



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search

<http://ageconsearch.umn.edu>

aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

Vol XLII
No. 1

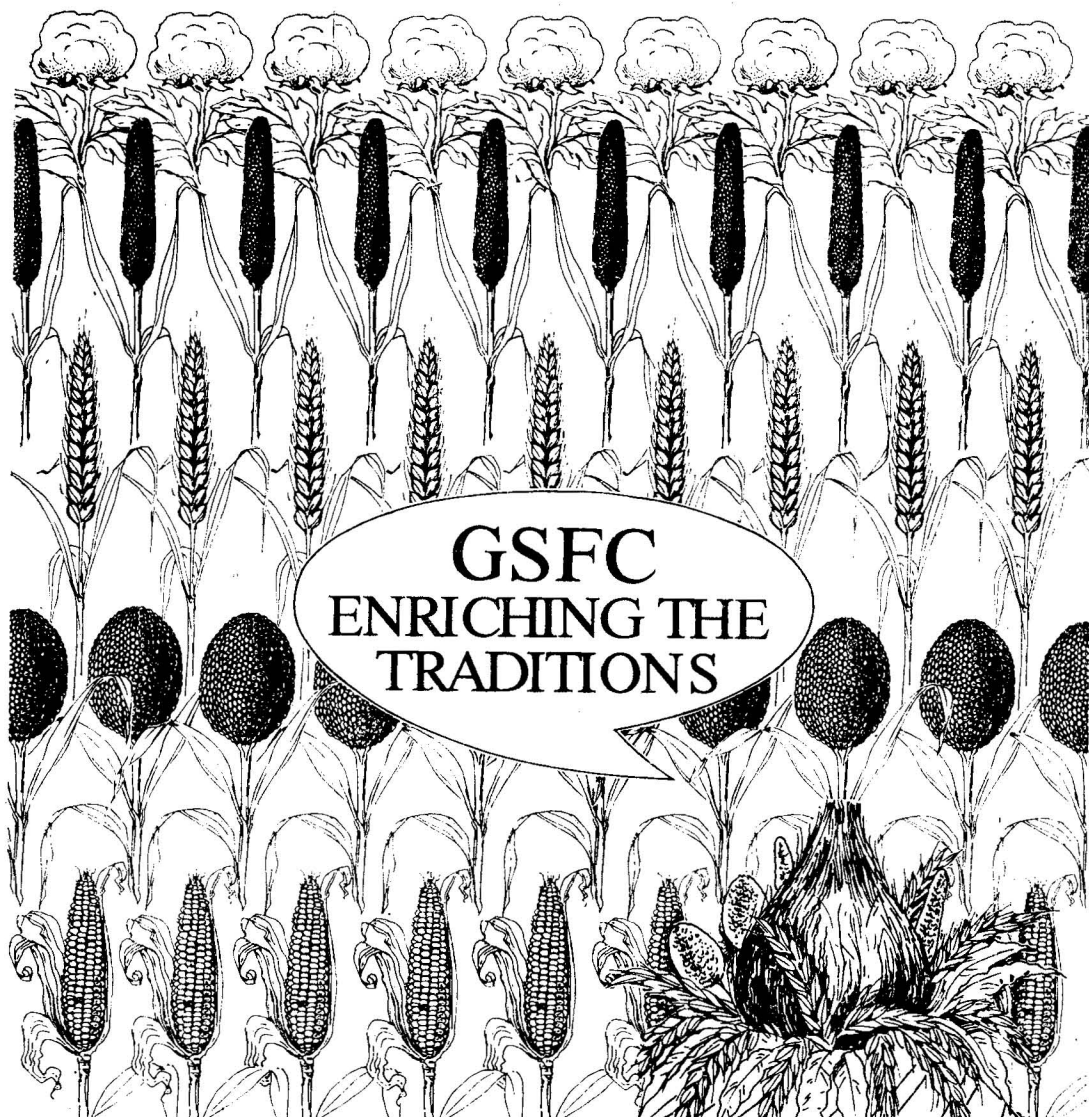
ISSN 0019-5014

JANUARY-
MARCH
1987

INDIAN JOURNAL OF AGRICULTURAL ECONOMICS



INDIAN SOCIETY OF
AGRICULTURAL ECONOMICS,
BOMBAY



**GSFC
ENRICHING THE
TRADITIONS**

Farmers bound to the age-old traditions, practising the primitive methods of agriculture and toiling without fruits. That was the scene way back 25 years ago when GSFC was established. GSFC took up the challenge of a stupendous task of transformation.

Of the country's agricultural scene and the farmers' life. It carried the scientific and progressive methods of farming to the farmers' door-steps. Offered them a complete range of agricultural services and long term benefits. Touching every aspect of their life. Making agriculture a business proposition. For bountiful crops, higher income and better living. Renewing the farmers' faith in Mother Earth. Enriching the traditions of growth.

And shaping a progressive rural society. For over two and a half decades. Committed to continue it endlessly.



GSFC - Basic to India's Progress.



Gujarat State Fertilizers Company Ltd. P.O. Fertilizernagar 391 750, Dist. Vadodara.

*For a wider understanding of labour and social policy and administration
throughout the world subscribe to the*

INTERNATIONAL LABOUR REVIEW

The oldest international journal publishing articles, comparative studies and original research reports on employment and unemployment, inflation and living standards, wages and other conditions of work, industrial relations, workers' participation and collective bargaining, occupational safety and health, etc., by scholars and practitioners of outstanding merit from all countries as well as by the international staff of the ILO.

Recent articles include

- * Banking for the rural poor: Lessons from some innovative saving and credit schemes *P. Egger*
- * Evolving patterns of enterprise organisation: The move towards greater flexibility *B. Gustavsen*
- * Discipline at the workplace: A comparative study of law and practice. 2: Procedure *M. E. Banderet*
- * Converting the workforce: Defence industry conversion in the industrialised countries *N. Ball*
- * The social impact of micro-electronics in Japan *M. Mine*

Annual subscription (1987): Sw. frs. 60; US \$34.20

INTERNATIONAL LABOUR OFFICE

7, Sardar Patel Marg, Chanakyapuri,
New Delhi-21.

ARTHA VIJNANA

*Journal of the Gokhale Institute of Politics and Economics
Pune 411 004*

Vol. 28	No. 4	December 1986
---------	-------	---------------

ARTICLES

CONTENTS

- | | |
|--|---|
| The Divisia Method of Tax Elasticity Estimation | <i>Ganti Subrahmanyam
and Donta Balaiah</i> |
| On Some Characteristics of Generalized Cobb-Douglas
and SMAC Production Functions | <i>P. H. Thakar and
M. C. Jaiswal</i> |
| Demand for Cereals in Seventh Plan | <i>Gautam Kumar Mitra</i> |
| Financial Surplus in Public Sector | <i>B. L. Pandit</i> |

NOTE

- | | |
|--|------------------|
| A Note on Decomposing Measures of Social Welfare
according to Sources of Income | <i>B. Debroy</i> |
|--|------------------|

BOOK REVIEWS

BOOKS RECEIVED

Revised Subscription Rates (inclusive of ordinary postage):

Annual: Rs. 90, \$30, £15. Single issue: Rs. 30, \$10, £5.

Please address all correspondence relating to academic matters (e.g., articles, book reviews, etc.) to Dr. B. G. Bapat, Managing Editor, *ArthaVijnana* and other correspondence (e.g., subscription, etc.) to the Editorial Assistant, *Artha Vijnana*, Gokhale Institute of Politics and Economics, Pune 411 004. (India).

WITH BEST COMPLIMENTS OF

Mahyco
(Seedsman to the Nation)

MAHARASHTRA HYBRID SEEDS COMPANY LIMITED
19 Raj Mahal, 84 Veer Nariman Road
Bombay 400 020

Phone: 204 9497, 204 3020, Gram: Hybridseed Tlx:011-5671
Seed-in



**BOMBAY MERCANTILE
CO-OPERATIVE BANK LIMITED**

**BOMBAY MERCANTILE
CO-OPERATIVE BANK LTD.**

H. O. 78, Mohammedali Road, Bombay-400 003.

- * "A Bank that brings happiness to Many a home."
- * The Bank encourages savings by offering 12% P.A. Interest on Fixed Deposits for 60 months and 6% P.A. on Savings Bank and offers all kinds of Banking services including Foreign Exchange Business.
- * The Bank has various schemes to assist the Weaker Sections and also helps you to acquire household utility articles on easy re-payment terms.
- * The Bank has 33 Branches, 19 in Bombay City, 4 at Aurangabad, 3 at Ahmedabad and 1 each at Bhiwandi, Baroda, Nanded, Pune, New Delhi, Surat and Srinagar (Kashmir).
- * Please call at any of our Branches and enjoy the warmth of efficient and courteous service.

GHULAM GHOUSE
Chairman

ZAIN G. RANGOONWALA
Managing Director

AGRICULTURAL SITUATION IN INDIA

A Monthly Journal of the Directorate of Economics and Statistics, Ministry of Agriculture.

Main features :

- * Articles from experts to enable critical appreciation of current trends and prospects.
- * Extensive commentary on the agricultural development in India and abroad.
- * Reviews on important agricultural commodities.
- * Comprehensive statistical tables—crop production, wages, prices, import and export, rainfall and crop estimates.

Commanding a wide and influential readership in India and abroad, **Agricultural Situation in India** is an invaluable guide to business executives, administrators and students of agricultural economics.

Subscription { Single copy : Rs. 5.00 or £ 0.58 or \$ 1.80
 { Annual : Rs. 60.00 or £ 7.00 or \$ 21.60

Available from :

The Controller of Publications, Civil Lines, Delhi-110 054.

BANGLADESH DEVELOPMENT STUDIES

Volume XIV

March 1986

Number 1

ARTICLES

- Nibaran Chandra Deb* : Consumption Pattern in Rural Bangladesh
Atiq Rahman : Poverty Alleviation and the Most Disadvantaged Groups in Bangladesh Agriculture
Mahabub Hossain : Growth of Fertilizer Consumption in Two Villages of Bangladesh 1977-84
M. A. Quasem
S. Ahmad : Domestic Saving and Foreign Capital Inflow: The Case of Bangladesh

NOTES AND COMMENTS

- Abu Abdullah* : Distributional Aspects of Fertilizer Pricing Policy
A. R. Chowdhury : Monetary and Fiscal Impacts on Economic Activities in Bangladesh: A Note
Rushidan Islam Rahman : Time Budget Studies and the Measurement of Time Spent on Child Care by Rural Women in Bangladesh: A Note on Methodology

Published four times a year : March, June, September, December. Annual Subscription is Tk. 80.00 or US \$ 25.00 or UK £ 10.00 or equivalent thereof in other currencies.

Reprints of Articles are available in limited quantity at Tk. 5.00 or US \$ 2.00 or equivalent thereof in other currencies.

Books for Review should be sent in duplicate to the Executive Editor. Manuscripts in duplicate and editorial correspondence should be addressed to the Executive Editor, *The Bangladesh Development Studies*, Adamjee Court, Motijheel Commercial Area, Dhaka-2, Bangladesh.

Rejected Manuscripts are not returned.

European review of agricultural economics

In Issue: 13-1

- J.G. TERMORSHUIZEN, M.T.G. MEULENBERG and B. WIERENGA. Consumer behaviour in respect of milk in the Netherlands
- L. MCKINZIE, P.L. PAARLBERG and I.P. HUERTA. Estimating a complete matrix of demand elasticities for feed components using pseudo data
- A.M. HILLBERG. Limiting EC grain substitute imports
- D. KIRSCHKE. Budget costs of the EC's agricultural price policy under uncertainty
- C. HAMILTON. Agricultural protection in Sweden 1970-1980
- S. HEDLUND and M. LUNDAHL. Emergency considerations in Swedish agriculture
- R. SCHOUT and L. SLANGEN. The individual study system in teaching general and agricultural economics
- Book Reviews*

In Issue 13-2

- C.-H. HANF and R. KÜHL. Possibilities and limits of individual marketing on family farm firms
- M.G. SAKELLIS. An empirical analysis of savings behaviour of the Greek agricultural households
- R. GRABOWSKI and O. SANCHEZ. Returns to scale in agriculture
- M.S. BOYD and B.W. BRORSEN. Dynamic price relationships for US and EC corn gluten feed and related markets
- J.M. ALSTON. The effects of the CAP on international trade in poultry meat
- T.P. LIANOS and D. PARIARIAROU. Farm size structure in Greek agriculture
- S. BAUER. Agriculture in a turbulent world economy: A survey of the 19th International Conference of Agricultural Economists, Malaga, 1985

Editor:

Kees Burger
Economic and Social Institute
Free University, P.O. Box 7161
1007 MC Amsterdam, Netherlands

Special Issue: 13-3

- 'Rural Development in Europe': Some Surveys of Literature, edited by Martin Whitby**
- I.D. HODGE. The scope and context of rural development
- R. GIESSÜBEL and H. SPITZER. F.R.G.: Rural development under federal government
- A. BRUN. France: Rural development in a dynamic context
- M. DE BENEDECTIS. Italy: Fragmentation of policies and research effort
- A.L.G.M. BAUWENS and L. DOUW. Rural development: a minor problem in the Netherlands?
- A. MATTHEWS. Ireland: Rural development in an agrarian society
- I.D. HODGE and M. WHITBY. U.K.: Rural development, issues and analysis
- F. CENA and J.L. FERNANDEZ-CAVADA. Spain: Rural development under rapid depopulation
- M. WHITBY. An editorial postscript

Subscription rates for Volume 13(1986):

- Libraries/Institutions DM 149,- US\$ 69,-
- Individual (prepaid)* DM 70,- US\$ 32,-
- Single Issues DM 39,50 US\$ 19,-

Add postage per issue: DM 2,- (for F.R.G.) or DM 2,80 (for all other destinations).
* For private use only. Order directly from Walter de Gruyter.
(Not valid for German, Swiss and Austrian residents.)

Payment via Mastercard (Access)/Eurocard/American Express Card accepted.
Subscriptions and single orders via booksellers and subscription agents,
or directly from:

Walter de Gruyter & Co
P.O. B. 110240
D-1000 Berlin 11, F.R.G.

Walter de Gruyter, Inc.
200 Saw Mill River Road
Hawthorne, NY 10532, U.S.A.

mouton de gruyter

Berlin · New York · Amsterdam

INDIAN JOURNAL OF INDUSTRIAL RELATIONS

A Quarterly devoted to advancement of knowledge in the field of industrial relations and human resources including relevant aspects of labour relations, personnel management and rural labour. The Journal also welcomes communications from managers and union leaders reflecting their experiences and insights. All manuscripts intended for publication and books for review should be sent in duplicate to the editor.

Editor: J. S. Sodhi

Vol. 22

No. 2

October 1986

CONTENTS

ARTICLES

- Politics and Organized Labour:
A Sociological Analysis *Jerome Joseph*
- The Culture of Productivity *P. N. Rastogi*
- Upward Influence Tactics as a Function
of Organizational Climate and Goals
of Influence Attempt *Mahfooz A. Ansari
and Rehana*
- Industrial Relations and Sex
Discrimination in Japan *Gan Chin Lee*

COMMUNICATIONS

- A Test of Implicit Personality
Theories of Leadership *Neelam Verma*
- Human Resource Development:
Human Software *Nitish De*
- An Investigation into Affiliation Patterns
of Workers of Three Trade Unions *Z. M. Quraishi*

Index of Articles (Based on the SRC Library)

Subscription Rate: Rs. 60.00 a year; Rs. 115.00 for two years;
Rs. 170.00 for three years; Rs. 15.00 for single copy.

Cheques payable to: Shri Ram Centre for Industrial Relations and
Human Resources, 5-Sadhu Vaswani Marg, New Delhi-110 005
(India).

Some day, all Indian farmers will have it this good.

“We have our own
pasteurisation plant...
Our own baby food unit...
Our own butter factory...
Our own milk powder plant...
Our own cattlefeed factory...
Our own veterinary service...
Our own marketing arrangements...”



The 10 lakh farmers who constitute the Gujarat Co-operative Milk Marketing Federation have shown the way.

Their co-operative way of life has paid them rich dividends. They not only own the most modern plants but are also able to recruit the finest managerial and technical talent to ensure their efficient operation.

The dairy co-operative revolution that started in Gujarat is now spreading to the rest of the country.



Gujarat Co-operative Milk Marketing Federation Ltd. Anand 388 001.

INDIAN JOURNAL OF AGRICULTURAL ECONOMICS

STATEMENT ABOUT OWNERSHIP AND OTHER PARTICULARS OF
THE INDIAN JOURNAL OF AGRICULTURAL ECONOMICS

[In terms of Rule 8 of the Registration of Newspapers (Central) Rules 1956]

FORM IV

1. Place of Publication : The Indian Society of Agricultural Economics,
46-48, Esplanade Mansions,
Mahatma Gandhi Road, Fort,
Bombay-400 001.
2. Periodicity of Publication : Quarterly
3. Printer's Name : Shri G. R. Shetty
Nationality : Indian
Address : Indian Society of Agricultural Economics,
46-48 Esplanade Mansions, Mahatma Gandhi Road, Fort,
Bombay-400 001.
4. Publisher's Name : Shri G. R. Shetty
Nationality : Indian
Address : Indian Society of Agricultural Economics,
46-48 Esplanade Mansions, Mahatma Gandhi Road, Fort,
Bombay-400 001.
5. Editor's Name : *Editorial Board*
Prof. M. L. Dantwala *Chairman*
Dr. C. H. Shah *Editor*
Shri T. R. Sundaram *Associate Editor*
Dr. D. P. Chaudhri }
Dr. Samar K. Datta }
Dr. B. M. Desai } *Members*
Dr. J. L. Kaul }
Dr. V. K. Pandey }

Address:

- (1) Prof. M. L. Dantwala,
Laxman Apartments,
Block No. A-29, Sixth Floor,
Azad Road, Off. Vivekanand Road,
Andheri (West),
Bombay-400 058.
- (2) Dr. C. H. Shah,
6, Sadhana,
10th Road, Khar,
Bombay-400 052.
- (3) Shri T. R. Sundaram,
Director of Research,
Indian Society of Agricultural Economics,
46-48, Esplanade Mansions,
Mahatma Gandhi Road, Fort,
Bombay-400 001.
- (4) Dr. D. P. Chaudhri,
Director,
Agricultural Economics Research Centre,
University of Delhi,
Delhi-110 007.
- (5) Dr. Samar K. Datta,
Professor and Director,
Agro-Economic Research Centre,
Visva-Bharati,
Santiniketan-731 235 (W.B.)
- (6) Dr. B. M. Desai,
Professor,
Indian Institute of Management,
Vastrapur,
Ahmedabad-380 015.
- (7) Dr. J. L. Kaul,
Associate Professor of Agricultural Economics,
Department of Economics & Sociology,
Punjab Agricultural University,
Ludhiana-141 004.
- (8) Dr. V. K. Pandey,
Professor and Head,
Department of Agricultural Economics,
G. B. Pant University of Agriculture &
Technology,
Pantnagar-263 145,
Dist. Nainital. (U.P.)
6. Names and addresses of individuals who own the newspaper and partners or shareholders holding more than one per cent of the total capital
- The Indian Journal of Agricultural Economics is owned by the Indian Society of Agricultural Economics, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Bombay-400 001.

I, G. R. Shetty, hereby declare that the particulars given above are true to the best of my knowledge and belief.

Sd/- G. R. Shetty
Name of Publisher

GUIDELINES FOR SUBMISSION OF PAPERS BY AUTHORS

1. **Subjects:** The objective of the *Journal* is to provide a forum for dissemination and exchange of findings of research on agricultural economics. Purely descriptive material is not appropriate for such a journal. Papers dealing with (i) new developments in research and methods of analysis, or (ii) which apply existing empirical research methods and techniques to new problems or situations, or (iii) which attempt to test new hypotheses/ theoretical formulations or modifications of existing theories or policies to explain economic phenomena especially in the Indian context, or (iv) papers based on research done by the authors bringing out new facts or data presented in an analytical frame will be preferred. Younger economists are advised to seek guidance from their seniors in the preparation of the paper for the *Journal*. A one-page statement indicating the author's own assessment of the importance and relevance of the findings reported in his paper in the context of recent researches would be welcome.

2. **Size of Paper :** In view of the exorbitant increase in the cost of printing, it has become necessary to restrict the length of the papers accepted for publication to 20 (double space) typed pages (of the size 8 $\frac{1}{2}$ -by-11 inches) including tables and appendices (with margins on all sides of at least 1 $\frac{1}{2}$ inches). Papers exceeding this size limit will be returned to the authors. The authors may however send along with their papers such "supporting material" as may be of help to the referees in evaluating them. Abstracts not exceeding 100 words should be submitted in duplicate along with the paper.

3. **Copies :** Two copies of each paper should be submitted along with a processing fee of Rs. 15/- either by M.O. or crossed I.P.O. (\$ 4.00 or £ 2.50) drawn in the name of the Indian Society of Agricultural Economics, to meet partly the postage and other incidental charges.

4. **Author's identification :** To protect the anonymity of authors while referring the Papers for expert opinion on their merits, authors are advised to avoid disclosing their identity in the text and to attach a separate page showing the name(s) and affiliation(s) of the author(s) along with any footnotes containing bibliographical information or acknowledgements.

5. **Mathematical notations :** Only essential mathematical notations may be used; it is prohibitively costly to typeset such notations. All statistical formulae should be neatly typed.

6. **Figures-Charts and Tables :** Professional assistance should be availed of while presenting figures and charts. They should be drawn in black ink which can be easily reproduced by photographic process. Typescript is not suitable for reproduction. Roman numerals may be used for tables.

7. **Footnotes :** Footnotes should be numbered consecutively in plain arabic superscripts.

8. **References and citations :** Only cited works should be included in the reference list. Please follow the style of citations as in previous issues of this *Journal*.

9. **General :** While sending papers the authors should state that the material has not been published elsewhere or is not being published or being considered for publication elsewhere.

10. **Reprints :** Ten free reprints of the paper would be given to the author; additional reprints, if required, are supplied at cost which may be ascertained from the Editor.

Printer : Shri G.R. Shetty; Type-setting on Postscript laser printer at Indian School of Political Economy, Arhabodhi, Pune - 411 016; Place of printing : Mudra, 383 Narayan Peth, Pune - 411 030; *Publisher :* Shri G.R.Shetty; Place of Publication and Owners : The Indian Society of Agricultural Economics, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Bombay-400 001.

*SOME OF THE
PUBLICATIONS OF THE INDIAN SOCIETY OF
AGRICULTURAL ECONOMICS*

1. INDIAN JOURNAL OF AGRICULTURAL ECONOMICS 1940-1964-SELECTED READINGS (1966)	25.00
2. EVALUATION OF LAND REFORMS (with special reference to the Western Region of India) by Prof. M.L. Dantwala and Dr. C.H. Shah (1971)	15.00
3. COMPARATIVE EXPERIENCE OF AGRICULTURAL DEVELOPMENT IN DEVELOPING COUNTRIES OF ASIA AND THE SOUTH-EAST SINCE WORLD WAR II (1972)	Cloth bound \$ 9.00, £ 3.60 Card bound 30.00
4. INDIAN AGRICULTURAL DEVELOPMENT SINCE INDEPENDENCE (1986)	135.00
5. AGRICULTURAL DEVELOPMENT IN INDIA: THE NEXT STAGE (1988)	190.00
6. AGRICULTURAL DEVELOPMENT POLICY: ADJUSTMENTS AND REORIENTATION (1990)	250.00

SEMINAR SERIES

7. No. IV. SEMINAR-CUM-WORKSHOP ON PROBLEMS OF FARM PRODUCTION PLANNING AND PROGRAMMING (1964)	10.00
8. No. VI. SEMINAR ON FARM PRODUCTION PLANNING AND PROGRAMMING (1965)	8.00
9. No. VIII. SEMINAR ON FOODGRAINS BUFFER STOCKS IN INDIA (1969)	12.00
10. No. XII. SEMINAR ON RURAL DEVELOPMENT FOR WEAKER SECTIONS (1974)	25.00
11. No. XIII. SEMINAR ON THE ROLE OF IRRIGATION IN THE DEVELOPMENT OF INDIA'S AGRICULTURE (1976)	30.00
12. No. XV. SEMINAR ON CROP INSURANCE (1983)	60.00
13. TECHNOLOGY OPTIONS AND ECONOMIC POLICY FOR DRYLAND AGRICULTURE: POTENTIAL AND CHALLENGE Edited by Dr. N.S. Jodha (1989)	250.00
14. LIVESTOCK ECONOMY OF INDIA (1989)	95.00

Nos. 4, 6 and 14 can be had from:
OXFORD & IBH PUBLISHING CO. PVT. LTD.,
66, JANPATH, NEW DELHI-110001.

No. 5 from:
HIMALAYA PUBLISHING HOUSE,
Ramdoot, Dr. Bhalerao Marg, Girgaon, Bombay-400 004.

No. 13 from:
CONCEPT PUBLISHING COMPANY,
A-15-16, Commercial Block,
Mohan Garden,
New Delhi-110 059.

The rest can be had from:
THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS,
46-48, Esplanade Mansions,
Mahatma Gandhi Road, Fort, Bombay-400 001.