

## **REVIEW OF THE ACTIVITIES OF THE INDIAN SOCIETY OF AGRICULTURAL STATISTICS FOR THE YEAR 1983.**

The Indian Society of Agricultural Statistics founded on 3rd January, 1947 is a scientific body for promoting and undertaking research in statistics and for its application to agriculture, animal husbandry agricultural economics and allied fields. Late Dr. Rajendra Prasad, the then Minister of food and Agriculture, Govt. of India was its founder President and he continued to guide the Society for 16 years. The Society has attained its present status due to the untiring efforts and guidance of its Presidents in the past and present and particularly of the eminent statisticians Dr. P.V. Sukhatme and late Dr. V.G. Panse. We are fortunate that Dr. O.P. Gautam, President of the Society, in spite of his heavy engagement, is present here to give encouragement and advice to the delegates. Dr. P.V. Sukhatme, Executive President of the Society, would have very much liked to be present here but was advised by his doctor not to undertake the journey,

The Society organises annually a conference and symposia in different parts of the country which provide a wider platform for exchange of ideas, expansion of activities and for creating greater public interest. It brings out a Journal, one volume consisting of 3 issues per year, which serves as a media for disseminating research findings on agricultural statistics and allied fields. The Society publishes adhoc publications and bulletins which help the research workers and students in their work. It has set up a Research Unit to undertake research on specific problems of current interest in accordance with the guidance provided by a Research Direction Committee. A lecture is organised during the Conference to perpetuate the memory of the founder President late Dr Rajendra Prasad. Eminent Scientists are generally requested to deliver this memorial lecture. The topics of two symposia organised during each Conference are generally of current national interest and chosen depending on the Venue of the Conference.

The activities of the Society, during the year under report are as follows :

The membership of the Society, which is drawn from all parts of India as well as from abroad, during the year was :

1. Permanent Institutional members	18
2. Life Members	235
3. Institutional Members	11
4. Ordinary Members	104
5. Student Members	10

In addition to regular members, the Society has a number of institutional subscribers to its Journal in India and abroad. The number of subscribers during the year was :

1. Indian	199
2. Foreign	67

Thus the total number of members, and subscribers during the year was 644.

One of the important activities of the Society is the publication of its Journal. With the publication of Vol. 35 (No. 1 and 2), the Society has maintained its time schedule. The Hindi Supplement continues to be a special feature of the Journal. The high Standard of the Journal has been maintained due to sincere efforts of the Editorial Board and of the referees. The Society is thankful to them for their keen interest in the activities of the Society particularly in the publication of its Journal. The book 'Sampling Theory of Surveys with Application' by P.V. and B.V. Sukhatme is an important publication of the Society. This book is in great demand by the students and research workers. All the copies of its second edition have been sold and the revised edition is in press. Another important publication 'Statistical Methods in Animal Sciences' by V.N. Amble brought out by the Society is extremely useful for the research workers in animal sciences. The society will be bringing out shortly another publication to felicitate Dr. P.V. Sukhatme containing a number of invited articles from India and abroad.

The Research Unit of the Society is at present engaged in the project 'Measurement of growth and instability in sugar production' which is considered to be of current interest for the policy makers, producers as well as for the common man. In order to search for

the means of reducing instability, it is essential to measure quantitatively the extent of instability, and its variation in different States. The study covers the period of 14 years, 1967-68 to 1980-81 and for the 8 states contributing significantly to the production of sugar. During this period the production of sugar in the country as a whole has nearly doubled. Since it is hardly possible to isolate and measure seasonal or cyclic variation with such small time series data, the study is confined to work out the variation from year to year and to partition it into components of trend and residual variation. The exponential trend was fitted and the magnitude of instability was measured by the co-efficient of variation (c.v.) around the trend line. The overall compound growth rate of sugar production was found to be 47 per cent per annum and highly significant at 1 per cent level of significance. Five States viz. Gujarat, Maharashtra, Karnataka, Haryana and Tamil Nadu had positive and significant growth rates. Out of the remaining three States, U.P. and A.P. showed non-significant positive growth rates. Bihar was the only State having negative non-significant growth rate. Gujarat registered the maximum growth rate of 14 per cent annum. It was observed that at All India level the C. V. of sugar production was about 25 per cent which reduced to 19 per cent when measured around the trend line, giving the measure of instability. States ranked according to stability i.e. in ascending order of the C.V. (R) are Maharashtra, A.P., Tamil Nadu, U.P., Haryana, Gujarat, Bihar and Karnataka. It is inferred that States with higher level of production have lower instability in the sense of lower percentage variation from year to year. In addition to the above study, the society has also taken up a Project on DHTP Data of the Council of Scientific and Industrial Research.

The problem of finance for Scientific activities and printing of its Journal and other adhoc publications could be solved to a certain extent through grants-in-aid received from the Ministry of Agriculture, Govt. of India and Indian Council of Agricultural Research. The Society wishes to acknowledge gratefully the financial assistance received from them during the year under report.

The Society continues to be a Member of the International Statistical Institute and also of the Indian Association for Social Science Institutions. It had also been affiliated to the Federation of Indian Societies of Agricultural Sciences & Technology (FISAST) which was established last year, You will be glad to know that the Secretary of the Society, Dr. Prem Narain has been elected as the first Secretary General of the Federation. As per invitation of the

International Statistical Institute, the Secretary of the Society participated in the Conference at Madrid (Spain) during September, 1983.

The last (36th) Annual Conference of the Society was held from 17th to 20th January, 1983 at Rahuri under the auspices of Mahatma Phule Agricultural University, Maharashtra. Dr. D.K. Salunkhe, Vice-Chancellor of the University welcomed the delegates and inaugurated the Conference. The Presidential remarks were made by Prof. P.V. Sukhatme. The report on the activities of the Society was presented by Prof. Prem Narain, Secretary of the Society. The President elect, Dr. B.P., Adhikari Director, Indian Statistical Institute, Calcutta, delivered the Technical Address on 'Statistics for the Indian Agrarian System. Two Symposia (i) 'Crop weather relationship with rainfed agriculture' and (ii) 'Statistical Aspect of Post-Harvest Technology' were organised during the Conference. Dr. D.G. Bhapker, Director of Research, Mahatma Phule Agricultural University, presided over the first symposium. Prof. D.K. Salunkhe, Vice-Chancellor who presided over the second symposium in the beginning had some other urgent work and requested Dr. Prem Narain, Director, I.A.S.R.I. to preside over the later part of the Session. Dr. Rajendra Prasad Memorial Lecture' entitled 'Indian Agriculture-Retrospect and Prospects' was delivered by Prof. P.K. Bose, Centenary Professor of the University, College of Science, Calcutta and the lecture was presided over by Shri A.P. Shinde. Shri Venkat Subbeya, Minister of State for Home Affairs, Government of India who was present during the period of memorial lecture also spoke on the occasion. There were as many as 93 technical papers received for presentation at the Conference. These were organised by conducting two concurrent sessions on different days. These sessions were presided over by Prof R.M. Patel, Dr. O.P. Bagai and Dr. S.G. Prabhu-Ajgaonkar. A Special lecture was delivered by Prof. M.L. Tiku of McMaster University, Canada on the subject 'Exact Efficiency of some Robust estimators in Sample Survey'. The Society is grateful to all of them for sparing their valuable time and making the Conference a great success.

The Society provided financial assistance to deserving research workers and students to enable them to attend the Society's Conference at Rahuri for presenting their papers.

The railway authorities, as in the past, gave travel concessions to the members of the Society and delegates to the 36th Annual Conference to enable them to attend the Conference at Rahuri. The Society records its grateful thanks to the railway authorities.

The Accounts of the Society for the year ending 31st March 1983 were audited by a professional auditor appointed by the Society and these are attached.

The work of the Society during the year was made possible through the active help of the members of the Executive Council of the Society, the Editorial Board, and Research Direction Committee. The burden of the entire secretarial of the Society has been willingly borne by my colleagues, Shri S.D. Bokil, Dr. K.C. Raut and Dr. Shivtar Singh, Hony. Joint Secretaries and Dr. B.B.P.S. Goel, Honyrary Treasurer of the Society.

In the end I wish to thank the staff of the Society for their devoted work.

PREM NARAIN  
*Secretary*  
*ISAS*

INDIAN SOCIETY AGRICULTURAL STATISTICS, PUSA, NEW DELHI  
Balance Sheet as on 31st March, 1983

<i>Liabilities</i>	<i>Current Year</i>		<i>Assets</i>	<i>Current Year</i>	
	Rs.	Rs.		Rs.	Rs.
<i>General Reserve</i>			<i>Cash and Bank Balances</i>		
Balance as per last B/Sheet	1,56,424.83		Cash in Hand	25.11	
<i>Add : Excess of Income over Expenditure</i>	1,078.45		State Bank of India, New Delhi (Current Account)	1,077.01	
	—————	1,57,503.28	State Bank of India, New Delhi (Saving Account)	724.95	
<i>Publication Fund</i>		30,819.81	Syndicate Bank (Pusa) New Delhi (Saving Bank)	14,476.67	
<i>Membership Fees Received in Advance</i>	—		Syndicate Bank (Pusa) New Delhi (Current Account)	3,895.77	20,200.51
For 1982-83	—				
For 1983-84	1,286.00	1,286.00	<i>Fixed Deposits</i>		
<i>Capital Reserve Fund</i>			S.B.I., Parliament Street, New Delhi	1,01,915.44	
(Life Membership Fee)			Syndicate Bank, Pusa, New Delhi	10,000.00	
Balance as per last B/Sheet	38,560.00		With other Companies (As per list)	50,000.00	1,61,915.44
<i>Addition during the year</i>			<i>Membership Fees</i>		
(i) from Individuals	4,120.00		Due for 1980-81	150.00	
(ii) From Institutions	8,000.00	50,680.00	<i>Less : Recovered during the year</i>	95.00	
	—————			—————	

<i>Advance Subscription for Journal</i>		<i>Less : Written off</i>	55.00	
Vol. 35	3,582.00		55.00	
<i>Expenses Payable</i>		<i>Add : Due for 1981-82</i>	2,010.00	
Audit Fees	450.00	<i>Less : Recovered during the year</i>	240.00	
			<hr/>	
		<i>Less : Written off</i>	1,770.00	
			330.00	
			<hr/>	
		<i>Add : Due for 1982-83</i>	1,440.00	
		<i>Stock in Hand</i>	2,360.00	3,800.00
		Journals	14,863.00	
		Symposium	1.00	
		Published Books	13,326.50	28,190.50
		<i>Deficiency Account (Journal)</i>	<hr/>	
		Balance as per last B/Sheet	11,447.12	
		<i>Less: Profit for the current year</i>	(34.05)	
			<hr/>	
		<i>Less : Grant from I.C.A.R.</i>	11,213.07	
			5,000.00	6,213.07
		<i>Advance to Research Unit</i>	<hr/>	
		( <i>Advance to R.K. Printers</i>		11,002.12
		for Sampling Book New Edition)		13,000.00
				<hr/>
	<u>2,44,321.44</u>			<u>2,44,321.64</u>

Subject to our report of even date

Place : 64, Regal Buildings,  
New Delhi-110 001  
Dated : 16th July, 1983

For C.S. Bhatnagar & Co.,  
Sd/-  
(G.S. BHATNAGAR)  
Chartered Accountant

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS, PUSA, NEW DELHI**  
**Income and Expenditure Account for the year ending 31st March, 1983**

<i>Particulars</i>	<i>Current Year</i>	<i>Particulars</i>	<i>Current Year</i>
<i>To Salaries and Honorariums</i>	4,980.00	<i>By Ordinary Membership Fees and Registration Fees</i>	5,785.00
<i>Less : 3/4th transferred to Journal A/c.</i>	3,735.00		
	1,245.00	<i>By Interest on Savings Bank Account</i>	760.74
<i>To Other Expenses</i>		<i>By Interest on Fixed Deposits</i>	9,060.56
<i>Postage</i>	1,814.00	<i>By Sale of Symposium Volume</i>	—
<i>Printing and Stationery</i>	770.14	<i>By Profit on published books</i>	798.69
<i>Bank Charges</i>	114.45	<i>By Grant in Aid from I.C.A.R.</i>	5,000.00
<i>Conveyance</i>	283.95		
<i>General Charges</i>	229.05	<i>(To meet Deficit in Conference in previous year (36th Annual Conference))</i>	
<i>Audit Fees</i>	450.00		
<i>Entertainment</i>	169.35		
	3,830.94		
<i>Less : 3/4th transferred to Journal A/c.</i>	2,873.20		
	957.74		



To Expenses on Dr. Panse's Memorial Lecture	—	
To Annual Conference Expenses	13,322.65	
To Membership Fees of International Statistical Institute	976.25	
To Registration Fees to International Statistical Institute	612.00	
To Membership Fees for Indian Association of Social Sciences Institution	200 00	
To Membership Fees written off	385.00	
To Dr. Daroga Singh Felicitation A/c.	—	
To Legal Expenses (For Income tax Exemption Certificate)	1,500.00	
To Dr. M.S. Swaminathan Felicitation A/c.	1,127.90	
To Excess of Income over Expenditure	1,078.45	
	<u>21,404.99</u>	<u>21,404.99</u>

Place : 64, Regal Buildings.  
New Delhi-110 001  
Dated : 16th July, 1983

Subject to our Report of even date.  
For C.S. BHATNAGAR & Co.

Sd/-  
(G.S. BHATNAGAR)  
Chartered Accountant

INDIAN SOCIETY OF AGRICULTURAL STATISTICS, PUSA, NEW DELHI  
Balance Sheet (research unit) as on 31st March, 1983

<i>Liabilities</i>	<i>Current Year</i>	<i>Assets</i>	<i>Current Year</i>
<i>Capital Reserve</i>		<i>Fixed Assets</i>	
Balance as per last B/Sheet	11,061.75	Balance as per last B/S heet	12,365.56
Amount transferred to Deficiency (As per contra) A/c.	11,061.75	Add : Additions during the year	649.10
	<hr/>		<hr/>
Audit Fees payable	450.00		13,014.66
Salary Payable	1,087.55	Less : Depreciation W/off	1,420.00
P.F.A. (Shri Bhawani Dutt)	2,809.55		<hr/>
Less : Loan against P.F.	2,100.00	Deposit with Post Office (P.F. A/c.)	709.55
	<hr/>	Advance to Staff (Sh. Bhawani Dutt)	<hr/>
	709.55	Deficiency A/c.	—
Indian Society of Agricultural Statistics	11,002.12	Balance as per last B/Sheet	446.84
		Add : Deficit for the year	11,559.92
			<hr/>
			12,006.76
		Less : Amount transferred from Capital Reserve (As per contra)	11,061.75
			<hr/>
	<hr/>		945.01
	13,249.22		<hr/>
			13,249.22

INDIAN SOCIETY OF AGRICULTURAL STATISTICS PUSA, NEW DELHI  
 Receipt and Payment Account (research unit) for the year ending 31-3-1983

REVIEW OF THE ACTIVITIES OF THE ISAS

<i>Particulars</i>	<i>Current Year</i>	<i>Particulars</i>	<i>Current Year</i>
To Establishment Charges	41,713.90	By Grant in Aid from Govt. of India	40,000.00
To General Charges	1,610.85	Ministry of Agriculture and irrigation	
To Stationery and Printing	849.00	Less : Utilized for Capital Expenditure	—
To Audit Fees	450.00		40,000.00
To Employers Contribution to P.F.	165.00		
To Telephone Expenses	1,462.40	By Sale of Old Typewriter	—
To Travelling and Conveyance	736.75	By Deficiency for the year	11,559.92
To Liveries to Staff	243.32		
To Postage	604.70		
To Printing of Reseach Unit Papers	2,304.00		
To Conference Expenses	—		
To Depreciation W/off	1,420.00		
	51,559.92		51,559.92

Place : 64 Regal Buildings,  
 New Delhi-110001  
 Dated: 16th July, 1983

Subject to our Report of even date.  
 For C.S BHATNAGAR & Co.,  
 Sd/-  
 (G.S. BHATNAGAR)  
 Chartered Accountant

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS, PUSA, NEW DELHI**  
**Income and Expenditure Account (Research Unit) for the year ending 31st March, 1983**

<i>Receipt</i>	<i>Current Year</i>	<i>Payments</i>	<i>Current Year</i>
By Grant in Aid received from the Govt. of India	40,000.00	<i>To Revenue Expenditure</i>	
		Salaries	40,626.35
By Indian Society of Agricultural Statistics	9,561.47	General Charges	1,610.85
		Stationery and Printing	849.00
By Recovery of Loan from Sh. Bhawani Dutt	140.00	Audit Fees	450.00
		Telephone charges	1,462.40
By Sale of Old Typewriter	—	Travelling and Conveyance	736.75
		Salaries to Staff	243.32
		Postage	604.70
		Printing of Research Unit Papers	2,304.00
		To Employees Contribution to P.F. Deposited in P.O.	165.00
		To Advance to Staff (Sh. Bhawani Dutt Peon)	—
		To Conference Expenses	—
		To Capital Expenditure	649.10
	<u>49,701.47</u>		<u>49,701.47</u>

Place : 64, Regal Buildings,  
 New Delhi-110001  
 Dated : 16th July, 1983

Subject to our Report of even date.  
 For C.S. BHATNAGAR & Co.,  
 Sd/-  
 (G.S. BHATNAGAR)  
 Chartered Accountant

INDIAN SOCIETY OF AGRICULTURAL STATISTICS, PUSA, NEW DELHI

Income and Expenditure Account (Journal) for the year ending 31st March, 1983

<i>Particulars</i>	<i>Current Year</i>	<i>Particulars</i>	<i>Current Year</i>
To Opening Stock	10,457.35	By Sale and Subscription of Current Volume (34)	19,878.25
To Printing Charges (Vol. 34)	15,226.40	By Sale of Back Volumes	4,450.75
To Printing Charges of Re-prints	2,254.00	By Sale of Re-prints	447.80
To Staff Salaries	3,735.00	By Closing Stock	14,863.00
To other Expenses	2,873.20	By Net Loss Transferred to B/Sheet	—
To Postage Expenses	2,959.80		
To Printing and Cost of Envelops	1,900.00		
By Excess of Income over Expenditure C/O B/Sheet	234.05		
	<u>39,639.80</u>		<u>39,639.80</u>

Place : 64, Regal Buildings  
New Delhi-110 001  
Dated : 16th July, 1983.

Subject to our Report of even date  
For, C.S. BHATNAGAR & Co.

Sd/-  
(G.S. BHATNAGAR)  
Chartered Accountant

## International Statistical Institute

# ANNOUNCEMENT

### *Competition for Young Statisticians from Developing Countries*

The International Statistical Institute (ISI) announces the Second Competition among young statisticians from developing countries who are invited to submit a paper on any topic within the broad field of statistics, for possible presentation at the Centenary Session of ISI to be held in Amsterdam, Netherlands, August 12-22, 1985.

Participation in the competition is open to nationals of developing countries who are living in a developing country, and who will not be older than 32 years of age in 1985.

Paper submitted must be unpublished, original works which may include university theses.

The papers submitted will be examined by an international Jury of distinguished statisticians who are to select the three best papers. Their decision will be final.

The authors of the winning papers will be invited to present personally their papers at the Centenary Session of ISI in Amsterdam with all expenses paid (i.e. round trip airline ticket from his/her place of residence to Amsterdam plus a lump sum to cover living expenses).

Manuscripts should be submitted in time to reach the ISI not later than November 1, 1984.

The rules governing the preparation of papers, application forms and full details are available on request from the ISI Permanent Office to which interested individuals should write for further information. The address is as follows :

THE DIRECTOR

PERMANENT OFFICE

INTERNATIONAL STATISTICAL INSTITUTE

428 PRINSES BEATRIXLAAN

2270 AZ VOORBURG

THE NETHERLANDS.