documentation lists and compiled subject bibliographies and reading lists in different subjects. Forty-two English translations were provided to research workers from Russian, Chinese, Japanese, German and French. Besides documentary reproduction work, the photographic unit attached to the Library also provided photographs required by the scientific departments. The Museum and Central Records made systematic acquisitions, indexing and filing specimens, maps and other materials.

27. Publications: The following were published:

Sankhyā: The Indian Journal of Statistics: Volume 25, series A, 4 parts; Volume 25, series B, 4 parts,

Samvadadhvam; House Journal of the Indian Statistical Institute, Volume 6, No. I.

Indian Statistical Series: The following four books in the Indian Statistical Series were published jointly by the Statistical Publishing Society and the Asia Publishing House under the auspices of the Indian Statistical Institute.

- 1. Better Plant Utilisation in India-A Blue Print for Action by Morris J. Solomon.
- 2. Planning and Statistics in Socialist Countries by I. Y. Pisarev and others.
- 3. Regional Planning by V. L. S. Prakasa Rao.
- 4. Economic Strategy and the Third Plan by J. K. Galbraith and others.
- Visitors: Over 350 visitors from India and abroad (from 24 countries) came to the Institute during the year.
- 29. Construction of Buildings: Additional floor space of 25,300 sq. ft. was constructed over the five buildings at 203 and 205 Barrackpore Trunk Road and 3,750 sq. feet of floor space was constructed at Giridih. An additional space of 400 feet was constructed for the hostel shed at 206 Barrackpore Trunk Road.
- 30. Branches: Mysore State Branch: There were 35 members of different categories at the end of the year. The office-bearers of the Branch for 1963-64 were elected at its tenth annual general body meeting held on 27 May 1963.

The examinations for the Computers' Certificate, Statistical Field Survey Senior Certificate and Statistical Field Survey Diploma and the selection tests for admission to the B.Stat. and M.Stat. courses and for the Appraisal Division of the Indian Statistical Institute were held during the year at the Bangalore centre.

Under the joint auspices of the Mysore State Branch and the Indian Society for Quality Control (Bangalore Branch), a Seminar on Trausport and Productivity was held on 27 August 1963. Shri S. Jayashankar, Chairman, Board of Directors, Hindusthan Aircraft Ltd., Bangalore, presided over the Seminar.

Dr. Titus Podes, Department of Operational Planning, New York, a Visiting Professor at the Indian Statistical Institute, came to Bangalore to hold discussions with the top managements of several industries.

Bombzy Branch: The field work for the eighteenth round was continued during the year. In addition to the schedules on consumer expenditure, population, births and deaths and migration, urban labour force, the following two additional schedules were introduced: 1. Schedule 2.51 on professional liberal arts and 2. Schedule 3.03 to collect the weekly retail price movements of essential commodities.

The tabulation work on the Type-study on Morbidity was in progress during the year and in all 34 tables were prepared and sent to the population division.

The Statisticians' Diploma Examinations were held at the Bombay centre in May and November 1963. The admission tests for the M.Stat. and B.Stat. courses were also held during the above period. The lectures for the third batch of the Evening Course in Statistics commenced in May 1963.

Annexure 1: List of Office-Bearers and Members of the Council, Governing Body and Members of the Committees of the Council and Governing Body

President: Shri C. D. Deshmukh, D.Sc.

Vice-Presidents: Professor S. N. Bose, F.R.S.; Professor D. R. Gadgil, M.A., M.Litt.; Dr. Q. M. Hussain, M.A., Ph.D.; Dr. Balabhadra Prasad, D.Sc., F.N.I.; Dr. S. R. Ranganathan, M.A., D.Litt. (Hons.), F.L.A.

THE COUNCIL: 1963-64

Chairman: Sir D. N. Mitra.

Vice-Chairmen: Shri B. B. Ghosh; Shri K. P. Goenka; Shri S. C. Ray; Shri Vishnu Sahay.

Trensurer: Dr. S. C. Law, M.A., B.L., Ph.D., F.Z.S., M.B.O.U., F.N.I.

Secretary: Professor P. C. Mahalanobis, F.R.S., D.Sc.

Joint Secretaries: Shri S. Basu, M.Sc.; Shri N. C. Chakravarti, M.A.; Shri S. K. Chowdhuri, B.A.; Shri Pitambar Pant. M.Sc.

Members of the Council: 1. Shri S. K. Acharyya, Bar-at-Law; 2. Dr. B. P. Adhikari, M.Sc. (Cal), Dr.es.Sc. (Paris); 3. Shri R. Banerjee, I.A.S.; 4. Dr. U. P. Basu, D.Sc., F.N.I.; 5. Shrimati Chameli Bose, B.Sc. (London); 6. Shri K. T. Chandi; 7. Dr. Bhabatosh Dutta, M.A., Ph.D. 8. Professor H. C. Ghosh, M.A., P.R.S.; 9. Shri D. B. Lahiri, M.Sc.; 10. Shrimati Nirmalkumari Mahalanobis; 11. Shri N. T. Mathew, M.A., M.Sc.; 12. Dr. B. S. Minhas; 13. Shri Kumar Mitter; 14. Shri M. Mukherjee, M.A.; 15. Shri J. K. Pande, M.A.; 16. Shri Satis Chandra Sen, M.A., Li.B.; 17. Shri S. C. Sen, B.A. (Cantab); 18. Shri S. Sengupta, M.Sc. (Dacca), B.Sc. (London); 19. Dr. S. R. Sengupta; 20. Shri P. L. Tandon; and 21. Dr. R. S. Verma.

Government Representatives on the Council: Cabinet Secretary (Shri S. S. Khera, I.C.S. or his representative), Cabinet Secretariat, Government of India; Joint Secretary (Shri P. R. Padhi up to January 1984; thereafter Shri D. J. Madan), Ministry of Finance, Department of Expenditure, Government of India; Chief Director, National Sample Survey (Shri R. Prasad), Government of India.

GOVERNING BODY OF THE RESEASOR AND TRAINING SCHOOL

1. Sir D. N. Mitra, Chairman (ex-officio); 2. Professor P. C. Mahalanobis, Director-Scortary (ex-officio); 3. Shri Dinesh Bahl, Managing Editor, Capital Private Ltd. (Associated Chambers of Commerce of India); 4. Dr. S. N. Sen, M.A., Ph.D. (Indian Economic Association); 5. Shri G. Basu, B.A., F.C.A., F.S.A.S., F.C.I.S., F.I.C., W.A., M.L.C., J.P. (Federation of Indian Chambers of Commerce and Industry); 6. Joint Director (Dr. Uttam Chand), Central Statistical Organisation, Government of India; 7. Joint Socretary (Shri R. P. Padhi up to January 1964 and thereafter Shri D. J. Madan), Ministry of Finance, Government of India; 8. Dr. V. S. Huzurbazar, Professor and Head of the Department of Mathematics and Statistics, Poons University, Poons. (National Institute of Science of India);

Dr. N. S. R. Sastry, M.A., M.Sc., Ph.D., (Reserve Bank of India); 10. Shri D. C. Pavate, M.A. (Cantab), Vice-Chancellor, Karnatak University, Dharwar (Inter University Board); and 11. Professor S. N. Bose, F.R.S.; 12. Dr. U. P. Basu; 13. Shri Kumar Mitter; 14. Dr. B. P. Adhikari; 15. Shri N. C. Chakravarti; 16. Shri S. Basu; 17. Shri Pitambar Pant (Council of the Indian Statistical Institute).

STATISTICAL QUALITY CONTROL: POLICY ADVISORY COMMITTEE, 1963-64

1. Chairman: Shri C. D. Deshmukb. Members: 2. Shri D. P. Agarwal, General Manager, Hyderabad Allwyn Metal Works Ltd.; 3. Shri S. Ananta Ramskrishnan, Chairman, Simpson Group of Industries; 4. Shri N. K. Bhojwani, Executive Director, National Productivity Council; 5. Professor P. C. Mahalanobis; 6. Dr. K. R. Nair, Central Statistical Organisation; 7. Shri H. D. Shourie, Director (Production), Ministry of Commerce and Industries, Government of India; 8. Shri S. C. Sen, Adviser, Indian Statistical Institute, 9. Rear-Admiral D. Sankar, Naval Headquarters; 10. Shri Inderjit Singh, General Manager, Bhilhai Steel Plant; 11. Shri G. D. Somani; 12. Professor M. S. Thacker, Member, Planning Commission; 13. Shri P. L. Tandon, Chairman, Board of Directors, Hindusthan Lever Ltd.; 14. Dr. Lal C. Verman, Director, Indian Standards Institution; 15. Member-Secretary: Shri Pitambar Pant.

FINANCE COMMITTEES

Of the members noted below Nos. 1 to 8 are members of the Finance Committee of the Governing Body of the Research and Training School and Nos. 1 to 3 and 6 to 12 members of the Finance Committee of the Council.

1. Chairman, Indian Statistical Institute (ex-officio) or a Vice-Chairman authorised by him; 2. Secretary of the Institute (ex-officio), or in his absence, a Joint Secretary; 3. Director, RTS or a Joint Director, if any, in charge of Research and Training School; 4. Dr. Uttam Chand, Joint Director, Central Statistical Organisation; 5. Shri D. J. Madan, Joint Secretary, Government of India, Ministry of Finance; 6. Dr. N. S. R. Sastry (Reserve Bank of India); and 7. Sarvasri K. Mitter; 8. Dinesh Bahl; (Representatives of the Governing Body of the Research and Training School); 9. Shri S. C. Ray; 10. A Joint Secretary of the Institute nominated by the Secretary who is to act as Member-Secretary (for joint functioning of the two Finance Committees); 11. Cabinet Secretary (or his representative); 12. Joint Secretary, Ministry of Finance (D. J. Madan), Government of India.

JOURNAL COMMITTEE

Dr. B. P. Adhikari;
 Professor S. N. Bose;
 Professor D. B. Lahiri;
 Dr. Sujit Mitra;
 Dr. J. Roy;
 Dr. T. N. Srinivasan;
 Dr. V. S. Huzurbazar (representative of the Governing Body); and
 Shri Anikendra Mahalanobis (Member-Secretury).

EXAMINATIONS COMMITTEE

Dr. B. P. Adhikari;
 Dr. P. K. Bhattacharyya;
 Shrimati Chameli Bose;
 Shri N. C. Chakravarti;
 Shri V. M. Dandekar;
 Dr. A. George;
 Dr. M. N. Ghosh;
 Shri N. C. Ghosh;
 Professor K. B. Madhava;
 Shri N. T. Mathow;
 I. Dr. B. S. Minhas

12. Dr. S. K. Mitra; 13. Dr. M. N. Murthy; 14. Dr. K. R. Nair*; 15. Shri R. G. Narasimhan; 16. Dr. K. S. Rao; 17. Dr. J. Roy; 18. Shri J. M. Sengupta; 10. Shri M. A. Telang; 20. Shri Sadasiv Sengupta (Member-Secretary); and 21. & 22. two representatives of the Governing Body of the Research and Training School: Dr. Uttam Chand and Dr. S. N. Sen; and 23. Shri K. R. Shah, Officiating Secretary, until the Member-Secretary takes over charge.

BOMBAY BRANCH: 1963-64

President: Shri S. K. Wankhede.

Vice-Presidente: Professor C. N. Vakil, Dr. N. S. R. Sastry, Dr. C. Nanjundiah.

Hon. Secretary: Shri M. A. Telang.

Hony. Joint Secretary: Shri K. A. Antony.

Hon. Treasurer: Shri P. K. Bhowmik.

Members of the Council: 1. Shri S. V. Borker, 2. Dr. R. L. N. Iyengar, 3. Professor V. B. Kamath, 4. Dr. V. N. Patankar, 5. Professor P. N. Phutane.

Mysore State Branch: 1963-64

President: Shri P. S. Narayana.

Vice-President : Shri H. S. Narayana Rao.

Secretary: Shri Srinagabhusana.

Joint Secretary: Shri C. A. Setty.

Treasurer: Shri M. C. Satyanarayana.

Members of the Executive Committee: 1. Sarvasri S. K. Iyengar, 2. M. V. Jambunathan, 3. R. Natarajau, 4. H. S. Narayan Rao, 5. V. Narayana, 6. H. C. Ramanna, 7. M. C. Satyanarayana, 8. C. A. Setty.

Annexure 2: Important Business Transacted in Meetings of the Council and Governing Body, R.T.S.

Joint Meetings of the Council and Governing Body, R.T.S.

21 May 1963: Reporting about Second Convocation of the Institute; approval of Standing Service Orders; acceptance of the Report by the Committee on the National Sample Survey Contract; purchase-cum-exchange of lands in Giridih, purchase of land in Madras; training programme for Statistical Quality Control; report of Pay Committee; retirement of Professor P. C. Mahalanobis from his salaried post of Director of Research and Training School.

Dr. K. R. Nair expressed his inability to serve on the Committee; Shri K. R. Shah was alcoted a member of the Committee after Shri Sadasiv Sengupta took charge as Secretary.

- 11 June 1963: Obituary: Lato Professor K. P. Chattopadhyay; felicitations to Professor P. C. Mahalanobis, F.R.S., Seoretary and Director of the Inatitute on his completion of seventioth year: dates of Council meetings and consideration of short notice matters; procedure of Works Committee; development programme during the Third Plan period; revision of rules needed by the passing of the West Bengal Societies Registration Act (XXVI of 1961); committee for selection of senior scientific workers; intended foreign tour of Professor P. C. Mahalanobis.
- 12 August 1963: Revised budget estimates for 1963-64 and tentative budget proposals for 1964-65; sanction of house rent allowance for staff, report of the Statutory Committee; report about the activities of the Research and Training School including opening of a centre at Trivandrum for evening course in Statistics, Visiting Fellowship for Dr. C. R. Rao at the National Science Foundation of the USA in the Johns Hopkins University; arrangement for the distribution of Sankhyā: the Indian Journal of Statistics, outside India; nomination for election of President, Vice-Presidents and Members of Council for the next term.
- 7 October 1963: Obituary: Dr. K. C. K. E. Raja; approval of the results of all-India statistical examinations; modification of revised budget estimates for 1963-84; matters relating to the ISI Workers' Organisation.
- 21 October 1963: Annual Report, Auditor's Report and Balance Sheet of 1962-63; decision regarding the Joint Ad hoc Committee and two Finance Committees; appointment of Auditors for 1963-64.
- 11 March 1964: Obituary: Late K. C. Mahindra; remuneration of auditors for 1963-84; formation of Journal, Examinations and Finance Committees; approval of results of examinations.
- 25 March 1964: Recommendations of the Second Pay Committee; suggestions of the Board of Management regarding demands made by the ISI Workers' Organisation; review of the revised budget estimates of 1963-64 and the tentative budget proposals of 1964-65; resignation of Dr. C. D. Deshmukh, President of the Institute; resignation of Sir D. N. Mitra, Chairman of the Institute; resignation of Professor P. C. Mahalanobis, Secretary of the Institute.

MEETINGS OF THE GOVERNING BODY, R.T.S.

- 21 May 1963: Acceptance of Honorary Visiting Research Professorship by Dr. J. A. Gallagher; holding the Third Advanced (Summer) Course for Statisticians in the Andhra University, Waltair.
- 12 August 1963: Seminar on Management Science; Selection Committee for senior scientific staff; Professor P. C. Mahalanobis's Tours Abroad.
 - 21 October 1963: Appointment of Director for the Research and Training School.
- 11 March 1964: Representation of the Government representatives on the Governing Body and the Finance Committee of the Governing Body.
- 25 March 1964: Report of the Selection Committee for filling the post of Director of the Research and Training School; recommendations of second pay committee, suggestions of Board of Management regarding damands made by the ISI Workers' Organisation; review of revised budget estimates of 1963-64 and tentative budget proposals of 1964-65.

Annexure 3 : Admissions to Courses

3.1. RESEARCH AND TRAINING SCHOOL

			number	
sl. no.	oourses -	applied	appeared at selection tests	admitted
	FULL TIME	Courses		
1.	Research and Advanced Studies	119	ን 91	9
2.	One-year Post-M.So. Apprentice Course		}	3
3.	M.Stat. 1st year	98	82	29
4.	M.Stat. 2nd year (by promotion)	_	_	(5 IARS) 18
5.	B.Stat. 1st year	439	334	28
6.	B.Stat. 2nd year (by promotion)	_	_	28
7.	B.Stat. 3rd year (by promotion)	_	_	26
8.	B.Stat. 4th year (by promotion)	_	_	20
9.	Statistical Officers' Course (Jointly with the CSO)	_	_	20
10.	Three-month Course on Electronic Computer Programming	123	101	14
11,	International Statistical Education Centre (selected by the International Statistical Institute)	_	_	24
12.	Six-week Summer Course for Statisticians, May-June 1963	61	_	20
13.	Full-time courses : sub-total of admissions			239
1.	PART-TIME AND EV One-year Evening Course in Statistics,	ENING COU	rs es	
••	Part I, Calcutta			
	March 1963-September 1963	132 84	107 73	34
1.2	September 1963-March 1964	84	73	26
2.	Part II, Calcutta			
	March 1963-September 1963	_	_	11
3.		_	_	12
3 1	Calcutta March-September 1963	82	63	27
	September 1963-March 1964	78	53	29
- /-				

,		number			
si. no.	contaes –	applied	appeared at selection tests	admitted	
4.	Computer's Training Course, Senior, Calcutta				
4.1	March-September 1963	-	_	23	
4.2	September 1963-March 1964		-	15	
5.	Six-month Evening Course on Punched Card Data Processing Systems, Calcutta				
5.1	September 1963-March 1964	60	45	16	
6.	One-year Evening Course in Statistics, Delhi (in collaboration with the CSO)				
6.1	March 1962-February 1963	_	_	17	
7.	Six-month Advanced Course in Statis- tics, Delhi (in collaboration with the CSO)				
7.1	September 1962-March 1963	-	_	14	
8,	One-year Evening Course for Statisti-				
8.1	Bombay: May 1963-April 1964	38	38	28	
8.2	Madras: February 1963-February 1964	_	_	21	
8.3	Trivandrum: March 1964-September 1964	_	_	26	
8.4	Hyderabad: (in collaboration with the Indian Institute of Economics)	_		19	
14.	Part-time and Evening Courses : sub-total	of admission	กร	318	
15.	All courses : total admissions			557	

3.2. STATISTICAL QUALITY CONTROL UNITS

sì. no.		number of trainees
1.	Advanced Course on SQC for the Chemical Industry, Bombay, April 1963	21
2.	Basic Training Course on SQC, Bombay. February-March 1964	27 from Industry & 2 SQC trainces
3.	Basic Training Course on SQC for Foundry and Engineering Industry, Madras. July-August 1963	13
4.	Special Training Course on the Statistical Methods for Pharmaccutical and Chemical Industry, Baroda. February-March 1964	15
5.	A Basic Training Course on SQC, Calcutta. January-February 1964	26
в.	All courses	total 104

Annexure 4: List of Scientific Papers

4.1 PAPEES PUBLISHED

A. Statistics

- BHATTACHARYYA, P. K. (1963): On an Analogue of Regression Analysis., Ann. Math. Stat., 34, 1459-1473.
- CHINNAPPA, B. N. (1963): Technical Papers on Sample Designs of Working Class and Middle Class Family Living Surveys, 1958-59, Sankhud, 25 sr. B.
- JOEN, S. (1963): On Classifications by the Statistics R and Z. Ann. Inst., Stat. Math., 15, 237-246.
- (1963): A Tolerance Region for Multivariate Normal Distributions. Sankhyā, 25, sr. A, 363-368.
- (1964): Further Results on Classification by W. Sankhyū, 26, sr. A, 39-36.
- (1964): Methods for the Evaluation of Probabilities of Polygonal and Angular Regions when the Distribution is Bivariate t. Sankhyā, 26, sr. A, 47-54.
- MAHALANOBIS, P. C. (1964): Priorities in Science in Underdeveloped Countries. Sankhyā, 26 sr. B, 45-52. The Eighteenth Pugwash Conference, Udaipur, January.
- MURTHY, M. N. (1963): Some Recent Advances in Sampling Theory. J.A.S.A., 58, 737-755.
- ——— (1963): A Note on Determination of Sample Size. Sankhyā, 25, sr. A, 381-382.
- (1963): Assessment and Control of Errors in Census and Surveys. Sankhyā,
 st. B.
- (1963): Generalised Unbiased Estimation in Sampling from Finite Populations. Sankhyā, 25 sr. B.
- PARTHASARATHY, K. R. (with R. Ranga Rao and S. R. S. Varadhan) (1963): Probabability Distributions on Locally Compact Abelian Groups. Illinois J. Math., 7, 337-369
- (1963): Effective Entropy Rate and Transmission of Information through Channels with Additive Random Noise. Sankhyā, 25, sr. A, 75-84.
- (with S. R. S. Varadhan) (1964): Extension of Stationary Stochastic Processes. Teorya Veroyalnoslei ii ee primenenya, 9, 72-78.
- (with V. V. Sazonov) (1964): On the Representation of Infinitely Divisible Laws in Locally Compact Abelian Groups, Teorya Veroyalnostci ii ee primenenya, 118-122.
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4.2 Papers submitted for publication

(The journal to which the paper has been submitted for publication is mentioned within brackets)

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- BHATTACHARYYA, P. K. (with S. Dasgupta): Classification Between Univariate Exponential Populations. (Sankhyā, sr. A).
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- RAMANUJACHARYULU, C.: Classification of Canonical Forms of Quadrics in Finite Projective Geometry. (Journal of Indian Statistical Association).
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Annexure 5: Electronics Division and Data Processing Unit

5.1 COMPUTER PROGRAMMES IN THE ELECTRONICS DIVISION

al. no.	type of problem	sponsoring authority	numorical mothods and check	programmed by
1.	Numerical Intogration aris- ing out of a Problem on Crystal Lattice Vibration	Department of Solid State Physics, Saha Institute of Nuclear Physics	Simpson's Rule	A. Ghosh
2.	Computation of Trajectories of Shells	Research Establishment ARDE, Kirkee, Poona, Government of India.	Runge-Kutta's Method Double Computation Check	P. K. Mitra
3.	Computation of Trajectories having a different form of Equations	Research Establishment ARDE, Kirkee, Poona, Government of India	Integration of the Equa- tions using Simpson's Rule	M. Roy
4.	Computation of Trajectories with a different Law of Resistance	Research Establishment ARDE, Kirkee, Poons, Government of India	Runge-Kutta's Method using Milno's Check	M. Roy
5.	Some Numerical Computa- tions for a Problem on the Theory of Numbers	Professor S. N. Bose	Double Computation Check	M. Roy
6.	Evaluation of Four Func- tions arising out of the Solution of Equations for a Rotational Flow of a non- Newtonian Fluid	Department of Mathe- matics, Indian Institute of Technology, Khargpur	Double Computation	M. Roy
7.	Solution of Linear Equation baving 24 Unknowns	Research and Training School, Indian Statistical Institute, Survey of India	Iteration Method	M. Roy
8.	Solution of Linear Equa- tions having 7 Unknowns	Survey of India	Pivotal Condensation Mothod	M. Roy
9.	The Reduction of h-f Records to Electron-Density- Height Profiles	National Physical Labora- tory, New Dolhi	Simpson's Rule and Bud- den's Method for In- version of Matrix	•
10.	Solution of Two Sets of Linear Equations having 20 Unknowns and One Set having 10 Unknowns	Institute of Radio Physics and Electronics, Calcutta University	Pivotal Condensation	M. Roy
11.	Solution of Sixty-five sets of Linear Equations having 5 Unknowns and Thirty Sets of Equations having 6 Un- knowns	Department of Civil Engi- neering, Indian Institute of Technology, Kharag- pur	Pivotal Condensation	М. Коу
12.	Randomization Test	Defence Research Institute	Pivotal Condonantion	R. Bose
13.	Invarsion of an 11×11 Matrix	Planning Division, Indian Statistical Institute	Pivotal Condonantion	R. Boso
14.	Numerical Integration	Saha Institute of Nuclear Physics	Simpeon's Rule	R. Boso

al. no	type of problem	sponsoring authority	numerical methods and check	programmed by
15.	Solution of Three Sets of Linear Equations having 9 Unknowns	Research and Training School, Indian Statistical Institute	Pivotal Condensations	R. Boso
16.	Probit Analysis	8.Q.C. Unit, Indian Statistical Institute, Bombay	Pivotal Condonsations	R. Bose
17.	Inversion of Fifteen 5×5 matrices	Department of Civil Engi- neering, Indian Institute of Technology, Kharag- pur	Pivotal Condensations	R. Bose
18.	Solution of a Given Alge- braic Equation and Deter- mination of different Para- meters for Steam Table	Indian Standards Institu- tion, Now Delhi	Modified Newton-Raph- son Method	P. Banerjee
19.	Evaluation of Some given Functions	Indian Institute of Tech- nology, Kharagpur	Modified-Newton-Raph- son Method	P. Banerjee
20.	Problem on Bessel Function	Applied Physics Depart- ment, University College of Science, Calcutta	Modified Newton-Raph- son Method	B. Chanda
21.	Evaluation of Port Matrices and Related Topics	Indian Institute of Techno- logy, Khargpur	Sum Check	B. Chanda
22.	Numerical Integration for Ocean Matrices	Indian Institute of Technology, Kharagpur	Simpsons' Rulo	B. Chanda
23.	Thermal Boundary Layer Problem	Jadavpur University		B. Chanda
24.	Non Contral X2 table	Rosearch and Training School, Indian Statistical Institute	Double Computation	8. Mukherjeo
25.	Evaluation of Latent Roots of Twolvo 4 × 4 Matricos	Department of Chemistry. Presidency College, Calcutta.	Jacobi's Mothod	8. Mukhorjee
26.	Evaluation of Latent Voctors of Twolvo 4 × 4 Matricos	Department of Chemistry, Presidency College, Cal- cutta	Method Based on Caley Hamilton Theorem	8. Mukherjes
27.	Analysis of Proforential Ex- poriment	Rosearch and Training School, Indian Statistical Institute	Sum Check	S. Mukherjoo
28.	Evaluation of Latent Roots and Voctors of Matrices up- to an Order of 12×12 (in a single programme)	Department of Chemistry, Presidency College	Jacobi's Mothod	S. Mukherjee

5.2 Scientific Computation and Processing of Survey Data in the Data Processing Unit

sł. no.	project	undertaken for
1.	*Special Studies on Fractile Graphical Analysis.	Income Distribution Committee.
2.	Schedule 12.0 (Population) of N.S.S. 15th Round.	N.S.S.
3.	Analysis of Data for Rural Health Survey	Dr. J. D. Alter, Rural Health Research Project.
4.	Calculations of Calorific Values	Coal Board.
5.	Estimation of Inflow of Rain Water into Panchet and Maithon Dams.	Damodar Valley Corporation.
в.	Tabulation of Data from Bench Mark Survey on Family Planning.	Family Planning Research Unit, Indian Statistical Institute.
7.	Calculation of Probability Integrals for Non-central Distribution.	Dr. J. Roy.
8.	Primary Teacher's Aptitude Test	Dr. (Mrs.) N. Chatterjee, Tripura.
9.	Analysis of Data on Polio Cases	Dr. S. N. Basu, B. C. Roy Polio Clinic, Calcutta.
10.	Tests for Randomness	Shri S. K. Mitra, Electronics Division, Indian Statistical Institute.

[•] Bulk of the work of this project was done on the IBM 1401, EDP system during 1963-64.

Annexure 6: List of National Sample Survey Reports

6.1 PRINTED REPORTS

al. no.	report no.	title
1	73	Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Fourteenth Round: July 1958-June 1959).
2	74	Report on Land Holdings (5), Rural Sector (Some Aspects of Operational Holdings—Population Zones and All-India) (Eighth Round: July 1954-April 1955).
3	75	Report on Sample Survey of Manufacturing Industries: 1956(2).
4	76	Fortility and Morbidity Rates in India (Fourteenth Round: July 1958-June 1959).

al. no.	report no.	title
5	77	Tables with Notes on Consumer Expenditure (Eleventh Round : August 1958-February 1957).
6	78	Tables with Notes on Consumer Expenditure (Twelfth Round : March-August 1957).
7	79	Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Fifteenth Round: July 1959-June 1960).
8	80	Tables with Notes on Consumer Expenditure (Thirteenth Round : September 1957-May 1958).
9	81	Report on Land Holdings: Urban Sector (Eighth Round: July 1954-April 1955).
10	82	Tables with Notes on Some Aspects of Cost of Cultivation of Paddy, Wheat, Barley, Maize, Millets, Pulses, Oilseeds and Vegetables (Fifth to Seventh Rounds, Urban India, 1951-1953).
11	83	Report on Sample Survey of Manufacturing Industries, 1957(1).
12	84	Tables with Notes on the Sample Survey of Manufacturing Industries: Survey of Scheduled Industries 1957.

6.2 DRAFT REPORTS SUBMITTED TO THE GOVERNMENT OF INDIA

(The date of submission is given in brackets)

sr. no.	report no.	title
1	118/1	Tables with Notes on Family Planning (Sixteenth Round: July 1980-June 1961) (29 April 1963).
2	116/2	Tables with Notes on Family Planning (Sixteenth Round: July 1960-June 1961) (24 March 1964).
3	117	Tables with Notes on the Sample Survey of Manufacturing Industries 1958, (Factory Establishments: Survey Results) (27 April 1963).
4	118	Tables with Notes on Household Indebtedness (Sixteenth Round : July 1960–June 1961) (30 April 1963).
5	119	Preliminary Estimates of Rural Retail Prices (Fifteenth Round: June 1959-June 1960) (14 May 1963).
6	120	Tables with Notes on Consumer Expenditure ($P_{\rm s}$) (Fifteenth Round : July 1959–June 1960) (27 May 1963).
7	121	Tables with Notes on Employment, Unemployment in Rural Areas (Sixteenth Round : July 1960-June 1961) (3 June 1963).
8	122	Tables with Notes on Agricultural Holdings in Rural India (Sixteeenth Round : July 1960-June 1961) (17 June 1963).
9	123	Proliminary Estimates of Rural Retail Price (Sixteenth Round: July 1960-June 1961) (24 October 1963).
10	124	Tubles with Notes on Land Utilisation Survey and Crop-cutting Experiments (Seventeenth Round: July 1961-June 1960) (12 February 1964).

Annexure 7: Statement of Accounts, Auditors' Report and Audited Statement of Accounts, 1963-64.

REPORT ON ACCOUNTS

1. Factors necessitating change in the presentation of Accounts:

For the financial years 1959-60, 1960-61 and 1961-62 we had been preparing only "Receipts and Payments A/cs" in respect of "Current" and "Capital" expenditures and had been placing them before our auditors for their certification and subsequently these audited accounts were being placed before the Council for their approval and finally before the members of the Institute at the Annual General Meeting for adoption.

Although during these three years we had been going by "Receipts and Paymenta Ajos" we had also been preparing proforms Balance Sheets at the close of the said years, showing the financial position of the Institute. Balance Sheet as at 31 March 1963 was also presented to the Annual General Meeting. Government of India (vide their letter no. 10(8)/80-Estt. III dated 13 August 1962) asked us to submit to them Balance Sheets for all the above three years and wanted us to do so every year. Accordingly Balance Sheets in respect of three years were prepared and submitted to the auditors for their certification along with the Balance Sheet for 1962-63. These were drawn up on the basis of valuation of the various assets and liabilities appearing in our General Ledger at the close of each financial year.

In the absence of properly maintained Store and Inventory ledgers the General Ledger balances could not be reconciled. The auditors' reports for all the above four years were accordingly qualified in this respect.

Further, the alteration to the General Fund on account of surplus or deficits as a result of the year's operations could not clearly be shown as the Institute had been preparing "Receipts and Payments A/cs" only.

To remove the qualification in the audit report, the Institute took immediate steps to reorganise the concerned units and to reconcile the value of assets in the General Ledger with those in the Stores and Inventory Ledgers. It was considered desirable to present accounts in a manner so that the result of the year's operation can be clearly shown and accordingly for the year 1963-64 "Receipts and Payments A/cs" has been replaced by "Income and Expenditure A/cs."

2. Accounts:

1. During the financial year 1963-64 the total expenditure incurred by the Institute under Current A/o. smounted to Rs. 134.81 lakhs and against this the total income including the increase of Rs. 20.68 lakhs in the value of partly processed work in the NSS sector amounted to Rs. 119.12 lakhs only, thus leaving the balance of excess of expenditure over income at Rs. 15.69 lakhs. This excess can broadly be analysed as under:

Non-Project sectors including UNTAA	R_{θ} .	1.89 la	kha
NSS sectors	,,	13.54	**
Miso. Project sectors	,,	0.26	**
	Rs.	15.69 la	akhs

.2 On the Capital expenditure side, during the year under review, the Institute's total outlay is about Rs. 18.91 lakhs; against this a sum of Rs. 17.50 lakhs has only been received from the Government.

.3 Financial Resources and Application:

From what has been stated earlier it can be found that the total funds required by the Institute to meet her "Current" and "Capital" expenditure during the year amounted to Rs. 153.72 lakhs (Current Rs. 134.81 lakhs and Capital Rs. 18.91 lakhs). This expenditure was financed from the following resources.

a)				
	ject Sectors Rs. 46.97 lakhs & Capital A/c.			
	Rs. 17.50 lakhs)	168.	64.47	akhs
b)	Grants from Director of Health Services,			
	Govt. of India (Miscellaneous Projects)	**	0.85	
c)	Earnings of NSS	21	36.55	
d)	Cash Credit for NSS work	,,	20.00	,,
e)	Internal Receipts	ы	8.03	,,
f)	Loan from Dev. Fund II	19	1.55	**
$g\rangle$	Creditors	**	22.27	,,
		Rs.	153.72	lakhs

.4 Allocation of Common Services expenditure:

The expenditure of the Common Services has been allocated between Project and Non-Project sectors on the principles laid down by the Finance Committee and Council.

.5 Reasons for Excess expenditure:

1) Non-Project sectors including UNTAA: It should be clearly mentioned at the outset that the excess expenditure of Rs. 1.89 lakhs as stated earlier in this report is in relation to Government grants based on expenditure recommended by the Statutory Committee on Institute's original budget proposals for 1963-64. Institute's revised budget proposals for 1963-64 were considered and approved by the Council in March 1964 and in relation to the revised proposals there is a net saving of Rs. 2.62 lakhs. This is largely due to budgetory control that has been and is being exercised by the Institute since the middle of 1963.

(Rupees	in	lal	che)
---------	----	-----	-----	---

items	statutory committee's recommen- dation	ommittee's revised actual commen- budget expend		deficit (—) (2—4)	deficit (-) surplus (+) (3-4)
(1)	(2)	(3)	(4)	(5)	(6)
House rent allowance		2.23	2.00	-2.00	+0.23
Overtime expenses	0.29	1.09	1.25	-0.98	-0.16
Visiting Professors and Experts	1.50	1.50	2.11	-0.81	-0.61
Machino Tabulation	1.04	1.98	2.12	-1.08	-0.16
Bank charges and interest	0.07	0.47	0.82	-0.55	-0.16
Workers welfare	0.53	0.82	0.98	-0.45	-0.16

A glance at the table pre-page would enable the members to read the relation of actual expenditure with those of the recommendations of the Statutory Committee as well as the revised budget proposals duly approved by the Council in respect of notable items of excess expenditure.

House rent allowance: In the original budget estimates for 1963-64 there was no proposal for payment of this allowance to the workers and therefore no provision was made at that time. The payment of this allowance was considered at a later date and finally approved by the Council sometime in the middle of 1963.

Overtime expenses: A large number of workers went on leave for longer periods than had been anticipated and this was primarily responsible for the excess expenditure under this head. Every effort is being made to reduce this expenditure to a minimum.

Visiting Professors and Experts: Excess expenditure under this head amounted to Rs. 0.61 lakh. During the year under review the Institute succeeded in getting more than 80 reputed foreign scientists to work for the Institute. No salary or remuneration was paid to the visiting scientists but their journey, travelling in India and local expenses had to be met by the Institute.

Of the total number of visiting professors, about 40 were on short visits i.e. visits lasting for less than a week. The Institute's difficulties for restricting this expenditure within the budgetted limit are that availability of services of foreign scientists does not depend on any unilateral programme of the Institute but on the conveniences etc. of the scientists concerned so that in some years the Institute gets a larger number of such visitors with corresponding increase in costs while in other years, there is a saving.

Bank charges and interest: To meet the chronic ways and means difficulties of the Institute expenditure under this head runs into excess. A large number of claims are under negotiation with the Government for a long time and until these are settled there is hardly any possibility of this expenditure being reduced.

Workers' welfare: Major portion of the excess expenditure under this is due to the fact that white during the year a large number of workers went on leave for longer periods than expected the Institute, to keep the work up-to-date, was obliged to allow a reasonably large number of workers to resort to overtime work thereby incurring heavy expenditure on account of meal charges, tiffin etc.

- 2) Project Sectors: During the year under review the NSS sector produced end-products and end-results (including partly processed end-results of about Rs. 20.68 lakks) to the order of Rs. 63.27 lakks (including Rs. 0.60 lakh for work done in the Army Statistical Organisation). In producing those the sector incurred a total expenditure of Rs. 76.81 lakks (including Rs. 0.60 lakh paid to Army Statistical Organisation) thus resulting in an excess of expenditure over income to the order of Rs. 13.64 lakhs. Apparently this gives a very gloomy picture about the sector's activities. The real picture is quite different and to ascertain the correct position the following point should be considered.
- a) Members are aware that since 1959-80 this sector has been working on "Contract" basis and the sector's earnings are by delivering end-products and ond-results to the Government of India on account of NSS work undertaken by it. The rates for these deliveries were fixed on the basis of the sector's total expenditure for the year 1958-59 and aince then no revision of these rates has been made though the sector's total expenditure for goods.

and services have gone up very substantially. It may be mentioned here that the expenditure on pay and allowances alone has gone up since then by about Rs. 12.50 lakhs.

From the expenditure side, it may be mentioned, that there is a saving of about Rs. 1.00 lakh compared to the revised budget proposls and the only notable item where actual expenditure has crossed the budget limit is bank charges and interest. This accounts for much of the difficulties in the financial position of the Institute.

2.6. Balance Sheet: Members are aware that our Auditors Messrs. Lovelock and Lewes qualified their report on our accounts for the year 1903-03. The reason for their qualification was that they could not verify from the records of the Institute the assets and liabilities, except cash and bank balances, as appearing in the balance sheet as at March 31, 1963. The Institute administration took up this matter very seriously and immediate steps were taken to reorganise the Accounts, Stores and Inventory departments. As a result, this year the Institute could give to the auditors all the informations and explanations which were necessary for the purposes of audit of the Institute's accounts for the year 1903-64 and this enabled the Institute to obtain a clean report.

It should be mentioned here that the facts which came to light as a result of reconciliation of Accounts, Stores and Inventory ledgers have been recorded and necessary accounting effect has been given with the General Fund, as can be seen from Schedule III enclosed with the general Balance Sheet. All changes in respect of fixed assets can also be seen in the Schedule I enclosed with the Balance Sheet.

3. Capital Expenditure Account:

Against the budgetted expenditure of Rs. 19.50 lakhs (including Rs. 2.00 lakhs for UNTAA), the total expenditure incurred by the Institute during 1903-61 is Rs. 18.91 lakhs. The only notable item which requires some comment is that interest amounting to Rs. 0.32 lakh on the cash oredit advance of Rs. 5.00 lakhs for stock of building materials has been charged to this account.

4. Finance:

Members are aware that the Institute has been passing through great financial diffioulties for quite some years and unless some action is taken immediately about it, it would keep on increasing and affect its normal activities.

The factors responsible for those difficulties are as under:

- a) No action has been and is being taken by the Government so far to sanction grants for the non-project sectors (including UNTAA) in respect of revised oudget proposals approved by the Council.
- b) The Institute approached the Government for a revision of the value of the NSS work undertaken by it during the years 1950-60 to 1963-64 on the ground that the value of the actual volume of work done, at actual money rates prevailing during the relevant years far exceeded the original value of deliveries of end-products and end-results made during the period. Consideration is still pending with the Government.
- c) A large number of claims amounting to about Ra. 34.90 lakhs (items 7, 8 and 10 of the Assets side of the Balance Shoet) are under negotiation with the Government for a long time. Settlement of these claims is holding over the reorganisation of the Institute's Provident Fand and repayment of loans from the Subsidiary Funds.

5. Subsidiary Funds:

About the Subsidiary Funds no comments are needed. The audited Income and Expenditure accounts and Balance Sheets of all the subsidiary funds of the Institute are enclosed for information of the members.

6. The Indian Statistical Institute General Provident Fund:

The Income and Expenditure A/c. and Balance Sheet of the fund are enclosed for information of the members. It should be mentioned here that out of the bank balance of Rs. 12.58 lakhs as appearing in the Balance Sheet a sum of Rs. 5.71 lakhs has since been utilised to purchase G.P. Notes of the value of Rs. 9.00 lakhs. The surplus of Rs. 9.81 lakh as shown in the Income and Expenditure A/c. will be distributed to the members of this fund.

It may be noted that of the G.P. Notes of face value of Rs. 35.70 lakhs (book value Rs. 31.75 lakhs), securities of the face value of Rs. 22.95 lakhs have been hypothecated to the State Bank of India, Shambazar Branch, against an overdraft limit of Rs. 16.80 lakhs.

AUDITORS REPORT

We have examined the Balance Sheet of the Indian Statistical Institute as at 31st March, 1061, and the relative Income and Expenditure Account for the year ended on that date with the books and records maintained by the Institute and subject to the following have found them to be in accordance therewith.

- Values of assets acquired prior to 31st March, 1952, were calculated from inventories made at that date.
- 2. The value of partly processed National Sample Survey Work amounting to Rs. 71.40.143.00 has been certified by the N.S.S. Department and we were unable to verify it.
- Confirmation in respect of the amounts due from Government shown under items
 Nos. 7.1, 7.2, 8.1, 8.2 and 10 of the Balance Sheet amounting to Rs. 34,90,583.42 have not been seen by us.
- Certain Machines and Equipments manufactured by the Institute or received
 as gifts valued at Rs. 3,20,718,57 and Rs. 22,690.84 respectively have been capitalised this
 year and adjusted through the General Fund Account.
- Certain Books and Journals amounting to Rs. 2,40,616.00 have been capitalised this year, though this was charged partly to Current Expenditure Account and partly to Income and Expenditure Account in 1962/63 and 1963/64.
- Additions of Building, Sheds and Structures during the year include interest amounting to Rs. 32,047.90 paid on the Cash Credit Account with the State Bank of India.
- Miscellaneous Receipts amounting to Ra. 8,815.76 have not been included in Income and Expenditure Account for the year but has been adjusted through the General Fund Account.

Calcutta, 17th August, 1984. Lovelock & Lewes

CHARTERED ACCOUNTANTS.

BALANCE SHEET

FUNDS & LIABILITIE	:8		Ra.	aP.	Ra.	nP.	Ra.	nP.
GENERAL FUND: (including value of UNTAA equipm As per schedule No. III—enclosed	nent).						1,00,01,4	(01.89
2. OTHER FUNDS: As per contra								
.1 Visiting Professors & Fellows Fund					113	. 13		
.2 Leave Salary Fund					8,53,925	.76		
.\$ Gratuity Fund					18,71,471	.91		
.4 Development Fund No. I					1,19,521	-94		
.5 Development Fund No. II					12,75,059	. 53		
.6 Supervision Fee Fund					2,16,304	1.87	41,36,3	90.14
3. TEMPORARY LOANS FROM CAPITAL EXPENDITURE ACCOU As por last account	FUNDS NT:	10					2 47 6	000.00
4. TEMPORARY ADVANCE FROM CURRENT EXPENDITURE ACCO							*,***,*	000.00
As por last account					5,05,000	0.00		
Less: repaid during the year i) Gratuity Fund ii) Provident Fund	::	::	18,000		1,18,000	0.00		
					3,87,000	0.00		
Add: during the year i) Development Fund No. II ii) Provident Fund	::	::	1,55,000 6,60,000		8,05,000	0.00	11,92,	00.00
6. OVERDRAFT FROM STATE BAN SHAMBAZAR SECURED AGAIN G. P. NOTES OF I.S.I. GENERAL FUND AND G. P. NOTES OF (TRUST) FUND & DEVELOPMENT	PROVID	AIN ENT OR'9					15,95,	960.01
6. CASH CREDIT ADVANCE FROM OF INDIA, SHAMBAZAR BRANG GUARANTEE FROM GOVERNME:	CH AGAI	NST					55,00,	000.00
7. CASH ADVANCE FROM GOVE INDIA_FOR NSS. WORK	RNMENT	OF					15,90,	000.00
8. OUTSTANDING LIABILITIES: As per schedule No. IV—anclosed							82,21,	237.07

2,85,53,989.11

AS AT 31 MARCH 1964

Property & Assets	Rs. nP.	Be. nP.	Ra. nP.
1. FIXED ASSETS: As per schedule No. I—enclosed			88,06,793 24
1. CAPITALISED RENTAL OF TELEPHONES UNDER O.Y.T. SCHEME:			
As per last account Less: transferred to Development Fund No. II		24,859.00 9,575.00	
Less: depreciation @ 5%		15,283.00 764 15	
Addition : during the year		14,518.85 2,066.00	16,584.85
3. ASSETS ACQUIRED FOR UNTAA WORKSHOP:			
As per schodulo No. II-onclosed			5,43,582.49
UNTAA AND GOVERNMENT OF INDIA: As per last account		20,26,612.00 3,03,991.80	17.22.620.20
8. JOINT PROJECT FOR THE CONSTRUCTION OF		3,03,001.00	17,22,020.20
ELECTRONIC COMPUTERS: As per last account Addition during the year-		53,983.84 84,568.46	1,28,532.50
& RECOVERABLE CAPITAL OUTLAY:			11001000.00
As per last account	24 (710 (01	1,69,798.00	
Supervision Fee Fund account Joint Project for construction of Electronic Computers	38,219.01 53,963.84	90,182.85	
Addition during the year		79,615.15 4,756.75	
		84,371.90	
Less: amount received during the year		44,582.85	\$9,789.08
 AMOUNT RECOVERABLE FROM GOVERNMENT OF INDIA: On account of Capital expenditure: As per last account: 			
a) for expenditure upto 1050-60 Less: sale proceeds of De-Sote Station Wagon	3,19.317.00 2,500.00	3,10,817.00	
b) for expenditure for the year 1960-81 c) for expenditure for the years 1961-62 & 1962-63 Add: i) cost of land purchased at Baroda during 1065-63 but not claimed earlier 17,088.17 ii) expenditure for joint project for the construction of Elec-	1,73,921.00	55,814.00	
tronic Computers during 1862-63 not claimed earlier 53,963.84	71,952.01		
Less: transferred to claim under 202 B. T. Road	2,45,273.01 43,931.00		
(item [e] next page)	19,90,699.46	2,01,342.01	
Less: amount received during the year	17,50,000.00	1,40,699.48	
Carried Over 1		7,14,672.47	1,12,67,903.13

BALANCE SHEET FUNDS & LIABILITIES Rs. nP. Rs. nP. Brought Forward: ... 2.85,53,989.11 9. FORD FOUNDATION GRANT: As per last account 77,249.30 Less: transferred to General Fund 29,838.23 47,411.07 Add: refund of travellers cheques 3,943.47 51,354.54 Less: expenditure during the year 12,224.76 39,129,78 10. ROCKEFELLER FOUNDATION GRANT: As per last account 38,355.38 Add: refund of travellers cheques 2,294,45 40,649.83 Less : expenditure during the year 11,908.04 28,741.79 11. DEPOSITS AND OTHER LIABILITIES: .1 Hospitality & House Committee 57,156.36 .2 ISI Labour Co-operative ... 44,069.98 3 Others 68,177.66 .4 Library and other deposits . . 27,347, 27 .5 Income Tax ... 35,640.52

9.717.20

2,42,109, 17

.0 Staff insurance and S W. Housing Scheme etc.

AS AT 81 MARCH, 1964-Contd.

Brought Forward: 7,14,672.47 1,12,67,902.13	Раореату & Азаета	Ra. nP.	Re. nP.	Ra. aP.
As per last account Add: i) transfored from item (e) 10.424.07 10.924.07 Less: amount received during the year 2.87,703.07 7,000.00 2.17,703.07 7,000.00 2.17,703.07	Brought Forward:		7,14,672.47	1,12,67,002.13
Less amount received during the year 2,87,703.07 70,000.00 2,17,703.07 9,32,375.54	As per last account Add: i) transferred from item (a) pre-page 43,931.00			
Less: amount received during the year 2. On accounts of NSS project Sector: 1. Value of ond-predicts delivered during the year 2. Value of ond-predicts delivered during the year 3. Value of ond-results as on 1-4-63 3. 12.56,000.00 1.13,000.00 1.	ii) expenditure for the year 10,424.07	64,355.07		
18,38.000.00 1,13,000.00	Less: amount received during the year		2,17,703.07	9,32,375.54
### Add: end-results delivered during the year 23,11,288.00	a) Value of ond-products delivered during the year		1,13,000.00	
### Account received during the year 23,20,000.00 7,47,286.00 8,60,286.00 #### #### #### ####################		12,56,000.00 23,11,286.00		
MENT OF INDIA IN DIFFERENT NON-PROJECT AND NSS PROJECT SECTORS: 1. Non-Project Sectors: a) for excess expenditure upto 1050-00: As per last account:	Less: amount received during the year		7,47.286.00	8,60,286.00
As per last account 10 for excess expenditure in 1980-81: As per last account 2,92,396.00 2,92,396.00 2,92,396.00 2,92,396.00 2,92,396.00 385.00 385.00 385.00 385.00 385.00 385.00 4,24,844.00 385.00 385.00 4,24,844.00 385.00 385.00 4,24,844.00 385.00 385.00 4,24,844.00 385.00 385.00 385.00 385.00 4,24,844.00 385.00 385.00 4,24,844.00 385.00	MENT OF INDIA IN DIFFERENT NON-PROJECT AND NSS PROJECT SECTORS: 1. Non-Project Sectors:			
As per last account (5) for excess expenditure in 1961-62; As per last account Las: i) amount received during the year 2,92,000.00 ii) claim foregone 385.00 d) for excess expenditure in 1982-63 including UNTAA Sector (6) for excess expenditure for the year 1983-84 including UNTAA Sector 1,89,458.76 1,89,458.7	As per last account		2,25,727.00	
As per last account Less: i) amount received during the year	As per last account		1,84,517.00	
30 10 10 10 10 10 10 10	As per last account Less: i) amount received during the	2,92,395.00		
UNTAA Sector 10 cexcesse expenditure for the year 1963.84 1,89,458.76 1,89,458.76 1,89,458.76 2, NSS Project Sector		2,92,395.00	nil	
1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 10,24,546.76 1,89,458.76 1,89			4 24 844 .00	
Second S	e) for excess expenditure for the year 1963-84			10,24,546.76
0. EXCESS OF EXPENDITURE OVER INCOME IN THE NSS SECTOR FOR THE YEAR 1083.04 10. AMOUNT SPENT IN EXCESS OF INCOME RECEIVABLE FROM GOVERNMENT OF INDIA 1. Research and Planning Committee of the Planning Committee of	For excess exponditure upto 1958-59 as per last			5,44,011.00
IN THE NSS SECTOR FOR THE YEAR 1083.04 13,53,568.00 13,53,568.00 10. AMOUNT SPENT IN EXCESS OF INCOME RECEIVABLE FROM GOVERNMENT OF INDIA : 1. Research and Planning Committee of the Planning C				
CEIVABLE FROM GOVERNMENT OF INDIA: 1. Research and Planuing Committee of the Planning Commission for Sociological Studies: As per last account Less: amount received during the year 38,450.00 23,033.64 2. For 25th Anniversary of the Institute: As per last account 3. For ISCC Colombo Plan Fellowship: As per last account 44,550.00 12,092.88 44,367.10 54,459.98 18,647.89 35,912.09 4. Director of Health Services for Demographic Studies: As per last account 4dd: expenditure during the year 51,607.89 4. Director of Health Services for Demographic Studies: As per last account 4dd: expenditure during the year 69,292.59 69,386.66 Less: amount received during the year 69,386.66 19,825.00 49,543.66	IN THE NSS SECTOR FOR THE YEAR 1983-04			13,53,566.00
Less: amount received during the year 38,450.00 23,033.64 2 For 25th Anniversory of the Institute: An per last account: 4,550.00 3 For ISEC Colombo Plan Fellowship: An per last account: 12,092.86 Add: exponditure during the year 42,367.10 Less: amount received during the year 18,647.89 85,912.09 4 Director of Health Services for Demographic Studies: An per last account: 76.07 Add: exponditure during the year 69,292.59 69,386.66 Less: amount received during the year 19,825.00 49,643.66	CEIVABLE FROM GOVERNMENT OF INDIA: A Research and Planning Committee of the Planning Commission for Sociological Studies:			
As per last account 3 For ISEC Colombo Plan Fellowship: As per last account Add: exponditure during the year Less: amount received during the year 54,459.98 15,647.89 35,912.09 4. Director of Health Services for Demographic Studies: As per last account Add: exponditure during the year 69,292.89 69,292.89 Less: amount received during the year 69,386.66 10,825.00 49,543.86			23,033.64	
As per last account	As per last account		4,650.00	
254.459.98 18,647.89 25,912.08 25,912.08 26,4789 26,912.08 26,4789 26,912.08 26,4789 26,912.08 26,4789		12,092.88		
Less: amount received during the year 18,647.89 85,812.08 4. Director of Health Services for Demographic Studies: As per last account 69,202.89 4. Director of Health Services for Demographic Studies: 76.07 4. Or 76.07 60,202.89 60,208.66 10,825.00 49,643.86	Add: expenditure during the year	42,367.10		
As per last necount	Less : amount received during the year		\$5,912.03	
69,368.66 Less: amount received during the year 19,825.00 49,543.66	As per last account			
	· · · · · · · · · · · · · · · · · · ·	69,368.06	49,543.88	
	•		1,13,130.39	1,59,82,687.43

 FUNDS & LIABILITIES
 R4.
 aP.

 Brought Forward:
 2,88,03,069.85

Total: 2,88,63,069.85

Calcutta, 17th August, 1984.

AS AT \$1 MAROH 1964-Contd.

PROPERTY	& ASSETS			Rs.	nP.	Ra.	nP.	Ra.	nΡ.
Brought F	orward:					1,13,139.	89	1,59,82,68	7.43
10.8 Director of Houlth Service	a for Family	Planning 8	Survey .						
As per Inst account				39,898.7	3				
Add : exponditure during t	ho your			41,326.0	0				
-					-				
Less : amount received dur	ing the year		••	81,224.7 65,000.0		16,224.	73	1,20,36	1.12
11. STOCK OF BUILDING M. WORK IN PROGRESS:	ATERIALS	INCLUDI	NĢ						
(Work in progress-Rs. 00	157.52)							5,57,38	2.52
12. VALUE OF PARTLY PRO	CESSED N	88 WORK						71,40,14	3.00
13. LOANS AND ADVANCES	:								
A Departmental improst						44,000.	81		
.2 Advance for special project	ts and exper	imonte							
(Geological Studies Unit)						27,160.	44		
3 Festival advance to worker	ne .					4,053.			
A Advance to suppliers						41,076.			
.6 Other advances						3,44,415.			
.6 Educational and other less	и					37,381.			
.7 Security deposits						11,070.	30		
.8 Advance to Sankhya Yant	ra (Privato)	Ltd.				6,210.	00		
.0 Sundry debtors						41,025.	91		
.10 Advance and part-paymen	te for land	••	••			80,278.	41	6,39,67	2.06
14. ASSETS OF OTHER FUN As per contra	DS:								
.1 Visiting Professors & Fello	ma Fund					113.	12		
2 Leave Subary Fund	*** T WILL					6.53.925			
3 Gratuaty Fund						18,71,471			
4 Development Fund No. I						1,19,521.			
.5 Development Fund No. II						12,75,052.			
6 Supervision Fee Fund						2,10,304.		41,36,39	0.14
		,-						,,	
16. CASH AT BANK:									
Ford Foundation						39,129.	78		
Rockefoller Foundation						28,741.	70		
						67,871.	67		
Other Banks (Rs. 4,169.72									
Nath Bunk Ltd. in liquid	lation)					16,041.	80	83,91	3.17
16. CASH AND OTHER BAL/	NCES							1,95,01	7.41
	Total :							2,88,63,90	0.85

In terms of our report of even date.

LOVELOGE & LEWES

Chartered Accountants

INCOME AND EXPENDITURE ACCOUNT EXPENDITURE Rs. nP. Rs. nP. To Value of partly processed work in the NSS as on 1-4-63 ... 50,71,993.00 Salary, dearness allowance and remuneration to teachers 2.1 eto. 62,71,330.51 .. House rent allowance 5,84,538.50 .. Employer's contribution for workers' Provident Fund 4,64,816.42 73,20,685.43 . Travelling expenses 3,96,725.96 .. Overtime allowances 6.30.313.34 " Contribution to Leave Salary Fund ... 6,50,742.98 " Visiting professors, foreign scientists, fellows and experts 2,11,124.94 " Scholarshipe, stipends and other assistance to trainsee 3,58,521.89 " Prizes to workers for initiative 18,727.88 .. Contribution to Gratuity Fund 2,78,889.85 .. Machine Tabulation expenses : 10. " Hire and maintenance of tabulating equipment, key punches and verifiers including freight, transport and other charges .1 8,09,172.89 .. Cost of cards and cabinets, stores and stationeries etc. 2,23,198.25 , Service charges to IBM and ICT 11,360.25 " Service charges to RTS Data Processing Unit ... 86,600.00 .. Service charges to SOC Unit 18,860.00 " Payments to Army Statistical Organisation-direct by the 60,000.00 Government of India ... 12,09,191.39 1,55,069.39 11. .. Printing and publication 23,287.65 .. Society type activities ... 31,760.13 " Examination expenses .. 55,047.78 . . 13.1 1,11,958.10 .. Books and journals (including cost of binding etc.) 58,744.89 " Microfilm, photo and audiography ... 1,70,702.99 27,059.94 " Expenses of Translation Unit in Japan Carried over 1,65,54,796.78

FOR THE YEAR ENDED 31 MARCH, 1964

	INCOME	Ra. nP.	Re. nP.
1.	By Block grants from Government of India for Non-Project Sectors:		
.1	"Research and Training School including Computing Machines and Electronic Laboratory	23,64,000.00	
.2	" Planning Division	10,84,000.00	
.3	" Statistical Quality Control	5,36,000.00	
.4	" International Statistical Education Centre	1,63,000.00	
.5	" Utilisation and maintenance of Soviet equipment (UNTAA)	5,60,000.00	46,97,000.00
2.	" NSS Project Sector:		
.1	, Value of end products delivered	18,88,000.00	
.2	" Value of end results delivered	23,11,286.00	
.3	" Value of partly processed work as on 31-3-84	71,40,143.00	
.4	" Army Statistical Organisation	60,000.00	1,13,09,420.00
3.	" SQC receipts from non-Governmental source ;		
	Membership fees, training fees and service charges etc		4,29,343.86
4.	" Membership subscription		3,285.04
5.	" Fees for training courses and sale proceeds of syllabus includ- ing tuition fees for language classes		26,819.40
6.	" Examination fees and other receipts		19,163.50
7.	" Receipts from produce at Giridih experimental farm etc		3,165.76
8.	" Receipte for work done by :		
.l	" Development Workshop (part of the CMEL of RTS)	1,38,598.08	
.2	" Electronic Laboratory	9,380.00	
.3	" Psychometric Unit	1,150.00	
.4	" RTS-Data Processing Unit	95.745.00	
.5	" UNTAA Workshop	65,045.00	2,99,918.08

INCOME & EXPENDITURE ACCOUNT

		EXPENDITURE	Rs. nP.	Rs. nP.
		Brought Forward		1,65,54,796.76
15.	То	Repairs, replacement and maintenance of office equipment, furniture and accessories		1,10,884.20
16.1	.,	Stationeries and consumable stores	1,93,227.89	
.2		Other miscellaneous expenses, viz., advertisement, insurance premium, law charges, coolie, cartage, conveyance and other potty expenses like hot weather contingencies etc.	1,33,132.93	3,28,360.82
17.	,,	Other non-salary contingencies:		
.1		Electricity and telephone charges	2,00,824.25	
.2	.,	Postago, telegram charges, M. O. commission, freight etc	55,473.06	
.3		Audit fees and expenses 22,000.00		
		Lose: written back 1,990. 28	20,009.72	
.4	"	Bank charges and interest	3,53,348.74	6,29,655.77
18.1	,,	Rent, rates and taxes (including those of field, camps and outstation offices)	2,42,482.83	
.2	,,	Repairs and/or maintenance of buildings, land etc. and potty construction	1,39,743.41	3,82,226.24
19.	**	Transport		1,11,021.65
20.	**	Workers welfare and amenities (including overtime tiffin and		
		meel charges)		3,09,758.62
21.	**	Director's discretionary expenditure		nil
22.1	"	Laboratory and workshop stores, tools and minor accessories etc.	1,05,459.63	
.2	"	Material and other charges for experimental farming and rice research scheme at Giridib etc	13,740.00	1,19,199.83
			_	1,85,52,903.59

Note: Depreciation amounting to Re. 8,69,130.19 for

FOR THE YEAR ENDED 31 MARCH, 1984-Contd.

	INCOME	Ra. nP.	Rs. nP.
	Brought Forward		1,68,78,125.24
9.	By Grant for Minor Projects:		
ı.	" Amount received from Director of Health Services, Government of India for Demographic studies	19,825.00	
.2	" Amount received from Director of Health Services, Government of India for Family Planning Survey	65,000.00	84,825.00
10.	" Miscellaneous receipts for :		
.1	" National Apprenticoship (UNTAA)	5,635.00	
.2	"Nowspaper Roadership Survey for Ananda Bazar Patrika Private Ltd	5,000.00	
.3	" Estimation of quinine content survey for Director, Cinchona	10,600.00	21,135.00
11.	Excess of expenditure over income		
.I	In Non-Project Sectors including UNTAA Sector	1,89,458.78	
.2	NSS Project Sector	13,53,566.00	
.3	Miscellaneous Scotor:		
	a) excess of expenditure over income in Demographic studies		
	b) Excess of income over expenditure in Family Planning Survey 23,674.00	25,793.69	16,68,818.35

		1,85,52,903.69	
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the year has been adjusted with General Fund.

In terms of our report of even date.

LOVELOCK & LEWES

Chartered Accountants

STRUCTORDS

STATEMENT SHOWING THE VALUE

particulars	not value of essets as por lest account	adjustment due to regrouping	value of land wrongly appreciated/ depreciated in the carlier years now adjusted	balance	essets of different Funds wrongly treated as property of General Fund in 1962-03 now transferred	balance as on 1-4-63
(1)	(2)	(2.1)	(2.2)	(2.3)	(3)	(3.1)
A. LAND AND LAND DEVELOPMENT: 1. Colcutta: 1. 2.89 acres of land at 203 Barrackpore Trunk Road	1,21,749.95	_	-24,193.00	97,558.95	97,556.95	_
.2 1.2920 and 0.1483 acres of land to the	05 545 00					
contiguous west of Institute building	65,545.90 17,170.69	_	_	85,545.90 17,170.69	_	85,545.94 17,170.49
4 Cost of land at Bidyayatan Sacani	50,000.00	_	_	50,000.00	50,000.00	17,170.5
5 Cost of had at 205 Barrickpore Trunk	3,06,751.75	[-69,868.00	_	3,53,700.75	30,000.00	3,63,700.75
Road (including cost of development)	0,00,101110	+ 26,817.00		0,00,100.10	_	3,03,100.1
.6 Cost of land at 169 G.L. Tagore Road .7 Cost of land at 158, 160, 165 & 168/1,	1,29,855.00	-26,000.00	_	1,03,855.00	1,03,856.00	-
G. L. Tagore Road	_	+96,663.71	_	96,663.71	-	98,663.7
2. Giridih :						
.1 34.68 acres of land acquired at Giridih	23,450.67	_	+725.00	24,175.87	14,681.16	9,514.5
.2 Cost of development & fencing etc	29,689.55	_	_	29,089.55	_	29,659
.3 Farming development	10,682.00	_	_	10,082.00	_	10,682 0
.4 Irrigation & water supply	25,610.00	_	_	25,610.00	_	25,610 0
Giridih	61,144.01		_	61,144.01		61,144 (
.8 Land at Rose Villa, Giridih	1,17,689.87	-44, 366.90	_	73,322.97	73,322.97	_
.7 Land at Biraja Kutir	7,445.19		_	7,445.19	7,445.19	-
.8 Land at Houlth Contro	103.72	-103.72	_	_	_	-
3. Delhi: .1 Land acquired in Delhi	4,00,000.00	_	_	4,00,000.00	-	4,00,000.0
4. Baroda: .1 Land in Baroda	18,489.17	-	-	18,489.17	_	18,489.1
6. Bangalore: 1 Acquisition of land in Bangalore	1,52,918.92	_	_	1,52,918.92	_	1,52,918.9
8. Madras:						
1. Acquisition of land in Madras	15,000.00	_		15,000.00		15,000 0
	16,43,206.39	-16,857.91	-23,468.00	15,000.00	3.46,641.27	
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B. BUILDINGS:		-16,857.91	-23,468.00		3.46,841 . 27	
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B. BUILDINGS: 1. Calcutta:		-16,857.01	-23,468.00		3,46,841.27	
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): BUILDINGS: 1. Calcuta: 1. Institute's main building at 203 Barrack-	16,43,206.39	-18,857.91	-23,468.00		3.46,841.27	12,58,129 3
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B. BUILDINGS: 1. Calcuta: 1. Institute's main building at 203 Barrack-pore Trunk Road		— — 16,857.91 —	-23,468.00	16,02,970.48	3.46,841.27	12,58,129 3
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B.BUILDINGS: 1. Calcuta: 1. Institute's main building at 203 Barrack-pore Trunk Road 2. Construction of buildings at 203 Barrack-pore Trunk Road	9,24,267.00 3,51,955.00		-23,468.00 	9,24,267.00 3,51,055.00	3,46,841.27	
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B. BUILDINGS: 1. Calcuta: 1. Institute's main building at 203 Barrack-pore Trunk Road 2 Construction of buildings at 209 Barrack-	9,24,267.00		-23,468.00 	9,24,267.00	3.46,641.27	9,24,267.0 3,61,055.0
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B.BUILDINGS: 1. Calcuta: 1. Institute's main building at 203 Barrack-pore Trunk Road 2. Construction of buildings at 203 Barrack-pore Trunk Road	9,24,267.00 3,51,955.00			9,24,267.00 3,51,055.00	3.46,841.27 ————————————————————————————————————	9,24,267.0 3,61,055.0
.1 Acquisition of land in Madras Sub-total: (A 1.1-A. 6.1): B.BUILDINGS: 1. Calcuta: 1. Institute's main building at 203 Barrack-pore Trank Road 2. Construction of buildings at 203 Barrack-pore Trank Road 3. Construction of buildings at 206 Barrack-pore Trank Road 3. Construction of buildings at 206 Barrack-pore Trank Road	9,24,267.00 3,51,955.00	- (+09,868.00 -20,817.00		9,24,287.00 3,51,055.00 6,23,429.00	-	9,24,267.0 3,61,055.0
.1 Acquisition of land in Madras Sub-total: {A 1.1-A. 6.1}: 3. BUILDINGS: 1. Calcuto: 1. Institute's main building at 203 Barrack- 207 Trank Road 2. Construction of buildings at 203 Barrack- poor Trank Road 3. Coustruction of buildings at 205 Barrack- poor Trank Road 4. Building at 169, G.L. Tagore Road 4. Building at 169, G.L. Tagore Road 5. Ciridin : 1. Building at Roso-Villa including new	9,24,267.00 3,51,955.00	 (+09,868.00 -20,817.00 +20,000.00		16,02,970.48 9,24,267.00 3,51,055.00 6,23,429.00 26,000.00	26,000.00	9,24,267.0 3,61,055.0
.1 Acquisition of land in Madres Sub-total: (A 1.1-A. 6.1): B. BUILDINGS: 1. Calcutts: 1. Institute's main building at 203 Barrack-pore Trunk Road 2. Construction of buildings at 203 Barrack-pore Trunk Road 3. Construction of buildings at 205 Barrack-pore Trunk Road 4. Building at 169, G.L. Tagore Road 4. Building at 169, G.L. Tagore Road 2. Oiridin: 1. Building at Roso-Villa including new construction	9,24,267.00 3,51,955.00			18,02,970.48 9,24,287.00 3,51,056.00 6,23,429.00 26,000.00	26,000.00	9,24,267.0 3,61,055.0
.1 Acquisition of land in Madras Sub-total: {A 1.1-A. 6.1}: 3. BUILDINGS: 1. Calcuto: 1. Institute's main building at 203 Barrack- 207 Trank Road 2. Construction of buildings at 203 Barrack- poor Trank Road 3. Coustruction of buildings at 205 Barrack- poor Trank Road 4. Building at 169, G.L. Tagore Road 4. Building at 169, G.L. Tagore Road 5. Ciridin : 1. Building at Roso-Villa including new	9,24,267.00 3,51,955.00	 (+09,868.00 -20,817.00 +20,000.00		16,02,970.48 9,24,267.00 3,51,055.00 6,23,429.00 26,000.00	26,000.00	9,24,267.0

NO. 2. OF AMERICA AS ON 31 MARCON 1964

pit & own natured spilement to capitalized	adjustments in General Lodger as per physical	salo	not effect	balance after regrouping and		station for e year	writton down	acquired during the year	not valuo of assata as on
parisor	varification		(4) to (6)	adjustment (3.1) & (7)	rate	amount	· value	yuu	31.3.64
(4)	(6)	(6)	(7)	(8)	(9)	(9.1)	(10)	(11)	(12)
_	_	_	_	_		_	_	_	_
_	_	_	_	65,545.90 17,170.69	_	_	65,545.00	_	65,545.90
_	=	=	_	17,170.69	=	_	17,170.60	_	17,170.00
=	=	=	=	3,53,700.75	=	_	3,53,700.75	55,497.85	4,00,198.60
_	_	_	_	-	_	_	_	_	_
_	_	_	_	96,663.71	_	_	96,663.71	_	96,603.71
							,		
_	_	_	_	9,514.51	_	_	0,514.51	_	9,514.61
_	Ξ	_	_	29,689.55	_	_	29,689.55		29,889.55
Ξ	_	_	=	10,682.00	_	=	10,6×2.00	_	10,682.00
_	_	_		25,610.00	_	_	25,610.00	_	25,610.00
_	_	_	_	61,144.01	_	_	61,144.01	_	01,144.01
Ξ	Ξ	Ξ	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	Ξ	_
_	_	_	_	_	_	_	_	_	_
_	_	_	_	4,00,000.00	_	_	4,00,000.00	_	4,00,000.00
-	_	_		18,489.17	_	_	18,489.17	9,122.15	27,611.32
_	_	_	_	1,52,918.92	-	_	1,52,918.92	_	1,52,018.92
_	_	_	_	15,000.00	_	_	15,000.00	8,612.50	21,612.50
_	_	_	_	12,58,129.21		_	12,56,120.21	71,232.60	13,27,361.71
_									
-	_	_	_	9,24,267.00	2.5%	29,108.67	9,01,160.33	4,264.50	9,05,424.83
-	_	_	_	3,51,955.00	2.5%	8,798.87	3,43,166.13	4,12,742.78	7,55,898.91
-	_	-	_	6,23,429.00	2.5%	15,585.72	6,07,843.28	5,83,229.32	11,91,072.60
-	-	-	-	-	-	-	-	-	-
_	_	_	_	_	_	_	_	_	_
_	-	_	_	_	_	_	_	_	_
				18,99,651.00		47.401.00	10 50 150 74	10,00,236.60	28,52,398.34
	_	_	_	19'AA'091'00	_	47,491.28	18.52,159.74	10,00,236.60	20,02,390.34

particulars	net value of assets as per last account	adjustment due to regrouping	value of land wrongly appreciated/ depreciated in the earlier years now adjusted	balance	different Funds wrongly treated as property of General Fund in 1962-63 now transferred	balaco as :a 1-4-53
(1)	(2)	(2.1)	(2.2)	(2.3)	(3)	(1)1
C. SHEDS & STRUCTURES: 1. Calcula: 1. Construction of sheds and structures for Stores, Workshop, Sorvants' quarters, Carpentry etc. 2. Canstruction of RTS Hostol 3. Construction of shells and structures at 265 Barrackpoor Trunk Road	2,41,217.00 93,294.00	=	=	2,41,217.00 93,294.00	38,626.32 93,294.00	2,04,001
2. Oiridih: 1. Accommodation for Office, Laboratory etc. 2. Construction of Health Contre	9,641.00 14,010.00	-14,010.00	Ξ	9,641.00	9,641.00	į
3. Delhi: 1. Partitions, Structures etc. in Delhi 2. Erection of a Nissen hut	2,608.00 2,045.00	Ξ	Ξ	2,808.00 2,045.00	Ξ	2.66 2.66
Sub-Total: (C 1.1 to C 3.2):	3,62,815.00	-14,010.00		3,48,805.00	1,39,461.32	2,09,343
D. MACHINERY & EQUIPMENT: 1. Calculating, Funching & Other Tabulation, Control of the Control o	4,14.295.03 1,78,525.01 1,47,424.55 12,223.54 6,05,728.28 638.87 13,080.00 33,891.85	+1,01,043.04 - 66,161 78 - 373.78 + 33,606.47 - 598.22 	- - - - -	4,14.295 03 2,79,568.05 51,262 77 11,819.76 6,39,332.75 40.66 13,080.00 33,891.85	=======================================	4.14.26 / 2.79.36 / 51.56 / 11.56 / 6.19.18 / 12.56 / 14.71.26 /
,		+ 01,010.13				
E. PASSENGER LIFT: P. ELECTRICAL EQUIPMENT AND INSTALLATION: 1. High Tension Electricity . 2. Internal Telephona System 3. Electrical Equipment & Fittings	74.404.00 7.234.00 3,44.061.00	_ _ _ 55,684.23	=	74.404.00 7.234.00 2,88,396.77	7.234 00	76,66 ·
Sub-Total: (F 1 to F 3):	4,25,000.00	- 55,664 23	-	3,70,034.77	7,234.00	3,62,50
G. FURNITURE & FITTINGS:	6,12,433.09	- 12,622.26	_	6,99,810.83	_	8,99,50
E. BOOKS & JOURNALS:	10,01,435 00	_	_	10,01,435.00	-	10,01.43
I. MOTOR CARS & VEHICLES:	1,77,033.04	+ 770.76	_	1,77,803.80	17,394 99	1,60,60
J. ELECTRONIC COMPUTER (HEC 2M) & OTHER TABULATING EQUIPMENT:	1,66,051.00	_	_	1,66,051.00		1,64,65.
X. LIBRARY EQUIPMENT (NCLUDING EQUORET TRANSPORT FOR THE CONTRACT OF THE CONTR	36,418.00			36,418.00		Marc
GRAND TOTAL:	77,08,276.20	+ 98,663.71	-23,408.00	77,81,472.00	5,95,412 20	71,54,669 v

No. I-Contd.

OF ASSETS AS ON 31 MARCH 1984

equipment manufactured gall & own	adjustmente in General Ledger as per	aalo	get effect	balance after regrouping		sciation for he year	written down	acquired during the	net value of nesota
earlier earlier	physical verification		of (4) to (6)	and adjustment (3.1) & (7)	rate	amount	- valus	year	81.3.84
(4)	(5)	(6)	(7)	(8)	(9)	(9.1)	(10)	(11)	(12)
=	Ξ	Ξ	=	2,04,890.68	7.5%	15,351.80	1,89,338.88	1,631.38	1,90,970.28
-	-	-	-	_	-	-	-	28,258.92	28,258.92
=	Ξ	Ξ	=	-	=	=	=	=	_
Ξ	=	=	Ξ	2,608.00 2,045.00	7.5% 7.5%	195.60 153.38	2,412.40 1,801.62	Ξ	2,412.40 1,891.62
	_	_	_	2,09,343.68	-	15,700.78	1,93,642.90	29,890.30	2,23,533.20
-1.18,343 38	- 32,971.45 + 43,736.02	-	85,371.93 43,738.02	4,99,666.96 3,23,304.07	15% 15%	74,949.89 48,495.76	4,24,717.07 2,74,808.31	1,95,896.54° 38,309 01	6,20,613.61 3,13,117 32
_	+ 10,001 68	_	10,601.68	91,864.45	15%	13,779.59	78,084.86	Ja,305 01 —	78,084.86
	+ 947.09	_	947.09	12,796.85	15%	1,910.45	10,877.40		10,877.40
- 59,169 49	+ 23,621.32 - 40.65	_	52,790.81 - 40.65	6,92,123.56	15%	1,03,318.49	6,88,305.07	1,89,988.56	7,78,293.63
=	- 10.00	=		13,080.00	16%	1,962.00	11,118.00	_	11,118.00
-	-	_	_	33,801.85	15%	5,083.80	28,808.05	2,257.50	31,065.55
-,,47,5(2-87	+ 45,894 01		1,93,406.88	16,60,727.74	_	2,50,008.98	14,10,718.70	4,26,451.61	18,43,170.37
				20,690.64	10%	2,009.10	18,021.54	_	18,621.54
				#					40.000.00
	- 13,989.12	=	-13,989.12	74,404.00 	10%	7,440.40 27,440.76	66,983.60 2,46,968.80	31,978.19	66,983.60 2,78,945.08
	- 13,989.12	 -	-13,989.12	3,48,811.65	10%	34,881.16	3,13,930.49	31,978.19	3,45,008.68
	- 15,276.64		-15,276.04	5,84,534.19	10%	58,453 . 41	5,26,080.78	1,07,194.25	6,33,275.03
	+1,34,256.00		1,34,256.00	11,35,601.00	5%	56,784 . 55	10,78,908.45	1,46,476.94	12,25,383.39
	+ 2.00	-744.49	-742:49	1,59,666.32	20%	31,932.85	1,27,733.67	31,703.00	1,59,436.67
				1,60,051.00	15%	24,907.65	1,41,143.38		1,41,143.35
_	_	_	_	36,418.00	15%	5,462.70	30,955.30	5,607.66	36,502.96
1,67,512.67	1,50,886.25	-744.49	2,97,654.63	74,83,714.43		5,27,692.24	69,56,022.19	18,50,771.05	88,06,793.24
									faatured

SCHEDULE NO. II

STATEMENT OF ASSETS ACQUIRED FOR UNTAA WORKSHOP AS ON 31 MARCE 1964

el. no.	particulars	balance as on 31-3-63	depreciation for the year	addition during the year	balance as on 31-3-64
	Construction of sheds and structures at 5 Rabindra Nath Tagore Road	1,02,517.00	7,689.00	2,65,550.49	3,50,378.40
2.	Installation of high tension electricity	86,724.00	8,672.00	_	78,052.00
3.	Machine equipment (Lathe etc.)	72,390.00	10,859.00		61,531.00
4.	Workshop equipment	63,083.00	9,462.00	_	53,621.00
_	Total	3,24,714.00	36,682.00	2,55,550.49	5,43,582.49

SCHEDULE NO. III

GENERAL FUND: AS ON 31-3-84

	particulars						amount
					Re. n.P.	Ra. nP.	Rs. nP
. 0	pening balance						1,00,94,125.9
	idd:						
۵	liscellansons receipts no ecount :	и аррисво	is to any	BOCLOF			
(1	n) Own publication				3,560.25		
	b) CMPO c) Profit in sale of Delhi	Fint			4,500.00 755.51		
Ť	•				700.01	8,815.76	
C	tock of electrical stores apitalisation of books an arrent Account:					1,227.06	
(0	a) in 1962-63				1,34.258.00		
(t	o) in 1963-64		: .	• •	1,06,360.00	2,40,618.00	
	apitalisation of gift and	own manui	actured ma	chine,		2,10,010.00	
	1) upto 1962-03				1,47,512.87		
(t	o) during 1963-64			• • •	1,95,898.54	3,43,409,41	
A	u eseoxe ni nwoda trusom.	nder Ford I	Foundation	Grant			
in	1962-63					20,838.23	
	mount receivable from						
	tine of end results do	iivered ou	r not bara	upto		12,56,000.00	
	and purchased at Barod	n in 1902-6	3 but not cl	aimed		17,988.17	
	om Govt, earlier ssets acquired during 1	002 04	of Control	A		18,90,899.46	
	nlue of land at Giridih d			UIAUV		725.00	
A	djustment as per physic	al verificati	on of assets			16,630.25	
	xpenditure for Joint P f Electronic Computers of						
	om Govt. earlier					53,963.84	38,59,913.1
							1,39,54,039.0
L	est :						
A	dvance given by Govt. i			rk but			
A	dvance given by Govt. i rongly treated as incom	e in 1902-63	3 a/c.			15,00,000.00	
A	dvance given by Govt. i	e in 1902-63	3 a/c.			18,00,000.00	
A G	dvance given by Govt. is rongly treated as income ssets of different Funds ieneral Fund:	e in 1902-65 wrongly tro hedule I	3 a/c. onted as ass	ete of	5,05,412.20	18,00,000.00	
A G	dvance given by Govt. is rongly treated as income ssets of different Funds ieneral Fund: i) Fixed assets as per se b) OYT Telephone	e in 1902-65 wrongly tro hedule I	3 a/c. onted as ass	sets of	9,575.00	15,00,000.00	
A W A G (F) (F) (F)	dvance given by Govt. it rongly treated as income issols of different Funds teneral Fund: i) Fixed assols as per see to YTT Telephone c) Stock of building mat i) Earnest money for R.	e in 1902-63 wrongly tre hedule I terials ose Villa (G	3 a/c. onted as ass	eta of	9,575.00 2,54,212.80	15,00,000.00	
A G (r)	dvance given by Govt. is rongly treated as income assets of different Funds eneral Fund: b) Fixed assets as per se b) OYT Telephone c) Stock of building mat	e in 1902-63 wrongly tre hedule I terials ose Villa (G	3 a/c. onted as ass	sets of	9,575.00		
A G (1) (1) (1)	dvance given by Govt. it rongly treated as income issols of different Funds teneral Fund: i) Fixed assols as per see to YTT Telephone c) Stock of building mat i) Earnest money for R.	e in 1902-63 wrongly tre hedule I terials oso Villa (G industry Un	anted as assisted as	sets of	9,575.00 2,54,212.80 1,000.00	15,00,000.00 8,96,419.01	
A G (f) (d) (d)	dvance given by Govt. irrongly treated as income seets of different Fund: 1) Fixed assots as per scolour Treatment Fund: 1) Fixed assots as per scolour Treatment Fund: 1) Treatment Fund of Part Treatment Fund: 2) Advance to Cottage I Traine of Innd at Barnnag inted carlier.	e in 1902-6; wrongly tre hedule I toriale ose Villa (G industry Unigere (203 B.	and and an asset of the control of t	appre-	9,575.00 2,54,212.80 1,000.00		
A G (i)	dvance given by Govt. irrongly treated as incomessots of different Funds energed Fund: 1) Fixed assots as per sco 2) OYT Telephone 2) Stock of building mat 3) Earnest money for Re 3) Advance to Cottage I (also of land at Barunag inted cardier also proceeds of De-Soto	e in 1902.6; wrongly tre chedule I corials oso Villa (G industry Un gore (203 B. Station W.	anted as assisted as assisted as assisted as assisted as assisted as assisted as a same as a sam	appre-	9,575.00 2,54,212.80 1,000.00	8,98,419.01	
A G (()) (() () () () () () () () () () ()	dvance given by Govi. rongly totated as incomo- ssets of different Funds eneral Fund:) Fixed assets as per se) O'TT Telephone ; Stock of building mail d) Earnest money for R o'Advance to Cettage I 'alue of Innd at Baranag sited carlier also proceeds of De Soto djusted against re-imbut I findia	e in 1902-6; wrongly tre hedule I terials ose Villa (G ndustry Un gore (203 B. Station W.	anted as assisted as assisted as assisted as assisted as assisted as a simulation of the assis	appre-	9,575.00 2,54,212.80 1,000.00	8,98,419.01	
A G (i)	dvance given by Gova: rongly treated as income, sasts of different Funda concern Fund: to Pirch assets as pre so 0 OYT Telephone 1) Erroret money for Ro 2) Earnet money for Ro 3) Earnet money for Ro 3) Advance to Cottage I alue of Innd at Barnang inted carlier justed against re-imbu I findia	e in 1902-6; wrongly tre hedule I corials ose Villa (C ndustry Un gore (203 B Station W resement cle aditure for	3 a/c. pated as assisted as assisted. T. Road) a agon (in 19simod from 1961-62 in	appre- 60.61) Covt.	9,575.00 2,54,212.80 1,000.00	8,86,419.01 24,193.00 2,500.00	
A G (I)	dvance given by Gova: rongly treated as income seate of different Funda control Fund: First bett as per so J. O'YT Telephone 1. Stock of huilding mad 1. Earnest money for R 1) Advance to Cottage I "alwo of land at Barnang inted carlier justed against re-imbu I India Balance of Gaxess exper roject sectors foregone prevention for 1903-04	e in 1902-6; wrongly tre thedule I torials ose Villa (G andustry Un gore (203 B Station W creement cla additure for	anted as assisted as assisted as assisted as assisted as assisted as a simulation of the assis	appre-	9,575.00 2,54,212.80 1,000.00	8,96,419.01 24,193.00	
A GO (I)	dvance given by Govr.; rongly treated as income, sasts of different Funda eneral Fund; in Fixed assots as per as 0 OYT Telephone; 1) Stock of building mat 1) Earnest most 1) Earnest most 2) Advance to Cottage 1 (a) Advance to Cottage 1 (a) Advance to Cottage 1 (a) the Cottage 1 (a) Telephone 1 (a) Telephone 1 (a) Telephone 1 (a) Telephone 1 (b) Advance to Cottage 1 (a) Telephone 1 (a) Telephone 1 (b) Telephone 1 (c) Telepho	e in 1902-6; wrongly tre- chedule I torinle cose Villa (C ndustry Un- gore (203 B. Station W. ursement cla- diture for	iridih) iite T. Road) a agon (in 19 aimod from	appre- 60-61) Covt.	0,675.00 2,54,212.80 1,000.00 30,219.01	8,86,419.01 24,193.00 2,500.00	
A GO (I)	dvance given by Gov.; rongly treated as income, seets of different Funda control Fund; to JOYT Telephone; JOYT Telephone; JE Carrest money for Re. JE Carrest money for Re. JA dvance to Cottage I also proceeds of De. Seet inted carlier diputed against re-imbus I findia Balance of Goxcess exper roject sectors foregone prevention for 1903-04 a) Fixed restet as appresent JOYT Telephone	e in 1902-6; wrongly tre- chedule I terials oso Villa (G ndustry Un gore (203 B. Station W resement ele- aditure for :	a a/c. parted as assessing the second of th	appre-	0,678.00 2,54,212.80 1,000.00 30,219.01	8,86,419.01 24,193.00 2,500.00	
2 A G (1) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	dvance given by Govr.; rongly treated as income, sasts of different Funda eneral Fund; in Fixed assots as per as 0 OYT Telephone; 1) Stock of building mat 1) Earnest most 1) Earnest most 2) Advance to Cottage 1 (a) Advance to Cottage 1 (a) Advance to Cottage 1 (a) the Cottage 1 (a) Telephone 1 (a) Telephone 1 (a) Telephone 1 (a) Telephone 1 (b) Advance to Cottage 1 (a) Telephone 1 (a) Telephone 1 (b) Telephone 1 (c) Telepho	e in 1902-6; wrongly tre- chedule I torinle cose Villa (C ndustry Un- gore (203 B. Station W. ursement cla- diture for	iridih) iite T. Road) a agon (in 19 aimod from	appre- 60-61) Covt.	0,675.00 2,54,212.80 1,000.00 30,219.01	8,86,419.01 24,193.00 2,500.00 396.00	
2 A G (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	dvance given by Gova: rongly treated as income, sasts of different Funda centeral Fund: 1) Fixed assots as por as 0) O'TT Telephone: 2) Stock of building mat 1) Earnest most 2) Earnest most 2) Advance to Cottago I 2) Advance to Cottago I (alue of Ind at Baranag inited against re-limbu (i) parted against re-limbu (ii) parted against re-limbu (ii) parted against re-limbu (iii) parted (iii)	e in 1902-6; wrongly tre chedule I terials ose Villa (G ndustry Un gore (203 B) Station W rsement cle aditure for : : : : : : : : : : : : : : : : : : :	and a see see see see see see see see see s	appre- 60-81) Govt.	5,27,692.24 764.15 704.16 704.16 704.16 704.15 80.082.00	8,86,419.01 24,193.00 2,500.00	32,92,637. 2

SCHEDULE NO. IV STATEMENT OF OUTSTANDING LIABILITIES PAYABLE AS ON 31 MARCH 1964

srl. no.	particulars			amount Rs. nP.
ı.	For goods & services			9,72,002.07
2.	For employer's share of con- General Provident Fund	tribution	to ISI	4,64,816.42
3.	For Leave Salary Fund			6,50,742.98
4.	For Gratuity Fund			11,11,742.93
٥.	Undisbursed salary & wages			21,932.67
	Total			32,21,237.07

CAPITAL EXPENDITURE ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31 MARCH, 1984

Roceipts	Re. nP.	Ra.	nΡ.	Payments	Rs. nP.	Rs. nP.
1. Opening balance :				Capital Expenditure during the year :		
				1. Land and Land Dovelopment:		
.1 Cosh in hand	1,838.87			.1 Balance of cost of land at Madras .2 Balance of cost of land at Baroda	5,612.50 9,122.15	
.2 Stock of building materials As per last account	5,10,661.33	5,12,50	0.20	3 Dovelopment of land at 205 Barrackpore Trunk Road	55,497.85	71,232.50
2. Orants received from Government of India :				Buildings: Institute's main building at 203 Burnekpore Trunk Road	4.264.50	
.I For current year's capital				.2 Construction of buildings at 203	4,204.30	
oxpenditure	17,60,000.00			Barrackpore Trunk Road 3 Construction of buildings at 205	4,12,742.78	
.2 For arrear : 202 B.T.Road	70,000.00	18,20,00	00.00	Barrackpore Trunk Road	5,83,229.32	10,00,238.60
3. Recovery of Capital outlay		44,58	32.85	3. Shods & Structures: 1. Shods and structures at 203 Burrarkpore Trunk Road 2. Sheds and structures at 205 Burrarkpore Trunk Road	1,631.38	29,890.30
4. Loan received from Current Expenditure Account		1,00.00	00.00	4. Machinery & Equipment: 1. Office Machinery & Equipment 2. Laboratory Equipment 3. Electronic Laboratory & Work- shop Equipment	38,309.01 70,355.34 1,13,633.22	
				.4 Construction Equipment	2,257.50	2,30,555.07
				Electrical Equipment Furniture & Fittings Hooks & Journals Motor Cars & Vehicles Library Equipment O Y T Telephone Joint Project for the construction of Electronic Computers and		31,978.19 1,07,104.25 40,110.94 31,703.00 5,607.60 2,060.00
				Accessories		2,53,530.49
				13. Exponditure for repairs and rene- vations etc., at 202 Barrackpore Trunk Road		10,424.07
				14. Recoverable Capital Expenditure		
				(Crop-cutting apparatus) 15. Earnest money for Takdah Plan-		4,758.75
				ters' Club		6,302.00
				Closing balance: Stock of building-materials Cash in band	. 8,57,382.52 . 7,518.25	6,64,900.77
		24,77,0	083.05			24,77,083.05

We have examined the Recipts & Payments Account in respect of the Capital Expenditure Account of the Indian Statistical Institute for the year ended 31 March, 1064 with the books and records maintained by the Institute and have found it to be in accordance therewish.

Calcutta, 17th August, 1964. LOVELOCK & LEWES

Chartered Accountants

VISITING PROFESSORS AND FELLOWS FUND

BALANCE SHERT AS AT 31 MARCE, 1964

Funds & Liabilities	Rs	ω P .	Property & Assets	Ra. DP.
Fund: As per last account	11	3.13	Cash in hand	113.13
	11	3.13		113.13
	_	_	in term	s of our report of even date
				LOVELOCK & LEWES
Calcutta 17th August, 1984.				Chartered Accountants
	INCOME & EXPENDITURE	Account for	r the year ended 31 Marci	п 1904
Expenditure	R ₄	nP.	Income	Rs. nP.
		NI		ра
	_	พอ		
			In	terms of our report of even date

Celcutta 17th August, 1984. LOVELOCE & LEWES

Chartered Accountants

LEAVE SALARY FUND

BALANCE SHEET AS AT 31 MARCH 1984

Funds & Lisbilities	Ra. n.P.	Ra. n.P.	Property & Assets	Ra	αP.	Ra aP.
Fund:			Current Assets:			
As per last account (including Rr. 6,41,991.43 due from the Institute on account of em- ployer's contribution for the years 1959-60 to 1961-62)	6,52,646.26		Amount receivable from Institute on account employer's contribution f the year 1963-64	٥٢		6,50,742.08
4dd: Employer's contribu- tion for 1963-64	6,50,742.98		Coah in hand			3,182.78
Less: Leave salary paid during the year	13,03,389.24 6,49,463.48	6,53,925.78				
		0,53,925.78				6,53,925.76

In terms of our report of even date

Calcutta, Lovelocz & Lewes
17th August, 1964. Chartered Accountants

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 MARCH 1904

Expenditure	Ra. aP.	Income	Rs. aP.
	БИ		GN
	Nil		Nil

In terms of our report of even date

LOVELOCE & LEWES

Chartered Accountants

Calcutta, 17th August, 1984.

GRATUITY FUND

BALANCE SHEET AS AT 31 MARCH 1964

Funda & Liabilities	Re.	۵P.	Ra.	n₽.	Proporty & Assots	Re.	αP.	Rs.	ąΡ.	Ra.	nP.
Fund:					Current Assets:						
As per last account (including Rs. 8,32,853.08 due from the Institute					Temporary advances made to:						
on account of employer's contribution for the years 1959-60 to 1962-63)	16,10,58	55.32			(a) Capital Expenditure Account as per last account			4,57,0	00.00		
Add: Employer's contri- bution for 1963-64	2,78,8	89.86			(b) Current Expenditure Account as per last account	3,18,000	0.00				
	18,89,4	45.17			Less: rorlised during the year	18,000	0.00	3,00,0	00.00	7,57,0	00.00
Less: Gratuity paid dur- ing the year	17,0	73.20	18,71,4	71.91	Amount receivable from the Institute on neceunt of employer's contribu- tion:						
					ii) year 1960-61 iii) year 1961-62	1,48,164 1,73,339 2,50,270 2,61,078	0.05 0.44	8,32,8	53.08		
					Add: for the year 1963-64					11,11,7	12 03
					Cash in hand			2,70,0			28.98
					Cash in hand						
			18,71,4	71.91						18,71,4	71.91

In terms of our report of oven date

LOVELOCE & LEWES

Calcutta, 17th August, 1964.

Chartered Accountants

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 MARCH 1964

Exponditure	Re. nP.	Income	Ra. aP
	NII		N.II
	Nil		Nil

In terms of our report of even date

LOVELOCE & LEWES
Chartered Accountants

Calcutta, 17th August, 1984.

DEVELOPMENT FUND NO. I

BALANCE SEEST AS AT 31 MARCH, 1984

Funds & Liabilities	Ra.	nP.	Property & Assets		Ra.	nP.	Ra.	nP.
Fund:		(Current Assots:					
As per last account	1,19,521	.94	Temporary advances may	do sa				
			i) Capital Expenditure Ac	count	81,00	0.00		
			ii) Current Expenditure Ac	ا فمعاده	27,00	0.00	1,08,00	0.00
			Cash in hand				11,52	1.94
	1,19,521	.94					1,19,52	1.94

In terms of our report of even date

Calcutta, 17th August, 1984. Lovelock & Lewes

Chartered Accountants

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 MARCH, 1964

Expenditure	Rs. nP.	Income	Rs. nP.
	Nii		Nu
	Nü Nü		Nil

In terms of our report of even date

Calcutta, 17th August, 1964. Lovelook & Lewes

Charlered Accountants

DEVELOPMENT FUND NO. II

BALANCE SERET AS AT 31 MARCH 1984

	DALLARION DESSEY	AS AT DI BEARON 1904			
Funds & Liabilities	Rs. nP,	Property & Assets		Ra. nP.	Ra. nP.
1. Fund: As per last account per schodule 'A' annexed	10,04,873.90	 Fixed Assets: Land and Land development As per last account per schedule 'A' annexed Add : during the year 	::	2,34,623.16 33,042.25	2,67,665.41
2. Grant received during the the year 3. Excess of income over expenditure	2,50,000.00 20,178.63		the	84,480.62	
		year @ 2.5%		82,388.98	
		Add: during the year	••	58,841.10	1,39,210.08
		.3 Sheds & Structures: As per last account per schedule 'A' annexed Less: depreciation during yoar @ 7.5%	the	1,39,461.32 10,459.32	
		Add: during the year		1,29,002.00 47,214.91	1,76,216.91
		.4 Electrical equipment and insta Internal telephone system As per last account	llati		
		per schedule 'A' annexed Less: depreciation @ 10%	::	7,234.00 723.40	6,510.60
		.5 Motor Cars & Vehicles: As per last account per schedule 'A' annoxed Less: depreciation @ 20%		17,394.99 3,479.00	
		Capitalised rental of telephi under O.Y.T. Scheme: As per last account per schedule 'A' annexed Less' depreciation	onea		-
		2. Investment: G.P. Notes at (face value Rs. 60,000/-). As per alast account per schedule /\(^1\) annaxed (Current Assets: 1. Stock of building materials 2. Advance & part payment for Rose ville as per least account per schedule /\(^1\) annaxed 1000 Less: transferred to Land & Land Development du.		2,47,451.42	45,533.75
		ring the year 1000	00.0	lia	-
		3 Temporary advances to: a) Capital Expenditure Acc as per last account per schodule 'A' annexed b) Current Expenditure Acc		2,09,000.0)
		during the year		1,55,000.00	6,11,451.43
		4 Cash in hand			5,073.36
	12,75,052.53				12,75,052.53
		In	torr	ne of our rapo	rt of even date

In terms of our report of even date

LOVELOOK & LEWES

Chartered Accountants

DEVELOPMENT FUND NO. II Income and Expenditure Account for the year ended 31 March 1964

Expenditure	Rs. nP.	Ra. n.P.	Income	Rs. n.P.
To Excess of income over expenditure		87,651.99	By Rent	36,155.90
exponditure		01,001.56	,, interest on G.P. Notes	1,496.00
		37,651.99		37,651.99
To Depreciation:			By balance of income over expend ture	ii- 37,651.99
a) On Buildings	2,111.64		2010	
b) "Sheds & structures	10,459.32			
c) " Motor Car	3,479.00			
d) " O.Y.T. telephone	700.00			
e) " Internal telephone	723.40	17,473.36		
To not excess of income over expenditure		20,178.63		
expension				
		37,651.99		37,651.99

In terms of our report of even date

Calcutta, Loveloct & Lewes
17th August, 1964. Chartered Accountants

SCHEDULE NO. A

STATEMENT OF ASSETS OF DEVELOPMENT FUND No. II as on 31-3-63

	particulara			value as per accounts upto 31-3-63	regrouping	depreciation charged upto 31-3-63	value of nasota as on 31-3-6
	(1)			(2)	(3)	(4)	(5)
,	Land:			-			
.1	Bidyayatan Sarani			50,000.00	_	_	50,000.0
.2	169 G. L. Tugore Road			1,29,855.00	-26,000.00	_	1,03,855.0
.3	Rose Villa			1,17,689.87	-44,366.90	_	73,322.9
.4	Birnja Kutir			7,445.19		_	7,445.1
.5	Health Home			103.72	- 103.72		
	Sub-total : I			3,06,093.78	-70,470.62	-	2,34,623.
2.	Buildings :						
.1	169 G. L. Tagore Road			-	+26,000.00	_	26,000
.2	Roso Villa			_	+44,368.90	_	14,366.
.3	Health Home	••	• •		+14,113.72	_	14,113.
	Sub-total : 2			_	+84,480.62	_	84,480
3.	Sheds & Structures:						
.1	Students Hostol at 206 B. T. Ro	ad		1,36,335.52	_	-43,041.52	93,294.
.2	Post Office at 204 B. T. Road			1,383.98	_	- 583.96	800.
.3				12,777.50	_	— 3,136.50	0.641.
.4	169 G. L. Tagore Road			35,726.32			35,726.
.5	Health Home		••	14,030.09	-14,010.00	- 20.09	_
	Sub-total : 3			2,00,253.39	-14,010.00	-46,782.07	1,39,461
4.	O.Y.T. Telephone			14,100.00	_	- 4,525.00	9,575.
5.	Internal Telephone system			7,914.23	_	— 680.23	7,234
6.	Motor Cars (2 Nos.)			27,179.68	_	- 9,784.69	17,394
	Total : 1-6			5,54,541.08	_	-61,771.99	4,92,769.
7.	Investment in G. P. Notes (face value Rs. 50,000)-) at cost			45,533.75	_	_	45,633
8.	Earnest money for Rose Villa			1,000.00	-	-	1,000
9.	Closing balance:						
.1	Stock of building materials			, 2,54,212.80	_	_	2,54,212.
.2	Loun to Capital Expenditure			2,09,000.00	_	_	2,09,000.
.3	Cash in hand	••	••	2,358.26			2,358
	Total: 7-9			5,12,104.81	_	_	5,12,104.
	Total: 1-9			10,06,645.89	_	-61,771.99	10,04,873

SUPERVISION FEE FUND

BALANCE SHEET AS AT 31 MARCH, 1964

Funds & Liabilities	Re. nP.	Property & Assets	Re. nP.	Re. nP. Re. nP.
Fund:		Assets:		
As per last scoount	2,16,304.87	Land: As per last account		1,12,218.11
		Loans & edvances: Temporary advances made as per last account to: a) Current Expenditure Account b) ISI Small Indus-		60,000.00
		trice Exporimental Units	36,219.01	
		Less: Amount recovered during the year	18,560.76	17,658.25 77,658.25
		Cash in hand		26,428.51
-	2,16,304.87			2,16,304.87

In terms of our report of even date

LOVELOCE & LEWES

Calcutta, 17th August, 1964.

Chartered Accountants

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 MARCH, 1964

Expenditure	Re. nP.	Income	Rs. nP.
	Nil		ии
	Nil		

In terms of our report of even date

LOVELOGE & LEWES

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Chartered Accountants

Calcutta, 17th August, 1984.

ISI GENERAL PROVIDENT

				101 01011	AL THOVIDENT
					BALANCE SHEET
Funds and Liabilities			Re. nP.	Rs. nP.	Rs. nP.
Members' own subscriptions:					
As per last account				21,67,781.77	
Add: during the year		••		4,64,816.42	
				22 22 220 12	
Less : refund during the year				26,32,598.19 35,859.55	25,96,738.64
Employer's contribution :					
As per last account				21.67.781.77	
Add: during the year				4,64,816.42	
	•••				
				26,32,598.19	
Less: i) refund during the year		• •	23,965.19		
ii) amount forfeited		**	11,894.36	35,859.55	25,96,738.64
Members' voluntary subscriptions:				1 40 001 00	
As per last account	• •	• •		1,42,801.87	
Add: during the year	• •			28,882.89	
				1,71,684.76	
Tasa a meliusal duning the mean				24,847.51	1,48,837.25
Less refund during the year	••	••		24,047.01	1,40,007.20
Interest payable :					
 a) on members' own subscriptions: 					
As per last account		••		3,46,014.93	
Add: during the year	• •	••		1,02,336.86	
Processor Andrea Abraham				4,48,351.79	4,44,474.89
Less: paid during the year	••	••		3,876.90	9,99,979.88
b) on Employer's contribution :					
As per last account				3,01,855.86	
Add: during the year				92,447.15	
				,	
				3,94,303.01	
Less: i) paid during the year			2,812.55		
ii) amount forfeited		••	386.49	3,199.04	3,91,103.97
o) on members' voluntary subscription				10.000 #0	
As per last account	• •	••		19,022.58	
Add: during the year	••	••		5,632.23	
				24,654.81	
Less : paid during the year				3,548.97	21,105.84
					,,,,,,,,,,
Surplus including forfeiture					
As per last account				61,402.40	
Add : i) excess of income over				,	
expenditure for 1963-196	4		81,304.15		
ii) forfeiture for the year			12,280.85	93,585.00	154,987.40
					40 51 004 11
					63,51,986.63

^{*} Since invested in 3% Conversion Loan of 1946 of the face value of Rs. 9,00,000/- cost price Rs. 5,71,140/-/-

Calcutta, 17th August, 1964.

FUND

As at 81 March, 1964

Property and Assets			Ra. nP.	Rs. nP.	Ra. nP.
Investments: At Cost a) G.P. Notes at cost as per las 3% conversion loan of 1948 (face value) 3% ist Development loan of 19; Rs. 13,05,000; (face value) 4½% loan of 1935 for Rs. 13,00,0	for Rs. 9,65 0-75 for	::	7,29,629.80 11,45,154.69 13,00,000.00	31,74,784.29	
b) National Savings Certificates for	Ra. 1,00,000/-			1,00,000.00	32,74,784.29
Loan to members outstanding: As per last account Add: loan paid during the year	::	::		5.66,967.50 9,18,244.33	
Less: loan realised during the year				14,85,211.83 8,20,984.75	6,64,227.08
Current Assets: Interest accrued on G.P. Notes				14,438.75	
Amount receivable from Public Debt of income tax wrongly deducted G.P. Notes				8,774.70	
Amount due from the Institute: Employer's contribution for 1963-64				4,64,816.42	
Temporary advance to Current Expen As per last account Add: during the year	diture Accoun	t: ::	1,00,000.00 6,60,000.00		
Less: repaid during the year			7,50,000.00 1,00,000.00	6,50,000.00	
Cash and Bank balances: At bank In band	::	::		12,58,028,86° 16,916.53	24,12,975.26

63,51,986.63

We have examined the Balance Sheet of the Indian Statistical Institute General Provident Fund as at 31st March, 1984 and the Income and Expenditure Account for the year ended on that date and found them to be in accordance therewith. The Investments and the Bank balance are in the name of the Indian Statistical Institute.

LOVELOOK & LEWIS

Chartered Accountants

ISI GENERAL PROVIDENT FUND

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 MARCH, 1964

Expenditure	Ra. nP.	Rs. n.P.	Income	Ra. n.P. R.	a. nP.
To Interest:			By Interest:		
i) on members' own subscription ii) on Employer's contribution iii) on emmbers' voluntary subscription Excess of income over expenditure	1,02,336.88 92,447.16 5,632.23	2,00,418.24 81,304.15	i) on G.P. Notee (including Rs. 14,432.75 for the year 1982-63) ii) on Employer's contribution for 1982-63 (repaid on 31 March 1984) iii) overriding interest for utilizing G.P. Notes by the Institute iv) on loan given to the Institute	1,40,743.75 21,758.55 31,270.25 40,000.00 47,949.84 2,81	.,720.39
		2,81,720.39		2,81	1,720.39

In terms of our report of even date.

Calcutta, 17th August, 1984. Loveloge & Lewes

Ohartered Accountants