Twelfth Annual Report: 1943-44

We are writing this report in the midst of contend asony action in North-East India. The year under review has been one of unprecedented stress and straig in Bengal. The dountry passed through an acute food-crisis of a kind newer known before. In consequences there has been rapidly growing demand for statistics in every direction. Although we were obliged to expand dur staff at a rapid rate, the growth was not allogather healthy as there was a great searcity of trained statisfied workers. The only thing we could do was to train up as many more as we could in the course of the work-titled!

During the year under review the total number of worker-months in amployment on the statistical electric and a reverge of 206 workers per month. The statistican-work itself had to be carried out at three places, in Calculate, at Bangangere in he subsurbe of Calculate, and so Unifish Sitts over 200 miles away from Calculate. The statistical staff was divided roughly in equal proportions in the three centres at the beginning, but, owing to fact of accommodation in the Presidency College in Calculate, the number of workers at both Barnangere and Gridsh had to be steadily screened on that early in 1844 it was sensiting like 150 or 160 at each of those two pieces. It is only because of the unsparing loyalty and onthusiasm of the old guards of the Statistical Laboratory that it has been at all possible to carry on the work at such high pressure.

CROP SURVEY WORK IN BENGAL

The most notable program in the year under review was arhieved in the sample survey of crops. It would be remembered that work was started on a small seals with a total exponditure of about Rs. 7,000 on an exploratory array of the jute crop in Boogs in 1897. This was the beginning of Revy-pair scheme for the improvement of jute startains which was tinuseed jointly by the Indian Credent Jute Committee and the Coverment of Bongal. The sampling technique, developed in the course of a gradually expanding series of surveys culminating in the foll scale previously work of [91], which demonstrated bywood disjuste the possibility of accuring by this method, a final ortunate of jute accesses with a margin of error of only two or through error that a cost of one-fifteenthe or one-twentieth of that of a complete remneration. A governal account of the inveryor scheme with discussion of theoretical foundations was given in a me out prepared by the Hon. Screetary in 1942 which is being published in the Philosophical Transactions of the Royal Society of London.

The Hun. Secretary had been pressing from the very beginning of the five-year scheme in 1937 for the extension of the method to cover paddy and other important crops in Bengal. Each year front 1938 to 1942 he repeated his efforts but without success. In 1942 the Indian Central Jute Committee had expressed their complete actisfaction with the method of the sample survey and had recommended its continuance by Covernment in future. The Government of Bangal bowerer decided at first to discontinuo the work but subsequently revoked their decision and naked the Hon. Socretary at the end of March 1912 to proceed with the Jute survey. By this time a good portion of Burms had been occupied by the Japanese, and the supply of rice from that country had been cut off. Apprehending a serious deterforation in the fuel situation (not because of the physical volume of the import which was small but because of the possible effect on prices) the Hon. Secretary submitted a definite volume to the Covernment of India at the end of March 1942 for extending the sample survey to cover the packly crop in Bengal. In the course of the next few months he also discussed the question with a large number of officials in Bengal but all his offerts failed completely. In the absence of reliable statistics both the provincial and the Central Governmonte were left entirely in the dark regarding the supply position of rice at the end of 1942. This made It impossible for Covernment to pursue a consistent food policy on any objective basis. The weather of the statistical position was thus an important factor in bringing about the deplocable food crisis in Benzul in 1943. The Hon. Secretary has given a general account of the position in a paper presented before a symposium organized by the National Institute of Sounces of India held in Calcutta at the end of September 1913 which has been already printed in their Proceedings Vol. X. No. 1 (1944).

Early in 1943 bit Hen. Secretary again submitted a solome to the Government of Bengal for a sample survey of all important crops in Bengal. Saletion was given to that portion of the acheme which related to the juide crop and preparatory work ups neared at the said of February 1942. On the basis of informal discussions the Hon. Secretary also proceeded with the preparatory work for the survey of pendly which bowever had to be discontinued 4th ten middle of June 1941 under instructions from the Secretary of the Bengal Agricultural Department as if was not considered advisable by Government to proceed with the scheme. In August 1943 the Hon bit Mr. H. S. Suhrswardy, Minister in charge of the Department of Civil Supplies, decided however to take up too survey from his own Departments and issued orders to pre-oad with it. In this way we got the opportunity for the first time in 1943 to undertake a comprehensive survey of the paddy crowing Board covering board 17000 exquare miles.

During of the Survey: Work in 1942 had to be carried out under great difficulties in consequence of which the quality of the field work-had deteriorated somewhat. Conditions in the country in 1943 centimude to be, if anything, even more-difficult on account of the soute food crisis. Many of the field staff were raw recruits and had no previous experience of this kind of work. We, therefore, decided to strengthee the statistical control by seening duplicate sommeration of about one-sixth of the grids. In order to do this the unit-stage method had to be given up. Adjoining poles achience was estational from all over the province. Within each selected police station a certain number of sheets of maps were selected to transform; and within each selected police station a certain number of sheets of maps were selected transform; and within each selected police station a certain number of sheets of maps were selected to the police station as a match or the province. Within each selected police station a certain number of sheets of maps were selected to the police stations from all over the province. Such as a match to the province of grids are closed to use one uniform size of grid, amoney, 2.55 acre for the whole province; and the total number of such grids actually sommywated was about 550 about.

Field Organization: Eight training earnes were operated in February 1943 and about 225 workers of different ranks were given field training. The total field staff numbering 336 was organized early in April and the area survey of jute and sus paddy was stated in the Seat Bengel districts by the mil tilt of May 1943 and was extended to other districts in the course of a few wroks. The area survey was completed by the end of August but crop cutting work on jute and sus paddy continued till the middle of September. The area survey of Aman paddy began early in October and was finished by December 1943: crop cutting work started by the middle of November and continued till January 1944.

Precision of Batimata: The area under Aman pathly based on the sample natives was found to be in large excess of the official figure of 170 lakhs of acres. The field records were threefver carefully scrutiained. Although there was some evidence of the field work not having been done quite honestly in certain areas, as far as we could judge, these defects were not sufficient to explain the large difference. In this situation we made a careful comparison of the acreege under Aman paddy as given in Settlement Reports with the contemporaneous official forecasts and found that during the period of 41 years from 4900 to 1941 the official estimates were on an average 24 percent below the corresponding Settlement figures. In the light of this comparison the sample estimate was quite plausible.

Crop-cutting work in the Jute-Aus season could not be made fully representative of the different regions. In the Aman season work was done at 120 centres in 26 districts. The margin of error (at odds of 1 to 20) of the estimated total production of rice (not in hust) in the rew of aman paddy was of the order of 7 or 8 per cants. Such a large margin of error is of course unsatisfactory, but must be attributed mainty to the unrealiability of the primary material especially in crop cutting work. Bere difficultion of impection and checking are very groat and everything depends on the honesty of the investigation. Unfortunately, in 1943, we were obliged to work with 338 new recruits (or 61% per crit of 1 112 field staff of 476 most) who had to previous expressions of the work and about whom we did not know anything. It is not surprising, therefore, that certain portions of the material were found to be unreliable. No remedy is possible unless and until the Government of Bangal adopt the policy of briking up a more parmanent. Laff of investigators.

BENGAL CROP SURVEY : 1944-45

A soltens for a sample survey of Jute, Aus and Aman packly in Bengal in 1944-45 was approved by the Coverament of Bangoi carly in 1944 and a consolidated block grant of Rs 4,0,0000 has been caracinosed for this purpose. In order to improve the officioney certain modifications have been introduced in the

ANNUAL REPORT FOR 1943-44

design of the survey. The whole province has been divided into some-rolls of practically equal size of 64 expare miner(smiles: equare parallel to the latitude and longitudh lines) and suvestage sampling techniques is being used on the basis of sub-rolls of size one square mine_gich. The preparatory work is progressing amouthly at the time of writing this report. The Covernment of Bengal have placed at the disposal of the finitions the part-time services of Mr.N. C. Chakarawati. D.C.2/(Addl. Aast. Serviary, Revenue Departments as Separatessheads of Statistical Surveys: and the FridBPremit he being solviery supervised by him.

CROP SURVEY OF BIRLS

At the request of the Oorenmans of Bhar the Bon. Secretary west to Patas on the 16th November 1943 and discussed the possibility of organizing a sample survey of creps in the province with R. E. Mr. R. P. Mucis, Covarsor of Bhar, and other officials. A five-year scheme at an estimated cost of twentyfive likths of rupses was submitted on the 16th November and the main proposals were accepted in principle by the Oovernment within a few days. This visualized a series of gradually supposing surveys beginning from the robi means of 1943-44 and reaching a full scale provincial surveys in the aplant (witter) season of 1943.

48. In this scheme the field work would be done under the direct central of the Government of Bhar for which a new poor of whole time Superintendent of Battaintical Surveys was created in December 1943 and was filled by a senior and experienced Deputy Collector, Rai Bahadur S. P. Sinha, in Describer 1943. The Indian Statistical Institute would remain responsible for the statistical work during the first five vertex, has would be filled.

The preparatory work for the rebi meson was started in Calcutta and Giridih in December 1912. The first design, which took a good deal of time and labour to prepare had to be abandoned owing to the data is received village maps from different districts. At the end of December 1943 the programme was revixed; it was decided to take up the exploratory work in the two districts of Monghyr and Shahabed; and a new daining was got ready for this purpose and the preparatory work was pushed on with all possible severed at Orifdih.

Arragements were made to send a staff of 75 feld workers from Bengal on loan to Bihar and 166 men were recruited locality for the work. The field survey started on the 12th February and was alosed on the 18th April 1944. Two special camps were opened at Biharaguaj in Shababad district and Cogni an Monghy district, and a number of trained statisticians were posted to these two places for special studies. The Hony, Secretary inspected the work at Biharaguay in the 25th and 26th March 1944 and a conference of statistical and field workers was arranged those during his visit.

The field survey in the redi season was organized with such success that it was decided to do the work on the full provincial scale beginning from the next blacks' (saturan) season. This means a stepping up of the programme by about 16 months and would naturally lavelve a very heavy pressure of work in the ones future. Properatory work has been already started for the blacks' (saturan) season of 1944-15, and it is boped that the field survey for the early crop of sacksi (mane) would be started in the first week of May, and of the other remains cross of the season in 1947.

A block grant of about Ra. 25,000 was received from the Government of Bihar up to 31m March, 1944, and a budget of Ra. 2,48,000 has been submitted for the statistical portion of the work in 1944-45. Bihar Government rules sanctime! a rontribution of Ra. 15,000 per year with offest from 15th November, 1943, in lies of the services as Situistical Artiviser of Prof. P. C. Mahakanobis who had expressed a desire that such a contribution should be made isolated of paying bin any ronucevation.

BURDWAN-HOOGELY-HOWHAR IRRIGATION SCHEME

This is the aixth year of the scheme of crop-cutting work in this area. In 1933-39 the individual plots of land in this region were classified in terms of certain standard soil classes, and the object of the crop cutting scheme is to assess and grade the different classes of soil in terms of fertility as measured by the rate of yield of gaddy. During the first four years the whole of the respectiving work was done under the direct control of Owermann. In 1944 the work was done for the first time under our technical guidances and in 1943 crop cutting material was collected along with similar work done in the Bengal Crop Surgey Sciemes. A comparison of the material collected in 1942 with those collected in earlier years has ervedell gaining discrepancies. It is now proposed to make a detailed scrutiny of the primary data with a view to ascertaining whether the material collected in earlier years is sufficiently reliable to be included in the analysis or whether it will have to be rejected allocother.

OTHER PROJECTS AND SPECIAL ENQUIRIES

Besides the crop-area and yield estimation surveys described above, work was also done on other projects and special enquiries. The more effections among these are mentioned below.

Repimed rurrey of Berre Pasts of Waymana 1840-41: The remaining portion of reduction of the primary material and properation of was findly tables included in the scheme of scalyris approved by the Imporial Conuni of Agricultural Reseases, was completed during the current financial year. Mose of the computational work for this purpose lives conclusted at Giridib. The report for Gurdasyur region (Ponjab) was submitted to the LC.A.B by the middle of November 1942. The remaining regional reports, namely those for Musaffarngfer (United Provinces), Gorakhpur (United Provinces), Deca (Bengal). Cuttack (Orisas), Oudlysattam (Madfas), Padogaon (Bombay), Sepaya (Bihar) and Pusa (Bihar) were completed in quick succession within the next two months. Each report included more than 200 pages of tables dealing with the incidence of dismages to Suguranas from different kinds of Borre Pesta.

U. P. dusterposeatric Measurements: All calculations ledding to the mean values, standard deviations and coefficients of variations with the standard errors of those constants were completed for bildreen characters and five indices for each of 20 castes from the United Provinces and were sent in November 1943, to Dr. D. N. Majumdar of the Lucknow University who had taken the measurements at the time of the 1941 Content. All the correlation coefficients have been determined and advanced work is now being carried on at Calculation including the use of the D^{*} statistical on the Content including the use of the D^{*} statistical.

Biver Bussersh 1 & greaf of Rs. 5000 per year has been ancrined by the River Resperch Institute of the Government of Bengal for statistical analysis of data relating to river physics, rainfall and shoots in Bengal. Work was started in November 1943 on the adalysis of gauge readings of the river Damodar a severe flood in which during the monason season had completely interrupted communications in the East Indian Railway near Burdwan for more shan-two months. A preliminary report on maximum shoots near Burdwan was arbeintised in Documber, 1443.

Blood Pressure Survey 1935-36: Analysis of the large body of material collected during a nurvey started in 1935-36 in Bengal was taken up this year and the work is now nearing completion.

Srimizion Rural Survey: Work on the analysis of a large volume of material relating to rural families collected by the Viavabharati Institute of Rural Reconstruction at Srimitetan was taken up ab Giridih.

THEORETICAL RESEARCHES

Theoretical work was continued on the following main topics: (1) Design of Large Scale Sample Surveys; (2) Design and Analysis of Exportments; (3) Multivariate Distributions; and (4) Construction of Numerical Tables. A list of papers published and reports submitted in the year under review by the workers associated with the Institute is given in Appendix I below.

Large Scale Sample Surveys: This topic is receiving increasing attention from statisticians and Government Departments, as it provides an efficient yet cheep alternative method to that of surveying by complete souncestion. A paper embodying the findings of the theoretical and exportmental researches on this topic written by P. C. Mahalacobis will be abortly published in the Philosophical Transactions of the Royal Society. Appear on multi-stage sampling was communicated to the 31st Semion of the Inclain Science Congress (Dublis 1984.

Design and Analysis of Experiments: Further program has been achieved in the mathamatical bloory of the design and analysis of experiments by R. C. Boos, K. R. Nair, C. R. Rao and B. K. Nandi. A general method of appreach for recovering the inter and inter-block informations from the results of a questral incomplete block design and the necessary tests of significance have been discovered. Confounded behavioral designs are in block of s plots $\{k',m\}$ have been constructed. Analysis of co-variance has been extended to the case of a general incomplete block design. Nor types of-designs in quasi-Latta squares with efficiencies higher than that of incomplete block designs have been discovered. Considerable program has been made in finding out the number of non-isomorphic solutions in the case of incomplete block designs.

ANNUAL REPORT FOR 194344

Multivariate Distributions? In the year under review S. N. Roy has obtained sultable reduction formulae by which it is possible to evaluate numerically the incomplete probability integrals (both on the number of the control by the fact of the incomplete probability integrals (both on the number of the control by the fact of the fact of the control of the integral of the integral of the property of the integral of the productions, or in respect of mean values of k spullishrists normal populations supposed to have the same set of variances and co-variances; the integral flat statistical of these postations had already been worked out by him in the preceding year. It may be further monitioned that Mahakanbirs Geocratical Distance (D') is flatding editable application in discr1 insting between and classifying different center and tribes in the United Provinces on the basis of ambropometric measurements made during the 1841 (Imma.)

Construction of Numerical Tokke: Very useful work on the construction of mathematical tables, and the unbiased partitioning of the tail areas of various important statistical distributions including those for x* and t, (under non-null hypotheses) influing continued by P. K. Rosesand S. Rajs Rae under the general guidance of P. C. Mahalanobia. Chicklatina.und-6% and 1%, points of the classical D*statistic for different values of the number of variates is hearing completion. A table of Bessel Functions for different values of an imaginary argument has been prepared and will be soon published.

STATISTICAL EXQUIRES

A large number of enquiries were uttended to through correspondence this year, as in previous years.

The distribution by subjects and administrative regions of the more important enquiries are shown below:—

By Subjects: Agricultural 9: Anthropological 2. Educational 7: Industrial 19: Sample Survey 4: Socio-economic 3: Theoretical 7: Vital 1: Miscellaneous 1: Total 53.

By Regione: Assem 1; Bongal 15; Bihar 1; Bombay 16; C. P. and Berar 2; Delhi 5; Madras 1; Orista 1; Sind 2; U. P. 6; Total 53.

ARRANGEMENTS IN THE STATISTICAL LABORATORY

As mentioned in earlier reports, portions of the Statistical Laboratory were removed as an evacuation measure in 1942 to Girichi and Barnagore; and the work of the fastitute had therefore to be carried on at three places, namely, 'claruta, Barnagore and Giridhi. The Hon. Secretary went to Giridhi aevoral time during the year, and other workers were also sent there from time to time. Owing to increasing postal delays and difficulties of communication arrangements had to be made for important revends being carried between Giridhi and 'tileutta by special nessengers. The number of workers in Chivuta remained more or less stationary on account of lack of aeronmodation, but the staff at Barnagore and Giridhi had to be steadily expanied to cope with the increasing pressure of work.

NUMBER OF WORKERS

The number of workers employed on a monthly basis was \$1 and the number of piece-rate workers 17 on the lat April 1912. During the year under roview 331 new appointments were made on a monthly basis and 143 as piece-rate workers while 141 on monthly basis and 130 piece-rate workers left the Laboratory so that on the 31st March 1941 the year closed with 371 workers on a monthly basis and 39 piece-rate workers with a total strength of 300 workers in all. The average strength of workers was 80 in Calcutte, 61 at Hornaspore, and 63 at Gridly thought they year under roview.

LESTITUTE STAFF

K. R. Nair, Bisconder Nath Ghose, Alizandrussolan Sen Gupta and Mrs. Channel Bose worked in Cleutta must of the time; N. T. Mathew was in charge of the Civilib Beanch during the whole of the year under review. Fajchandra Bose, Samareodmash Roy and Puraseda Kumar Bose although working as whole-time teachers in the Peat-graduate Department of Statistics of the Calcutta Visivensity, maintained liberi intimate contact with the Statistical Laboratory and shared fully in its activities. In the Computing Soution, Nimacharan Ghose and S. Raja Rao assisted by Sambhu Nath Halder, Aron Kumar Ganguit Burach Chendra Sarkbel, and Shyamsundar Bose were in general charge of the work in Calcusse sith Barangore, while Shandar Nath Taduplae with Harbhaigan Chandra Sarkate looked after the computing work at Giridib. Among old workers Subhir Kumar Baneria e Heramba Chandra Ghosel, Subolit Chandra Date Qupta, Jaladhar Sarras, Gayanath Adak, Saras Chandra Mitra Probbat Chandra Shish, Debebot Sarba Haur, Furna Chandra Shish, Debebot Sarba Haur, Furna Chandra Shish, Debebot Shish

scences in Calcutte, Berstagors and Giridib. M. E. Dutt has been appointed as Assistant Secretary of the Institute from 1st Fabruary 1944, in place of E. Gupta who has resigned. In the Fadd Branch, Dhirundra Mohan Ganguly was in Charge c-8Supervisor and Pranay Emmer Chatterjoe and Santipriya Boss sould as Assistant Supervisors.

Fromen's Section in Coloutia: AFF79Rm's section was started in Caloutia after the reconstill experiment at Giridib. The women workers, apput fifteen in number, are being paid on the piece-rate barin. An organizar has been appointed and put infr fazgr of this section. Some of these workers take that work home and do it there, and some work regulally under the respectives of the organizer.

Changes in staff: During the steef under review a good number of our workers (both senior and junlor) that the Intelligence of the Steep power of Statistics. And Bhatacharya, another senior worker, joined the Department of Commons of the Steep power of Statistics. And Bhatacharya, another senior worker, joined the Department of Commons of the Steep power of Statistics. And Bhatacharya, another senior worker, joined the Department in Commons of the Steep power in Decomber 1943; statistician. Many of the Steep and Covernment in Calcutta as statistical officer in November 1943; stanisdra Nath Choos went to the Decon University in November 1943 as elatistician; V. Ramachandra Rao Steep the Steep power of the Steep St

Against these departures, several young persons have joined our Laboratory either as technical apprentions or in other capacities: C. Radhakrishna Rao, Harkinkar Nandi and Nirmalicumar Chakrovarii stood int, 2nd and 3rd respectively in the first class in the M.A. and M.Sc. examinations in Statistics of the Calculta University held for the first times in 1943; Miss Bins Son is a first class first M.A. in Mathematics of the Dacca University and had Statistics as an optional subject in the degree extinuities: Mr. Sr. Rangamma Muthanna is an M.A. in Mathematics with Statistics as a special rover of the Mysers University; Ramirishna Mutherjes is a first class first M.A. in Anthropology of the Calculta University. A flist of the technical apprentices is shown in Appendix 3.

BRANCH LABORATORY AT CIRIDIE

The year 1943-44 was one of steady expension at Ciridib. The number of workers stated with 43, in April 1943 and increased to 155 in January 1944. N: T. Mathlers, Statistician, was in charge of the Oiridib Laboratory throughout the year, and carried on his work with great energy, enthusiasm and ability.

In April 1943 the staff consisted of men who had been transferred from Calcruts as an evacuation men in 1942 together with a few workers recruited locally. This was gradually strengthened chiefly by local recruitment on a piece-rate basis about which farther details are given below. In October 1943 the Bion. Scoretary together with a large number of statisticians and other workers arrived from Calcruts and stayed at Giridin for more than one month for advanced work and research of various kinds. In Juneary 1944 the staff land to be expanded very rapidly for the properatory work for the Bihar Crop Survey Scheens the bulk of which was done at Giridin; a general description has already been given of this work in an earlier section. The preculiar feature of the arrangements at Girldin is the fact that a 1 tags number of the workers live in premises in the occupation of the Irestitute. This has made it possible to make various experiments in organization and has Jed to an appreciable morease in on-operative activities of many kinds.

Elect rate System: At Giridit systematic offorts were made to work out a flexible scheme for payment by piece-rime system. This was introduced in the boginning partly to meet a fluctuating demand for computing work and partly to ensure equitable remuneration being given to more painstaking and careful workers. In setual practice a standard rate of output has been propared (and is revued from time to time) for a large number of individual items of computational work, and definite rates of payments are fixed for

ANNUAL REPORT FOR 1943-44

each item. Payment however is not made only on the basis of output, accuracy is also taken into consideration and suitable deductions are made for maintains in commutaton. The system has worked successfully and it has been found possible to provide work on piece-rathensis for from 50 to 75 per cont of the total number of workers.

Women's Section: One advantage of the piece-rhorf-glasm is the possibility of supplying certain lieuze of work to women who could not keep regular hours. Dag couril devote a certain amount of time during lieuzer hours at home. In the beginning all the women workers used to work at home, but gradually a number of them began to attend the Laboratory regularly at first on surface-rate basis and later on some of them standed as whole-time workers.

Training Section: At Giridill great difficulties had to be faced due to abortage of trained hands especially in January when the staff had to be more than doubled all on a sudden from 72 to 156 in order to cope with the Bihar Crop Survey work. This led to the initiation of organized training courses for computers, and such training was given to their 30 workers including three women in February and March.

Library: As monitioned instarties reports the main library and valuable records were removed to Giridih early in 1942 as no avacuation reseasure and have been stored there for the present. From Giridih nearly 4,000 pages of photoprists of books and articles were sent to Galcuta for the use of workers there. The preparation of a classified catalogue with author and titles was taken in hand and was progressing smoothly. In spite of limited resources a circulating library of general literature was started at Giridih in 1942 and has been working successfully.

Bilar Crop Surrey. The bulk of the preparatory work of the Bilar Crop Survey was done at Girdin. This was started early in December. The work had to be expanded rapidly in January and about 50 workers were treasferred from Calcuta to Girdin for this purpose and a large number were recruised forcell. At the rend of January the total number of workers at Girdili was about 153 among whom more than 90 land to be provided with both food and lodging. Lark of accommodation was a great difficulty. At the instance of the Government of Bilar, the Deputy Commissioner, Hazaribaph, placed at our disposal buildings and premises belonging to one Mr. Myers situated very close to the premise at present occupied by the Institute. This however is not adequate, and an application has been already submitted for the acquisition of land near the Institute promises and as soon as possession is obtained of this land it is proposed to put up additional buildings.

Other activities: The Bool. Secretary during his stay as Giridh in Ortober 1942 gave a series of I leatures followed by discussions on the hatory of statistics with special reference to the work of Karl Pearson and his school. A large number of statistical workers and university teachers who were present at Giridh attended these moetings which often continued for two or three hours at a time. At the said of October 1943 the workers of the Statistical Laboratory at Giridh suaged Rabindranath Tagore's play Vailwaher Khata in Bengali in aid of the Bengal Pamins Ralief Fund: the Hon. Secretary took the part of Vaikunthar. A sum of over Ra. 1,200 was collected and has been handed over to famine relief organizations.

BRANCH LABORATORY AT BARANAGORE

Barly in 1942 it had been decided to remove a portion of the Statistical Laboratory to Ammpali, the Hon. Secretary's garden loose at Baranagere, as a safety measure against the contingency of our being requested to vacuate the counts in the Presidency College, Calcutt... In 1943 owing to expansion our setticities the computing staff had to be steedily increased, and, as no further accommodation was available in the Presidency College, more and roore man had to be transferred to Baranagere from Calcutts so that during the preparatory work for the survey of paidly in Bengal in 1943 the total number of workers increased to over 100 at illeranagere. Even this was not enough, and a new shed for computing work was built in October 1943 which increased the accommodation appreciably. At prevent the built of the primary computational work of the Bengal Crop Survey is being done at Baranagere sover 100,000 Cs. village maps are stored those for this purpose. The Central Store of the Hithito has been removed there, and a supersed office has also been organized. The total number of workers as Baranagers increased to over 150 in February 1944. A number of workers live in the premise with the Hon. Secretary and Mrs. Mahalanabis; they all have food from a common hitches run by theseworkers themselven. Two other messes for workers are own in Frested houses in the neighbourhood and provipe accummodation.

tion for about 40 workers. Under war conditions the Institute has been thus obliged to run residential cetablishments for workers at two piaces, Girquig & 4 Baranagors.

Summer Focation Camp at Kalimpouggles, uring the summer vecation of 1843. Camp Laboratory was set up at Kalimpoug for about three moss __was attended among others by Prof. P. C. Mahalanobia, Rajelanodre Boes, Remarendremant Roy of Per fenanth Obesh, Purnendahurmar Boss. Jitendremohan Son Gupta, 8. Raje Rao, Monimohan Mutherjee, _prus Rumar Ganguli, Probhat Kumar Sinha, Kanasila Inders in the Bongal Crop Burvey Scheme, Dhirendremohan Ganguli, Santipriya Bose and Pranayzkumar Chatterjee also went there for a short time. A _cust deal of progress was made in research work on both theoretical and applied topics, the workers being comparatively free from the routies administration and outside organized almost continuously from 1929, at first informally up to 1937, and since them in a more formal manner from the Institute beginning with the summer comp application in a more formal manner from the Institute beginning with the summer comp application.

STATISTICAL LIBRARY

The bulk of the stock of the library continues to be maintained at Giridin in accrodance with the general policy adopted for the duration of the war. For the convenience of the workers a branch is maintained in Calcutta, and a branch was opened at Baranagure in the year under review. The library functioned normally and books were requisitioned from Giridin for Calcutta and Baranagore as necessary. This was supplemented by the use of the micro-film photo record apparatus by which photographs were masked of articles and books on cincens films and sent to Calcutta.

The total number of books added to the library during the year was 440. Of these 394 books were purchased; 31 were received as free gifts; and 15 books were received for review in Sankhya. Even after four years of war we received 69 annuals and 161 periodicals. The number of volumes issued by the lending section was 1347 and the number issued by the reference section was 2588, the total being 3016 (as assists 2231 in 1942-43.)

The Librarian, Jibananda Saha, who was seed for training to the Imperial Library (Government of India) passed the Diploma examination with result. A constraint of the Imperial Library arrangements up-to-date and scinctife. An Assistant Librarian, Biswayili Roy, trained at the Imperial Library and Bengal Library Association (in co-operation with Calcusta University) was appointed to speed up this scheme. Systematic work has been taken up in classifying the books in accordance with the Devery Pecial classification system and preparing (a) a Distinctionary and (b) a Classific statiogram, a current hibbography of Statistics based on the stock in the library is also being prepared. Besides the main scientific library, a circulating library of general librariure is also being resistant for the boasts of the workers.

SAMENYA: THE INDIAN JOURNAL OF STATISTICS

Due to the war emergency it was not possible to bring out last year more than two issues (Vol. 8

Parts 3 and 4). In some cases there was a most deplorable lag between the date of receipt of a paper and
its publication. As a result of a series of discussions among senior workers a strong group of workers under
the leadership of Mr. Raj Chandra Bose have undertaken to bring up to date the technical editing of all
papers in hand at the earliest opportunity.

The audited accounts are given below :-

Sankhya: Receipts and Payments Account for the year ending 31st March, 1944

REC	EIPT3					PAYMENTS			
To Opening Balance Cash in hand Cash at Bank Subscription Grant from the Gove Advarce from Stati	Rs. a. P 41 4 3 294 1 9 ernmont of Indiation Publishin	335 340 a 2,000	6	P. 0 0	Ву	Contingent Expenses		ű	
Socrety.		900	0	0			- 393	5	0

ANNUAL REPORT FOR 1943-44

TRAINTHO WORK AND EXAMINATIONS IN STATISTICS

During the war amorgoncy it is natural that officer would not come for training or consultation, specially form notation Bongai, so freely as in the pre-was upy, Fittil a fair number of them came here for reasing or reinstitide consultation and a complete late of youth Natures is shown in Appendix 2. K. B. Nills was in charge of this section up to 6th February 1848 angivitancies Nath Obook from that date. As regards the standard training course run by the funtitute, which Marrayford oring to the war senegacy, we had air students in all, but mostly they stayed for a shorter Rhejol Dan the full sension of one year as they were either absorbed in the Institute staff or they scopted Employment elemeters (Appendix 3).

Institute Erominatione in Stabilities 1 In apite of the westinggergency, Computer's Cortifloste Examinations were held from 13th to 17th August 1943, in which 19 exclidates appeared of whem it were successful. The Beard of Examiners consisted of Professors K. B. Machawd, U. S. Nair, P. C. Mablanchold and Meser. R. C. Bose, S. M. Roy and K. R. Nair. It is proposed to hold these examinations again in the near future.

Vierne

As in previous years a large number of visitors came to the Statistical Laboratory, during the year under review. Among them was Pirch, A. W. Hill, F. H.S., M.P., Secretary, Royal Society of Laboratory, during the looked into the work in the Caleuta Laboratory and also spent several hours at Baranagers where he saw the arrangements made for the large staff segaged on the Hengel Crop Survey Schema. Sir C. D. Deshmath, Governor, Reserve Bank of India and one of the Year-Prescients of the Institute saw the work both in Uniform and all Baranagers at close quarters. Another dutinguishal visitor was Dr. Sing Shan Chen a member of the Chinese Academy who had come to India for a short visit. During the year unsier review contacts were also established with a number of Army Officers interested in the application of Statistics to various subiotics.

LOCAL BRANCHES OF THE INSTITUTE

Up to the time of going to the press, we received the reports of the following branches, and short nummaries of their activities are given below.

Delki Branch: The Delhi Branch, though only in its eccord year of existence, has been carrying on its activities with eccept. Thanks are due to the authorities of the Hindu College, who are allowing the Branch to hold its meetings in the College premises. Blocks or of Golfe between and members of the Executive Committee took place on 30th October, 1943 with Sir Shri Ram in the chear. Sir T. E. Gregory, Economic Advisor to the Government of India, was elected Presudent, Dr. P. V. Sukhatma Treasurer, and Mr. G R. Soth, Secretary of the Branch. The following three lectures were arranged during the year, all of which were well-attended and wwo followed by lively discussions:—

- (1) Statistical Engineering in Business Organization by Mr. M. V. Divatia.
- (2) A Study on the Comparison of Milk by Dr. P. V. Sukhatmo-
- (3) Large Scale Sample Surveys by Mr. K. R. Nair.

Lucknow (U. P.) Branch: During the year 1943-44, this branch has been conducting an investigation into the standard of living and social conditions of the middle classes in Larebow (Vit, "Two investigators have been appointed and have cellected taket norm 500 femilies by random sample nethod in respect of the zinc of the family, diet, fertility, income, literacy, housing, sickness etc. The data collected are now being analysed and a report will be ready shortly. Prof. Radhakamai Mutrrjoe was in charge as Secretary of the Branch.

Posse (Dressa) Branch: Prof. V. O. Kais continued to be the Chairman of the Branch. Prof. D. O. Karve who ably filled the office of the Local Severtary for the last 12 years, laid down it is office in Jasuary 1014, and Mr. N. V. Sovani was elected as the new Sorrestary. The number of tife-neembers increased to 12 this year. The members of the Branch wave frequently consulted by official and non-official agrecies in connection with raticiants, price control, procupency of food grains, etc.

Mysers Brench: The Branch worked, as usual, in collaboration with the departments of Stalis' h., Becommins, and Psychölogy of she Univarity of Mysers. Five meetings were held in the year at which papers were read and discussed. An exhibition was arranged at which computing machines, chattassis didgrams, schedules of certain statistical enquiries and portrists of beading statisticians were on view. Dork K. D. Madhava was Secretary during the year under review.

MINORICANIZATIONAL

Past-Oracious Deportment of Statistics: Our salking-ration with the post-graduate department of Mariant Deportment of Statistics of the Calorita University continued as bolars and the Ros. Scorttay was the Ros. Raile of the gaparitment throughout the year. Pursends Kunell Bose officiated as whole-time Assistant Lectures for about three months in place of Sadari Sea Guppage former senior worker of the Institute; who had attach issave from the Orienterity in August 1444 to gap work as Sadaristicate to the East Indias Railway. Purmendu Bose is now acting as part-time lectured in place of K. R. Nair who left for Delbi in 1944. Mixtunda Chandra Chandra wat from Daoon (whomand been working in the Statistical Laboratory during weakings since 1949) joined as Assis. Locature in Sections, 1943. Benedin Nath Chook Joined the department in November, 1943 and is acting as her-time lectures in place of Amil Bhattacharys who left for Patna in Docember 1943. C. Radha Kringhan Rao and Harikinkas Nandi (who stood first and second respectively in the first clear is the M.A., and M.Se. examination in Angust (1943) we acting as part-time Assistant Lectures. Mrs. Chambil Bose and Nirmal Kunas Chakravarti (who also had peased the M.Se. examination in the first clear is now tring as Hoostary Lectures.

The examination of the Calmite University for the MA. and M.Scrüben's a Statistics was held for the first lime in August 1945; and the standards passed it after completing a two-year whole time course. It may also be mentioned that the students of the post graduate statistic department together with the teaching staff solvely participated for about a fortnight in November 1943 in the field survey especially the supervising work on Arman paddy at two of the samps of the Bengal Crop Survey at Baniban (Howrsh) and Singur (Hooghly).

Loss Services: We place on record our grateful appreciation of the courtesy shown by the Indiac Contral Jute Committee by leading us the services of Mr. Dhirendra Mohan Ganguli, and by the authorities of the View-Bharaii by leading us the services of Mr. Santipriya Bose for the greater part of the year for supervision work in the field branch of the Bengal Crop Survey Scheme.

Photo record opporatus: We offer our thanks to the Royal Asiatio Society of Bengal for having kindly agreed to keep in our custody their photo-record canera with which it would be possible to take histographs of operate and consensate on cinema films. We have undertaken to pive 5000 appearing free of charge of valuable documents belonging to the Asiatio Society and also to prepare photographs of valuable non-commercial documents belonging to other societies or persons as far as practicable on payment of cost of materials.

ANNUAL REPORT FOR 1943-44

TRAINTHO WORK AND EXAMINATIONS IN STATISTICS

During the war amorgoncy it is natural that officer would not come for training or consultation, specially form notation Bongai, so freely as in the pre-was upy, Fittil a fair number of them came here for reasing or reinstitide consultation and a complete late of youth Natures is shown in Appendix 2. K. B. Nills was in charge of this section up to 6th February 1848 angivitancies Nath Obook from that date. As regards the standard training course run by the funtitute, which Marrayford oring to the war senegacy, we had air students in all, but mostly they stayed for a shorter Rhejol Dan the full sension of one year as they were either absorbed in the Institute staff or they scopted Employment elemeters (Appendix 3).

Institute Erominatione in Stabilities 1 In apite of the westinggergency, Computer's Cortifloste Examinations were held from 13th to 17th August 1943, in which 19 exclidates appeared of whem it were successful. The Beard of Examiners consisted of Professors K. B. Machawd, U. S. Nair, P. C. Mablanchold and Meser. R. C. Bose, S. M. Roy and K. R. Nair. It is proposed to hold these examinations again in the near future.

Vierne

As in previous years a large number of visitors came to the Statistical Laboratory, during the year under review. Among them was Pirch, A. W. Hill, F. H.S., M.P., Secretary, Royal Society of Laboratory, during the looked into the work in the Caleuta Laboratory and also spent several hours at Baranagers where he saw the arrangements made for the large staff segaged on the Hengel Crop Survey Schema. Sir C. D. Deshmath, Governor, Reserve Bank of India and one of the Year-Prescients of the Institute saw the work both in Uniform and all Baranagers at close quarters. Another dutinguishal visitor was Dr. Sing Shan Chen a member of the Chinese Academy who had come to India for a short visit. During the year unsier review contacts were also established with a number of Army Officers interested in the application of Statistics to various subiotics.

LOCAL BRANCHES OF THE INSTITUTE

Up to the time of going to the press, we received the reports of the following branches, and short nummaries of their activities are given below.

Delki Branch: The Delhi Branch, though only in its eccord year of existence, has been carrying on its activities with eccept. Thanks are due to the authorities of the Hindu College, who are allowing the Branch to hold its meetings in the College premises. Blocks or of Golfe between and members of the Executive Committee took place on 30th October, 1943 with Sir Shri Ram in the chear. Sir T. E. Gregory, Economic Advisor to the Government of India, was elected Presudent, Dr. P. V. Sukhatma Treasurer, and Mr. G R. Soth, Secretary of the Branch. The following three lectures were arranged during the year, all of which were well-attended and wwo followed by lively discussions:—

- (1) Statistical Engineering in Business Organization by Mr. M. V. Divatia.
- (2) A Study on the Comparison of Milk by Dr. P. V. Sukhatmo-
- (3) Large Scale Sample Surveys by Mr. K. R. Nair.

Lucknow (U. P.) Branch: During the year 1943-44, this branch has been conducting an investigation into the standard of living and social conditions of the middle classes in Larebow (Vit, "Two investigators have been appointed and have cellected taket norm 500 femilies by random sample nethod in respect of the zinc of the family, diet, fertility, income, literacy, housing, sickness etc. The data collected are now being analysed and a report will be ready shortly. Prof. Radhakamai Mutrrjoe was in charge as Secretary of the Branch.

Posse (Dressa) Branch: Prof. V. O. Kais continued to be the Chairman of the Branch. Prof. D. O. Karve who ably filled the office of the Local Severtary for the last 12 years, laid down it is office in Jasuary 1014, and Mr. N. V. Sovani was elected as the new Sorrestary. The number of tife-neembers increased to 12 this year. The members of the Branch wave frequently consulted by official and non-official agrecies in connection with raticaline, price control, procupency of food grains, etc.

Mysers Brench: The Branch worked, as usual, in collaboration with the departments of Stalis' h., Becommins, and Psychölogy of she Univarity of Mysers. Five meetings were held in the year at which papers were read and discussed. An exhibition was arranged at which computing machines, chattassis didgrams, schedules of certain statistical enquiries and portrists of beading statisticians were on view. Dork K. D. Madhava was Secretary during the year under review.

MINORICANIZATIONAL

Past-Oracious Deportment of Statistics: Our salking-ration with the post-graduate department of Mariant Deportment of Statistics of the Calorita University continued as bolars and the Ros. Scorttay was the Ros. Raile of the gaparitment throughout the year. Pursends Kunell Bose officiated as whole-time Assistant Lectures for about three months in place of Sadari Sea Guppage former senior worker of the Institute; who had attach issave from the Orienterity in August 1444 to gap work as Sadaristicate to the East Indias Railway. Purmendu Bose is now acting as part-time lectured in place of K. R. Nair who left for Delbi in 1944. Mixtunda Chandra Chandra wat from Daoon (whomand been working in the Statistical Laboratory during weakings since 1949) joined as Assis. Locature in Sections, 1943. Benedin Nath Chook Joined the department in November, 1943 and is acting as her-time lectures in place of Amil Bhattacharys who left for Patna in Docember 1943. C. Radha Kringhan Rao and Harikinkas Nandi (who stood first and second respectively in the first clear is the M.A., and M.Se. examination in Angust (1943) we acting as part-time Assistant Lectures. Mrs. Chambil Bose and Nirmal Kunas Chakravarti (who also had peased the M.Se. examination in the first clear is now tring as Hoostary Lectures.

The examination of the Calmite University for the MA. and M.Scrüben's a Statistics was held for the first lime in August 1945; and the standards passed it after completing a two-year whole time course. It may also be mentioned that the students of the post graduate statistic department together with the teaching staff solvely participated for about a fortnight in November 1943 in the field survey especially the supervising work on Arman paddy at two of the samps of the Bengal Crop Survey at Baniban (Howrsh) and Singur (Hooghly).

Loss Services: We place on record our grateful appreciation of the courtesy shown by the Indiac Contral Jute Committee by leading us the services of Mr. Dhirendra Mohan Ganguli, and by the authorities of the View-Bharaii by leading us the services of Mr. Santipriya Bose for the greater part of the year for supervision work in the field branch of the Bengal Crop Survey Scheme.

Photo record opporatus: We offer our thanks to the Royal Asiatio Society of Bengal for having kindly agreed to keep in our custody their photo-record canera with which it would be possible to take histographs of operate and consensate on cinema films. We have undertaken to pive 5000 appearing free of charge of valuable documents belonging to the Asiatio Society and also to prepare photographs of valuable non-commercial documents belonging to other societies or persons as far as practicable on payment of cost of materials.

00 000000

Provident Part of Shemriskon and Provident Fund Shemris and Provident Fund I noome Tax realised from staff Funds realised Funds realised Funds realised Adigase from Full F.C. Mahalandis

3,356 14 23,217 13 1,031 4 1,031 4 10,030 0 10,030 7 0,000 0

•

1	•	0000			0000	. 000000	9
1	· ·	010-1	* -	240 5	00000	5 20 20 20 20	:
	. ₹	8,62,278 6,016 16,213	28,734	3.236 3.236 500 10.006		20.07 20.07 20.07 20.07 20.07 30.07 30.07 30.07	
		•			-	ultin	
	. • • •	,					004
	4	3					
	Re. A. P. 1,61,394 4 26,823 1	: : :	:::	::::	:::	: :::::	\$6,122 109 48,867
_ ا	2 " 5		į d	3	Š	4 3	3 3
2 2	ė ė a	 L . E . B	2		
PAYMENTS	Salary and allowance (behilding re- acarribution to Leave Salary and Fre- vident Fund		Stationery and Store puritaes Uther expenses (hire charge of machines, furniture and rent etc.)	fordiers Strictisted Conforced servagements Region of the Conforced servagements Authors for the advance to Prof. P. C. Matalonobia P. C. Matalonobia Contribution to Statistical Publishing	Society Grant for Sankhye Lisant for Sankhye Lisantination fow Lisantination fow Lisantination fow Bongal Government Crop Survey 1843-44	Bangai Governinant Crup States Bangai Governinant Crup State (1944-45 Bar Crup Starve (1964) Bangar Crup Starve (1964) Bangar Crup Starve (1964) Girilli Mauning Salanen Girilli Mauning Walanen	
PA	a for	<u>.</u>	Stationery and Store pur-late Other expanses (hire charge of furniture and rent etca	Z Z	ĝ	d 4	
	# # # E	Books and Journals Caboratory Equipments Establishesest and Trevelling	onory and Storo purely r oxponece (hiro charge furniture and rent oter	Execution and Emorgonist a tutions for the form of the		Other field expenses field expenses furvey (Field) ing Scheme count	
	9 9 9	Books and Journals Caboratory Equipments	202	an Statestical Conformation and Emerge items for a large and a large P. C. Mahalanobia relbution to Statistici	Sociaty Grant for Sankhya Francination fors Jule & Aus Survey (194: Bongal Government Cre	Bengal Coveringest Crops Bhar Crop Burvey (Field) Construction, maniferance Givilish Housing Schomo Givilish Housing Schomo Library dopour Chaire Account	
	2325	143	P S		7 6 6	1 2 2 2 2 2 2	: 13
	ary and allo search staff) ribution to L vident Fund vy and Allov Survey Field	23	3 5	1, 2, 2, 3, 3	Society Grant for Sankhye Examination feet Jule & Aus Survey Bongol Governme	Gengal Government Bhar Crop Survey Construction, man Giridi Housing Sol Support Account	Defence loan Carl in hand Coal in Bank
	95355	F 6 4		LOS E	5,246	8 6 2 2 2 3	9.3.5
	38435	344	E	Evacuation E Evacuation E Auditors foo Repaymont of P. C. Ma Contribution	Sociaty in for Se in matter of Aus	T OFFICE	ລິດີດີ
	la od al	020	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	S Person	5 2 2 8	A GOOD	Defence loan Carl in hand Coal in Bon
	By Salary and allowance (hoduding research staff) Coartbuilds to Loave Salary and Fre- vident Fund Allowance (Bongal Cyop Relary and Allowance (Bongal Cyop	::::	:::			: ::::::	
_	20001	••					60 (
	+000-	••			٥ ۵	• •	-1 :
	780 780 101 110 850	88	6,000		8 8	1,000	3,356 14
	780.78 780 101 101 850	2,000	8,000 8,000		4,10,600	1,000	3,356 14
	"	•			÷		
				ه ه	1 201	93	
	i i				0.00		
	4 1 2 1	: ::	: :	: 8:8	22	:: 83	:
	#			3,80,500	1,665	: : 000,41	
2				, j	8 1	_	'
RECEIPTS	:::::	1.11	: 6:	3 3	Ĭ:	* 8 · O	: :
5		sartment of Education, Muslth and Lands	7	4 5	ė 3	20.	
ď	1 4	8 8 4	3 25	3 3	gg a	-4 56 5 2	. § 5
		27.3	4 8 8	3§.§.	3 4	200	320
	4	52999	1 2 2	B G G	2 3	8000	9 0
		1 1 2 3	<u> </u>	20.0	0 8	2023=68	23,
	1 1 2 3 4	Promont of India Department of Education, Health and Lands Earmarked for Sankhya	outling Research J.C.A.R. Regional Survey of Sugarean Borers	Bengal Crop Survey (1943:44) Bengal Crop Survey (1944:46)	B.E.E. Crop Cutting (1944-45) River Research Institute	ramont of Bihar 198 Bihar Crop Survey 118 Bihar Crop Survey 118 Bihar Crop Survey 118 Bihar Crop Survey 118 Bihar India of Prof. Mahalanobis's sorvious Bihar Covernment	33
	Bald and	Government of India Department of E Masth and Earmarked for N	130,	Government of Bengal Bengal Crop Surv Bengal Crop Surv	B. B.	Government of Bihar 1843-44 Government of Gontral Provinces Government of Contral Provinces House of Contral Provinces House of Contral Provinces Bonged Government Hibre Government	7 20
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		.8		è è è	rovidant Fund Subscrip
	Opening Balance Membership foce Liderest on Investment Training fees and other receipts Ricck Grants			-		- Ja	Provident Fund Subscriptions Contribution to Leave, Salary
	To Opening Balance Membership foos Donations Invest Training foos and Rock Grants	ı				Geverance of Bihar Geverance of Contral Previnces Courfuling Lake or Enquiry Contributions of the Contral Previnces Contributions of the Contral Previnces Hills Coursement Hills Coursement	::
1	H						

(a) Bengal Grop farroy: Rs. 12,000/(Dopt. of Crol Napples No. 3065(a) 4t. 21-7-13), B. H.L. Crop Dathers, 2, 2,000/(Horter of Communeation & Tengenton No. 101-44: 31-44), (b) Filas Crop Narroy: Rs. 5,000/(H)/(Revento Fulls, 1011-1), 101-14),

6,53,813 6

HABITHOS STREET, CALCUSTA,

Examined and Found G Meet.
P. C. NANDI & Con Additors.
Respected to Community.

PAYMENTS	Re. L. P.	2,23,212 6 3 1,763 6 0 24,081 6 9	0 8.706 0 0 6.511 4 0	0 17.177		6,218 0 3 6,806 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9,052 2 3 11,057 10 9	
PA	Banyal Orop Surony Rt. 4. 4. 6 Seatletical Analysis (1943.44, 44-46) By Sainty & Allowance 1,05,509 14 4,10,500 0 0 Oliver exposuse	Print Lanch (1982-8-17), 000 10 By S.HAY, & Albowates 4,75,000 10 By S.HAY, & Albowates 4,75,000 10 By S.HAY, & Albowates 4,8,101 11 S Fold Hazarh Other responses (1864-45) By Chang Dalance	Burdwan-Rooghly Hourah Flushing Scheme 6,960 6 By Salary & Billowance 6,960 1 16,317 4 0 "China sapasses 2,746 11		U. P. Wheat and Supercone Scheme G.808 5 By Salary & allowance 402 6 Other axpenses 185 7	Bilton Crop Symmetrical Analysis 60,319 6 0 By Shirty & allowance 22,078	* Field Branch (Dengel staff on loan) * Closing belonce	Aburned Coah Account Universell and Special Bernarkel and Special Enquiries built \$\$5,076 4 0 General Fund
RECEIPTS	Pr. A. P. Advance for 1843-44 3,86,300 0 0 Advance for 1844-45 30,000 0		To Opening balance (1942-43 19,000 0 0 Block Chant for 1948-44 10,000 0 0	70 Opening balance 3,002 10 0 Block Grant 6,000 0 0 Advance from Inatitute 1,212 0 0	To Opening balance	To Block Grant		Opening blance : Bernarked and Special Enquiries Pund 15,003 6 0 Ceneral Fund 23,071 14 0

Indian statistical Institutor Earmorked & Special Enquiries Faud. Account for the year anding March,

							Examined and Found Correct	P. O. Nandi & Co., Auditore.	Charleted Accountants.
8	ú,	٥.	۰	۰	۰	•	_		
83	į,	٥٥	۰	=	۰	0	'n	7	
a' bonomery Tol	ž	009	900	3,482	2,000	200	11.727	20,160	30,066
lenobi	·				۰	0	۰	•	_
ģ	•				٥	0	٥	3	1-
Donations is east. In lieu of Prof. Mahalanabis' bosomary services.	Re.				2,000	1,200	11.000	20,144 1	34,300
ē		• •	5	۰			۰		٥
ě		00	٥	=			۰		٥
nationa 12	:	9000	1000	3,482			727		6,600
Do									Total
		1033.34	1934.35	1036.37	1930-40	1960.41	104::43	1043-44	
								S. HARTINGS STREET, CALCUTTA	The 29th April, 1044.

APPENDIX I. LIST OF PAPERS PUBLISHED AND REPORTS

SUBMITTED IN 1943-44

- BEATTACRARYA, A. On Some Sots of Sufficient Conditions leading to the Normal Bivariate Distribution. (Sanking, 6(4) 1944).
- A Note on the Dissubution of Sum of z's (Sankhan, 6(4) 1944).
- 3. BORE, CRAMELL. Note on the Campling Error in the Method of Double Sampling. (Southern, 6(3) 1943).
- 4. Bosz, Prangrou. On Confluent Programmetric Series. (Santhyo, 6(4) 1944).
- BOSE, PURNENDU AND RAO, S. R. On the baiting forms of statistical distributions. (Science and Culture 9(9) 1944).
- 6. Bosz, R. C. The problem of balancing in symmetrical factorial design. (Ind. Sc. Compress 1944).
- 7. —— Fundamental theorem of linear estimation. (Ind. Sc. Congress 1944).
- Ghosm, Buendranath. On some artificial fields and their correlation Function. (Science and Culture 8(10) 1943).
- 9. On random distances between two rectangles (Science and Culture 8(11) 1963).
- On two types of correlation function (Science and Culture 9(1) 1943).
- On sampling in unknown fields (Science and Culture 9(3) 1943).
- 12. On the construction of some antural fields (Science and Culture 9(3) 1949).
- Some studies in Mahalanobia' Correlation Function (Incl. Sc. Congress 1944).
 Manalanous, P. C. An Enquipy into the Providence of Drinking Tee among Middle class Indian Families in Calcutta (Sunbhos 613) 1943).
- 15. Multi-Stage Sampling (Ind. Sc. Congress 1044).
- Report on the Regional Survey of Boror Pests of Sugarcans. Parts 1-9 (Submitted to Imperial Conneil of Agricultural Research).
 - Final Report on the Sample Course of the Area under Jute and Aus Paddy in Bengal 1943.

 (Submitted to the Government of Bengal).
- Preliminary Report on the Sample Consus of the Area under Aman Paddy in Bengal ,1943, ISubmitted to the Government of Beneath.
- MARKALANORS, P. C. AND GHORI, BIRKNDRANATH. Statistical analysis of data relating to incidence of posts and discasse on different varioties of Sugarcane (Indian Statistical Conference, 1943).
- 20. Mathew, N. T. Lines on the Human Palm. (Sankhya, 6(3) 1943).
- Nain, K. R. Certain Inequality Relationships among the Combinational Parameters of Incomplete Block Designs (Sonthyo 6(3) 1943).
- 22 —— A Note on the problem of K-Samples (Current Science 12 1943).
- 23. The Recovery of Inter-block Information in Incomplete Block Designs (Sankhya 6(4) 1944).
- NAIR, K. R. AND BANKEREA, K. S. A note on the fitting of straight lines when both Variables are subject to error. (Sunkhys 6(3) 1943).
- Nandi, H. K. Note on the Enumeration of Non-isomorphic Solutions of Balanced Incomplete Block Designs (Ind. Sc. Congress. 1944).
- 20. Rao, C. R. Certain experimental arrangements in quasi-Latin Squares. (Current Science 12(12)1943).
- 21. Generalised Variance of Populations (Ind. Sc. Congress 1944).
- Roy, S. N. Multivariate analysis of variance when the number of populations is less than or equal
 to the number of characters. (Ind. Sc. Congress 1944).
- Roy, S. N. and Bosz, Purnerou, Pernoulli's theorem and its analogue deduced from Tabebust-Sura theorem (Ind. Sc. Congress 1984).
- \$EN GUPTA, J. M. A note on adjustments for first and second memoris in a grouped frequency distr NOtion split up into sub-sections (Sankhya 0(4) 1944).

APPENDIX 2. OFFICERS ON DESTUTATION FOR TRAINING AND SCIENTIFICE/ONS TATION: 1943.44

- 1. S. M. BARKAR, Ph. D. (Lecturer in Bolley, Callittle University) Pebruary, 1942,
- 2. S. P. Bosz, B.So. (Wales). (Institute of Eural Reconstruction, Srintbetan, Birkhum) April, 1943.
- 2. MD. ARDUR RAHAMAN, M.So. (Ricer Mescurch Institute, Bengol) May, 1945; Fob. and March, 1944.
- 4. I. B. CRATTERIER, M.Sc. (Ag.), L.Ag. Physiological Chemist, Government of Bengal, Dacca) May, 1943.
- 5. P. R. RAY, M.So. (Statistician, expartment of Agriculture, Bengal) May, 1943 and March 1944.
- 6. K.P. Pillal, M.Sc. (Physiological Assistans, Ravenskaw College, Cuttack) June 1983; Jan. Feb., March 1944.
- 7. A. K. CHARRAVARTY, M.So. (Rice Research Officer, Banhura) June 1943.
- 8. 8. HEDAYETULLAR, Ph.D. (Cantab) (Sconomic Bolunist, Department of Agriculture, Hengal) June 1943.
- 9. P. B. BHATTACERBJER, M.Sc. (St. Stephen's College, Delhi) 21 June to 196 uly 1943.
- 10. J. B. MATRUR, Dip. Hort. (London, Wye) (Borticulturist, Outset) 2 July to 2 October, 1943.
- 11. SUBRATA SEN, M.Sc. (Department of Agriculture, Bengal) La July to 4 August and 1 to 9 October 1943.
- 8. C. CHARRAVARTY (Rice Research Officer, Chinemes) 28 July 1943 and 18 August 1943 and 14 February 1944.
- 13. P. O. CHOWDHURY, M.B., D.P.H., (Supdt. of Vital Statistics, Public Health Dept. Bengal) July 1913.
- J. R. Pal, B.Ag. (Assistant Rice Research Officer, Bankura) 39 July to 6 August 1943 and 11-September to 15 September 1943 and 18 March 1944.
- 15. M. C. CHARRAVARTY, M.Sc. (Lecturer in Statistics, Ducca University) 28 September to 97 October 1943.
- 16. BUTROKASH SEN, M.So. (Imperial Veterinary Research Institute, Multieneer, U. P.) October, 1943.
- 17. BALAKRISHNA NAYAR, M.Sc. (Assistant Marketing Officer, Government of India) December 1943.
- M. C. TEWARI. (Imperial Veterinary Research Institute, Multismoor, U. P.) 12 October, 1943 to 12 February, 1944.
- SATYABRATA SEF, B.Sc. (Edin.) (Statistician, Indian Tea Market Expansion Board) February, and April 1944.
- 20. N. C. SEN GUPTA, D.Sc. (Burmak Oil Company (India) Ltd.) Working from March, 1944

APPENDIX 3. STUDENTS IN THE TRAINING SECTION AND TECHNICAL APPRENTICES: 1943-44

- 1. MINS ANITA CHOUDEURY, M.A. (Dacos) April 1943-June 1943.
- 2. MD. PASHTUDDIN, M.A. (Aligarh) July 1943-(Still working).
- 3. B. JANARDAN POTI, M.A. (Benores) July 1843-January, 1844. (Institute staff.)
- 4. T. V. Rangarajan. B.A. (Modros) July, 1943-August 1943.
- 5. K. VENEATA KRISHNAM, B.A. (Hone.) (Madras) August 1943-November 1943.
- 6. BALEL KUMAR RAY CHOWDHURY, M.A. (Calcutta) September 1943-October 1943.
- 7. SUSSIL KUMAR BANERJEE, M.A. (Coloutto) February 1943-January, 1944.
- 8. B. HARDARAYANA. M.Sc. (Calcutto) March 1943-October 1943.
- 9. N. R. RAMASUBRAMANIAN, B.Sc. (Madras) March 1943-Docomber 1943.
- 10. V. RAMAGRANDRA RAO, M.A. (Andhra) March 1943-January 1944.
- 11. Manindra Nate Georg, M.A. (Calcutta) April 1943-November 1943.
- 12. NIRMAL KUMAR CHARRAVARTY, M.A. (Cakutta) September 1943-
- 13. HAMMEDIEAR NANDY. M.So. (Calcutta) September 1943-
- 14. K. C. CHERIYAN, M.A., M.So. (Madras) September 1943-
- 15. R. P. BHARGAVA, M.Sc. (Allahobad), M.So. (Calcullo) November 1843-
- 16. C. RADEADERISENA RAO, M.A. (Andhro), M. A. (Oulcutto) Novembers 1943-
- 17. RAM KRISENA MODERRAJER, M.So. (Calculla) January, 1944—
- 18. GOHEL SANKAR CHATTERIER, M.A. (Colcutto) Pal-Tonry, 1944-
- 19. ANIL KURAR GAYEN, M.A. (Calcutto) Fobroary, 1944.
- 20. MONT MORON MUNICIPALIER, M.A. (Oalques February, 1943-

PROCEEDINGS OF THE COUNCIL OF THE INDIAN STATISTICAL INSTITUTE DATED 29(MAPRIL, 1944.

A meeting of the Council of the Indian Statistical Institute and held at 3 P. M. on Saturday the 29th April 1944 in the Statistical Laboratory, Presidency College, Calcutta.

The Hooy, Secretary stated that a tolephone message was received from the house of Mr. N. R. Sarker. President, staffig that Mr. Sarker had become suddenly indisposed and regretted his inability to attend the message.

Present: Mr. B. B. Dill Uupta was voted to the Chair (in the absence of the President). Prof. K. B. Medhava, Mrs. Chameli Boss, Mesaft, Raj Chandre Boss, Samarandrasath Roy, Prof. Khagendrs, nath Chalorwarti, Dr. Harish Chandre Sinha, Phof. S. N. Soss, Prof. P. C. Mahalasobis (Hony, Secretary) and Mr. Harisharan Ohosh.

- Proceedings of the meeting of the Council dated 30th September, 1943; 4th January, 9th Pobruary, and the 21st February 1944 were road and confirmed.
- Election of Members: The following goatlemen were elected ordinary members of the Indian Statistical Institute for the year 1944-45.
 - Mr. Sydney John William Wella, "Nev-Del", 29, Kensington Street, Haberfield, N. S. W., Australia; Mr. Debidas Mazumdaz, Calcutta; Kumar Bimal Chandra Sinha, Calcutta; Krishnadas Mazungh Lalia, Digboi, Assaun.
- 3. Bropol Cropp Survey Scheme 1844-45: Considered item Na.[6iii) of the Finance Committee dated 27th April 1844. It was reported that the scheme for a sample survey of crops in Bengal covering both the summer-mouseon and the winter seasons in 1844-45 at an estimated cost of Rs. 4,20,000f. (inclusive of destrates allowance at 1842 rates which however would be modified in case any changes were made in the scale) had been approved by the Government of Bengal. The Hoa. Secretary mentioned that the Government of Bropps had apreed in No. 2071 D.C.S. dated Calcutta the 17th March 1944 to place the part-time sorviers of Nr. N. C. Chattervarti, B.C.S., at the disposal of the Institute as part-time Superimetedent of Statistical Surveys especially for the Field Branch and had permitted him to receive a 6or Rs. 160f. per month out of Institute funds. The Rony, Secretary also stated that certain changes in the number and pay of the field staff had been considered necessary by the Superintendent of Statistical Surveys and certain modifications were proposed to be made within the limits of the grant.

Resolved that the Hon. Secretary be requested to place the revised budget before the Finance Committee in due course, but in the meantime be authorized to make all necessary arrangements for the Bengal Crop Survey Scheme.

A. Bilen Crop Survey S-hems: Considered item No.1(ii) of the Finance Committee dated 27th April 1944. In continuation of conice reports the Hon. Secretary stated that the preparatory work for the Bilan Crop Survey was completed serily in February. He sent 72 of the Bengal field tail for loan to Bilan and 108 mon were recruited locally by the Government of Bilan. The field survey started on the 12th February 1944, and was closed on the 13th April. The Hon. Secretary wents to Patano on the 32th March, and had a long interview with H. E. Mr. Mudio, Governor of Bilan, on the 24th and other officials. He then went to inspect the field work on the 24th and 25th at Bikmungunj in Shahabad district where confessore with statistical and field worker were arranged. In the suphratory curvey was carried out with such great with statistical and field worker were arranged. In the suphratory curvey was carried out with such great uncoss that in consolitation with Vail Bahadur S. P. Sinho, Superintendent of Statistical Syr. 75t, it was decided to organize a full scale prefrical survey in the next blades easen thus stepping up the original programme by 10 months. A debuile sobene at an estimated cost of six lable of rupese (including late. 2, 28, 100 for statistical work for be given as a block great to the Institute) bad been submitted to the Covernment of Hubsel. A neglecture for acquisited for acquisited and gibess.

hat necessary action was being taken on it by Oov ramont. Because of the stepping up of the more workers would have to be accommomated at Giridih; pending acquisition of land ms be necessary to put up additional rooms in houses routed by the Institute.

Resolved that the recommendation of the Pannec Committee be accepted and the Hon. Secretary Se authorized to take all necessary section in the Bilur a op Sumby Scheme and that the proposal to increase accommodation in ranted buildings on the lines suggested by the Hon. Secretary be approved in principle and he be requested to submit a detailed scheme to use Pinance Committee before actual construction work is started.

5. Journal Committee: Resolved that the Journal Committee be reconstituted as follows for one was with powers to co-opt :-

Prof. S. N. Boso, Prof. K. B. Madhava, Dr. H. Sinha, The Hon blo Mr. Justice T. J. Y Noxburgh. Dr. P. V. Sukhatme, Mr. R. C. Bose (Secretary) and Prof. P. C. Mahalanobia (Editor).

6. Finance Committee : Resolved that the Finance Committee be reconstituted as follows for one year with powers to co-opt :-

The President, Treasurer, & Secretary, Prof. K. B. Madhavesand Prof. K. N. Chekravarti (Joint Secritaries), Prof. H. C. Ghosh Mr. B. B. Das Gupta, Mr. N. C. Chalstavarti, Mr. Satyendranath Ray, Mr. Sarrarendranath Roy. (Three to form quorum).

7. Increase in Membership fees and Subscriptions for Sankhya: Considered the question of increasing the subscription for Sankhya and the subscription of members (who are supplied Sankhya free) on account of the abnormal rise in the price of paper, stationery and printing.

Resolved that an increase in the subscription for Sankhya from Rs. 20/- to Rs. 30/- per volume o, 4 perts and Rs. 9/- per single part be approved, and also resolved that the Council recommends to the General Meeting of the Institute that the subscription for members be increased from Rs. 15/- to Rs. 20/per year and the life-membership fee from Rs. 160/- to Rs. 260/-.

8. Provident Fund: Considered item No.VI(3) of the Finance Committee dated 27th April 1944f Considered the changes in the Provident Fund Rules and other recommendations made by Prof. K. B. Madhava which had been approved generally by the Finance Committee.

Resolved that the following changes in the Rules of the Provident Fund be approved and be submitted touble General Meeting of the Council for confirmation. Also resolved that the Finance Committee be requested to make necessary arrangements for the maintenance of the ledger and supervise the general working of the Provident Fund.

	CHANGE	IN THE RULES OF THE PROVIDENT I	מאסי
Rulo No.	As now Existing	Proposed Modification	Brief statement of reason for change.
7(iii)	"Before the 10th day of every month"	"At the end of Financial year"	To avoid unnecessary adjustment on account of members who withdraw in the course of the year, and also to reader the work more practical.
8	"on the same or next working day"	"From time to time"	It is not practicable to do as now required in the Rules and is not in practice being done.
9(i)	"Board of Trustees"	"Council of the Institute"	Associations such as Calcutta Univer- sity Provident Fund, Indian Associa- tion for the Cultivation of Science,
	"All decisions of the Beard of Trustoss"	"their decisions"	Asiatic Society of Bengal, rotain the final authority and vesting of proporty in their respective Coun- cing of M Inagement and not in Trustoes. There are in those bodies no Trusteell.
(ü)	Trustoes at their dis-	"Council of the Institute at their dis- eretion on the advised fine Trusteen"	

PROCEEDINGS OF THE COUNCIL

- 10. At the beginning of the Add the words "with the approval Rule of the Council of the Institute,"
- 19. At the end of the Rule Add the words "which well be offective after the approval of the Commell of the Institute is given across
- 18. At the end of the first
 sentence
 "Affry surplus re- This was an omission in the cristing
 maximing in the Provident Fundation of Rodge,
 the Employer's contributions (Molested to the Fund shall view in the
 Fund, and the Council of the Instite-
- te shall from time to time dotermine and dispose of soch surplus."

 14(i) Under item Period of Substitute the word "Three years or The change will not affect present service: (1), (1) & (3) | (8) so (3) to (6), | (1) to (10), |
- 9. Population Data Committee: Crusidered item Ro.I(iv) of the Finance Committee dated 17th April 1844. At the request of the Governments of India the Hon. Secretary had gone to Debhi at the sed of March for a joint discussion with Nr. S. H. Outmann, I.C.S. (Joint Secretary, Department of Education, Health and Lands), Lt. Col. E. Cotter, I.M.S. (Pubbs Health Commissioner), and Mr. M. W. M. Yesta, I.C.S. who had acted as Carsus Commissioner in 1841. As a result of this discussion the Government of India, was to appoint a Population Data Committee with a view to examine and advise Government and data relating to the growth of population in India. The Hon. Secretary had suggested that the statistical work in the present connerior to done in the Institute for which a suitable block grant would be saccioused by the Government of India, and had also made certain suggestions about associating Prof. Madhava with the work.

mifficiently long.

Resolved that the recommendation of the Finance Committee be accepted and the action taken by the Hon. Secretary in regard to the Population Data Committee be approxed, and be a surface make all necessary arrangements in this connexion is anticipation of anotion by the Council.

 Superintending Statisticien: Considered item No.I(v) of the Finance Committee dated 27th April 1944.

Resolved that the proposal of the Hon. Secretary be approved and that the senior workers in charge of Giridin, Cukutta and Baranagore Branches of the Laboratory be called Superintending Statisticians, and that Ha. 300; per month be anotioned for special allowance of these posts.

11. Bursons: Considered item No.I(vi) of the Finance Committee dated 27th April 1944. For more than two years Prof. Haricharas Obcoh had ungrudgingly undersaken the heavy and onesous task of acrutinizing and passing all bills for payment. The volume of work was however increasing appreciably and the Hon. Secretary suggested that arrangements should be made to have the work done by one or two part-time Bursons for which a part-time allowance might be sanctioned.

Resolved that the recommendation of the Finance Committee to accepted and Rs. 200/- per month be sanctioned for payment of part-time allowance for the scrutiny and payment of bills.

The Council places on record its deep appreciation of the services rendered by Prof. Elaricharan Gheah for more than two years in scrutinizing and passing all bills in a purely honorary capacity.

Resolved that Prof. Maricharan Ohosh and Prof. Khagendranath Chakravarri be requested to act as Burear of the Institute for 1944-46 and they be offered a part-time hoorearium of Ra. 100/- per month for this work and the Secretary to requested to take necessary action in this matter.

19. Fairing Projessor : Considered item No. I(vii) of the Finance Committee dated. 27th April. 1944. Prof. R. A. Pahar had been invited to come to India as Visiting Professor in 1937-38 2nf Prof. H. Hotsling in 1938-40, but the programme was keptin aboyance under war conditions. As a result of informal pistossusions with Prof. A. V. Bill, F. U.S., Servlasy of the Royal Society. London, and Covernment of India piticustions with Secondary thoughthat it would be destrible to review the practice.

Resolved that the proposed be approved and Hon. Secretary be authorized to take necessary solice.

- 13. On the recommendation of the Finance formulates dated 27th April 1944 resolved that a urt to the purpose of taking overfixed from the current account? B' of the Indian Bataistical Institutes with them to the extent of Rz. 25,000/- (Rupes twentyford scounning finity). The Security Account will also be operated by the Hon. Security Prof. Pc. Unklahlanoties. His adults also also the power to withdraw, transfer or Beoglasts made securities as are being deposited in the above mentioned secount from time to time.
- Rules for the Acceptance of Block Grants; Considered item No.L(viii) of the Finance Committee dated the 27th April 1944.

Resolved that the attached rule for the acceptance of block grants to the Institute be approved and be brought into immediate affect and that all authorities proposing to make project grant for the year 1844-45 be informed accordingly.

RULES FOR ACCEPTANCE OF BLOCK GRANTS

- (1) Block Grants for projects or specific coquinies would be accepted by the Indian Statistical Institute on the clear understanding than the actual work would be done on a unitary basis by the staff of the Institute.
- (8) The accounts of the Institute would be audited by a firm of Chartered Accountants and a statisment of accounts certified by the suddrors and endorsed by the Horry. Secretary would be submitted to each sutherity making a block grant and abould be acceptable as fulfilling the educations of the grant in regard to accounts.
- (5) Reparate accounts and wonchers would be maintained for archaeive charges relating to particular projects as far as practicable but all charges for which such exclusive accounts and wonchers cannot be kept will be allocated to different beads by appropriate authorities of the Institute in occumulation with the auditors of the Institute and the decision of the Council of the Indian Statistical Institute in this regard shall be final.
- (4) Since all projects and specific enquiries are undertaken as an integral part of the work of the Institute all stock purchased much as maps, stationery, fundature six would remain the general stock of the Institute and charges on this account would be allocated to different projects or grants as provided in ruls(7).
- (5) Travelling axyonase and other incidental charges would be supported by acclusive vouchers absenver practicable but where journeys are undertaken for the benefit of more than one project suitable allocation of the charge would be made by the appropriate Institute authorities at their discretion.
- (6) As the work of the Institute is carried out on a unitary basis all employees are engaged as Institute staff without specific allocation to particular projects can set but staff here to be maintained and save granted even after the conclusion of particular projects on which they might be working from time to time a consolidated charge of 101 per cent of the amounts paid out as makines to staff be deducted on second of leaves and providest from contributions and ordivided to the Reserve Fands of the Institute.
- (?) In undertaking any project work certain services and facilities in the way of furniture, machines library and stocks have to be piaced at the disposal of each project work as necessary, but detailed allocation of expenditure for such overhead items being not possible a calculated sum to core depreciation and use of machinery, use of library, furniture and value of stock used should be recovered from the grants by recovaing pro rata according to the smounts of the block grants.
- (8) A budget estimate prepared on the above basis shall be furnished to the authority proposing to make any project grant at the time of acceptance of the work but the Finance Committee and the Council of the Institute shall have full power to make necessary respector/prictions within the total grant. As the Institute is not a profit-making association the belance, if any, of any particular grant shall be returned after the accounts of the same are finally adjusted and passed by the Council of the Institute.
- (9) In view of the fact that Prof. P. C. Mahalanobis, Secretary offithe Institute, has expressed a desire of Lanking after projects work in a purely honorary capacity for the present, certain authorities making project graits such as the Government of Beogal and the Government of Bibar have from time to time assutioned contributions to the fundation in lias of the services of Prof. Mahamanobis. The Council of the

PROCEEDINGS OF THE COUNCIL

Institute have decided that all such contributions would be credited to a fund to be called the "Director's Contribution Fund" which would for the present be kept invested in Government seemilies. This fund would be utilized in consultation with Prof. P. C. Mahalarfois for such purposes as the Council may think proper.

15. Director's Contribution Fund: Considered item NaFVI(i) of the Finance Committee dated 27th April 1944. In accordance with resolutions No.3(c) of the Cauncil lated 21st February 1943 considered the following statement relating to the donations received from Profit and Mrs. P. C. Mahalanobis and contributions received in cash from different authorities in Besu of the services rendered by Prof. P. C. Mahalanobis in connection with different projects,

Donations in cash In lieu of Prof. Mahalanobis's bonorary services

			Total
	Ra. 4. 7.	Rs. A. P.	Ra L. P.
1932-33	189 0 0		189 0 0
1933-34	800 0 0		600 0 0
1934-35	000 U D		600 0 0
1936-37	3,452 11 9		3,482 11 9
1939-40		2,000 0 0	2,000 0 0
1940-41		1,200 0 0	1,200 0 0
1942-43	727 5 0	11,000 0 0	11,727 6 0
1943-44		20,166 11 0	20,168 11 0
Total	5,599 0 9	34,380 11 0	39.985 11 9

Received that the above statements be published as an appendix to the accounts. On the recommendation of the Finance Committoe also resolved that (e) the whole of the above amount be invested in Government scentifies for the present; (b) a separate account to be called the "Director's Contribution Final" be maintained for the above fund; and (e) in accordance with the recolation of the Council untel "1st February 1944 expenditure out of this fund be incurred in commitation with Prof. P. C.

16. Capital Fund: Considered item No.VII(2) of the Finance Committee dated 27th April 1944.

Resolved that the recommendation of the Finance Committee be accepted and (a) receipts of account of donations, membership fee, leave and provident fund contributions and sundry receipts of the nature of capital grants (other than additions to the Director's contribution Fund) be treated as a capital fund; (b) a separate account be maintained for the same is such form as may be considered suitable by the Auditors of the Institute; and (e) that advances made to the Tenseral Fund of the Institute out of the above receipts be restored at the earliest opportunity and the total amount be invested in Government securities as early as possible.

 Budget Estimate for 1944-45: Considered the draft budget estimate for the year 1944-45 as propared by the Finance Committee.

Resolved that the attached budget estimate for the year 1944-46 as modified by discussions in the Council be passed.

18. The Hon. Secretary placed before the meeting the draft Annual Report.

Resolved that the draft Annual Report be forwarded to the Annual General Meeting.

10. The Hon. Secretary placed before the Council the Audited Accounts for 1943-44 which had been considered by the Finance Committee on the 27th April 1844 and also statements relating to project and other funds.

Resolved that the Audited Accounts and statements relating to funds be forwarded to the Annual General Mooting.

20. Institute Examinations # (i) To sult the convenience of the candidates and the Board of Examiners, resolved that the Institute Examinations be postposed till July 1944 and the Hon. Secretary be authorized to fix the dates.

(II) Considered a letter dated 1st March 1944 from Mr. P. Satagopan, Labour Department, Simle, aggesting that since there is a Stanoh of the Institute at Delhi arrangements be made for holding Institute Latenizations in Statistics at Delhi arrangements.

Rasolved that the proposal to hold Institute examinations in Delhi and cotaide centres be approved in principle provided monosary facilities are greatable and that the Hon. Secretary be authorized to make such arrangements in this matter as may be jound possible.

31. Indian Science Congress Association: Read a letter dated 17th March 1944 from the General Secretary, Indian Science Congress Association requesting that delegates be appointed to represent the Institutes at the next seeds of the Indiagethere Congress to be bold at Nappur in Javoury 1945.

Resolved that the Hon. Secretary be requested to select the dalegates in consultation with the President at the proper time.

Contribution: The Hon. Secretary placed before the meeting G.O. No.1830R dated 19th
April 1944 from the Government of Blaze searctioning a contribution of Re. 15,000 - annually to the Indian
Statistical Institute with affect from 15th November 1943 satisf surface orders to lieu of the services of Prof.
P. O. Mahalanobia in connexion with the Blaze Toop Survey.

Recorded

- Resignation of Asst. Secretary: Resolved that the resignation of Dr. Atindranath Boss from the
 post of Assistant Secretary be accepted with effect from the date of expiry of his leave.
- 24. Appointment of Asst. Secretary: On the recommendation of the Finance Committee resolved that the appointment of Mr. M. K. Dutt (a Burma Government servant on surplus leave on half pay) as Assistant Secretary be extended for a further period of one year on the present terms with effect from 1st Anni 1944.
- 25. Leave: Considered the application dated 25th March 1944 from Mr. K. Raghavan Nair for extension of leave till 30th June 1944.

Resolved in modification of Council Resolution No. 7 dated 9th February 1944 that Mr. K. Raghavan Nair be granted leave without pay till 30th June 1944.

Indian Statistical Institute: Budget Estimate for the 1944-45

RECEDER			-	EXPENDITURE			
August 18				MAT ENDITORS			
Opening Balance	49,036	13	10	Salary of Statistical & Research Staff	2,83,000	n	٨
Grant from the Government				Director's Contributions Fund	_,00,000	۰	٠
of India	51,000	0	0	(as per contra)	30,000	0	0
Grant from the Government				Establishment & Travelling	20,000	0	0
Of India for Sankhya	2,000			•			
Membership Subscr ptions	1,000			Books & Journals	12,000	0	0
Miscellaneous Receipte	1,283	2	2	Laboratory Equipments	7,500	0	0
Government of Bengal:							
Bengal Crop Survey	4,07,500		0				0
B. H. H. Flushing Scheme	10,000	0	0		23,000		
				Postago, Printing & Contingen.	15,000	0	0
Government of Bihar:							
Bihar Crop Survey	2,48,200	0	0	Other Expenses	30,000		8
Contributions in lieu of Prof.				Indian Statistical Conference	1,000		0
P. C. Mahalanobia Service	•			Evacuation & Emergency Arrangement	rata 4000	0	θ
Bengal Crop Survey 12,500				Grants for special activities at			
				Giridih Office	5,000		0
B.H.H. Crop Cutting 2,500				Supernumerary Post etc.	3,000		
Bihar Crop Survey 15,000	30,000	0	0		2,000		
				Contributions to Sankhya	1.500	0	0
				Giridin Housing Scheme	30,000		
				Closing Balance in Bank and Cash	45,000	0	0
				Closing Balance in Government			
				Securities	30,000	0	0
	8,00,000	0	0	•	8,00,000	0	0
B. Das Guppa				P. C.	Marrie	108	4
Ohaiynan.				В	ny. Secret	27	

PROCEEDINGS OF THE ANNUAL GENERAL MEETING DATED 29th APRIL, 1944.

The Annual Constal Meeting of the Indian Statistics! Institute was hold at 4 p.m. on Saturday, the 19th April, 1944 in the Statistical Laboratory, Presidency College, Calcutta.

The Hon. Secretary reported that a message had been everyed from the house of Mr. N. R. Sarker, Presides, stating that Mr. Sarker had become suddenly indeposed and regretted his inability to attend the hiveing.

In the absence of the President, Prof. S. N. Boss, (Dacco University), was voted to the chair.

The following mambers were present :-Mr. K. Bhattacharji .. Statistical section, D.O.M.P's office, Dept. of Supply, Calcutta. Statustical Laboratory, Calcutta. Lecturer, Calcutta University Mrs. G. Bose, B.So. Mr. R. C. Bose, M.A. . . Prof. K. N. Chakravarti, M.Sc. Lecturer, Calcuta University
Presidency College, Calcutin.
Special Officer, Revenue Department, Bengal.
Special Officer, Finance Department, Bengal.
Calcutta University. Prof. K. N. Chakravarti, M.Sc. Mr. N. C. Chakravarti, M.A., B.C.S. Mr. B. D. Dar Gupta, M.A., B.C.S. .. Prof. H. C. Ghosh, M.A., P.R.S. .. Prof. K. B. Madhava, M.A., A.I.A. Mysore University.
Financial Advisor, Department of Civil Supplies, Mr. 8. N. Ray, I.C.S. .. Bengal.
Lecturer, Calcutta University.
Statistical Officer, E. I. Rty. Mr. S. N. Roy, M.Sc. Mr. Sadasiv Sen Gupta, M.Sc., B.Sc. (Lond.) Dr. H. C. Sinha, M.Sc., Ph.D. Calcuta Priversity. Prf. P. C. Mahalanobia Honorary Secretary.

 Annual Report and Audited Accounts: The Honorury Secretary placed before the meeting the Annual Report and Audited Accounts for 1813-64 as approved by the Council and meetionad that the Accounts haddeen sudiced by Meers: P. C. Mandi & Co., Chartared Accountants.

Resolved that the Annual Report and Audited Accounts (annexed) for 1943-44 be adopted.

Proposed by Mr. B. B. Das Gupta Seconded by Mr. Haricharan Ohosh

(Carried unanimously).

2. Election of Office-Bearers and Members of the Council: The Honorary Secretary reported that in accordance with Bye-law 2 for election of office-bearers and members of the Council, commissions for 1944-45 approved by the Council of the Institute had been circulated together with the notice of the Annual General Meeting on the 6th April, 1944. As the number of nominations was in no case in axons of the number of vacancies, no voting was necessary and no voting paper was therefore issued.

The election of the following office-bearers and members of the Council as circulated was then annuoused from the chair.

Provident								
Mr. N. R. Sarker,			••	Calcusta.				
Vice-Presidente								
Dr. P. N. Banerjee,	M.A., D.80., 1	M.L.A. (Cent	ral).	Colcutta				
Mr. E. T. Cordwell.			"	Mesers. Bird & Co., Calcutta.				
Sir C. D. Deshmukh,				Governor, Reserve Bank of India.				
Bir A. H. Chuznavi,		Cantral).						
Dr. J. B. Grant, M.I.				Director, All-India Institute of Hygiene and Public Health, Caloutte.				
Dr. S. P. Mookerjee, M. Bar-at-lay		.A., D.Litt.,	••	Coloutta.				
Mr. Chand Mull Raig	baria			Mica Murchant, Giridik.				
Sir Shri Ram, Kt.,				Delhi Cloth and General Mills, Delhi.				
Sir C. V. Raman, D.8c	. F.R.A. N.L.			Indian Institute of Science, Bangalore,				
The Hon'ble Mr. Justin				• • •				
	, C.I.R., I.C.			Judge, Caloutta High Court.				
The Hon'ble Mr. H. S.				Minister in charge of Civil Supplies, Generomous of Bengal.				

Dr. Satya Churn Law, M.A., B.L., Ph.D., F.Z.S., M.B.O.U.

Beardary

Prof. P. O. Mahalanobis, Statistical Laboratory Calculla.

Loint Beardonies

Mr. Raj Chandra Bose, M.A., Prof. K. N. Chakravarti, M.Sc., Lectures, Calcutta University. .. Presidency College, Calcutta. ..

Members of the Council for 1944-45

Mr. B. P. Adarkar, M.A., Mrs. C. Bose, B.Sc., (London), Dr. O. S. Bose, M.D., D.Sc., Prof. S. N. Bose, M.Sc., University of Allahabad. Statistical Laboratory, Calcutta. Head of Department of Psychology, Calcutta Uniowsity. .. University of Dacca.
Director. Indian Tea Association, Tocklai, Assam. Mr. P. H. Carpenter, O.B.E., F.I.C., F.C.S., ... Special Officer, Revenue Department, Bengal. Special Officer, Finance Department, Bengal. Mr. Nihar Chandra Chakravarti, M.A., Mr. B. B. Das Gupts, M.A.,
Prof. H. C. Ghosh, M.A., P.R.S.,
Mr. J. V. Joshi, M.A., O.B.E.,
Prof. F. W. Lavi, Dr. Phil. Nat., Special Officer, Financi Department, Bengal. University of Colculta. Senier Economies, Reserve Bank of India, Bombay. University of Calculta. Wilson College, Bombay. Prof. John Maclean, Pro. John Macista,
Mr. A. C. Mukherji, M.A., Dip. de Stativician, F.S.
Mr. K. R. Nair, M.A., M.S.,
Dr. K. C. K. E. Raja, L.R.C.P. & S., D.P.H.,
Deputy Public Health Communioner with Face Department, Government of India.

Deputy Public Health Commissioner with the D.T.M. & H., Dr. V. K. R. V. Rao, M.A., Ph.D., Government of India, Delhi. University of Delhi.
Financial Adviser, Department of Civil Supplies,

Mr. S. N. Ray, B.A. (Cantab), LC.S. •• Bangal.

Securdorated.

Lecturer, Calcutta Unicerrity. .. Lecturer, Colcutta University.

Mr. B. Ranga Reddy.
Mr. Samarsodra Nath Roy, M.Sc., ...
Dr. H. C. Sinha, M.Sc., Ph.D.,
Mr. P. V. Sukhatme, Ph.D., D.Sc., Statistician, Imperial Council of Agricultural Research, Delhi.

3. Recommendations from the Council: Considered the recommendation of the Council that "in view of the abnormal rise in the price of paper and stationery and printing, the mombership fee be raised to Rs. 20 per annum for ordinary members, Rs. 250 for life members, and the subscription for Sankhya to Ra. 30 per volume of four parts and Rs. 9 for each part with effect from April, 1944".

Resolved that the proposal be approved.

Proposed by Dr. Haris Chandra Sinha Seconded by Mr. Samarendra Nath Roy

(Carried unanimously).

4. Provident Fund Rules as recommended by the Council (printed on pp.17-18) be confirmed. Proposed by: Prof. K. B. Madhava

Seconded by : Mr. B. B. Das Gupta 5. Appointment of Auditors: Resolved that Means. P. C. Nandi & Co., Chartered Accountants be appointed auditors for the year 1944-45 on an honorarium of Ra. 600. (3 to 4 quorum)

Proposed by Mr. N. C. Chakravarti Seconded by Mr. S. Sen Gupta

(Carried unanimously).

- 6. Appointment of Committees: Resolved that as recommended by the Council the following Committees be reconstituted as follows :
- (i) Journal Committee (1 year): Prof. S. N. Bose, Prof. K. B. Madhava, Dr. H. Sinha, The Hon'ble Mr. Justice T. J. Y. Roxburgh, Dr. P. V. Sukhatme, Mr. R. C. Bose, (Secretary), and Prof. P. C. Mahalanobia, (Editor).
- (ii) Finance Committee (1 year): The President, Treasurer and Secretary, Prof. K. B. Madhava and Prof. K. N. Chakravarti (Joint Secretarine) Mr. B. B. Das Gupta, Mr. N. C. Chakravarti, Prof. H. C. Ghose, Mr. Satvendra Nath Ray and Mr. Samarendra Nath Roy.

Proposed by Mrs. Chameli Boso Seconded by Mr. H. G. Bhattachardi

(Carried yearsinously).

S. N. BORR Chairman P. C. MARALANORES Honorary Secretory.