



**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](mailto: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. 4.

ISSN 0019-5014

OCTOBER-  
DECEMBER  
1987

# INDIAN JOURNAL OF AGRICULTURAL ECONOMICS



INDIAN SOCIETY OF  
AGRICULTURAL ECONOMICS,  
BOMBAY

## ANNOUNCEMENT

### 48th ANNUAL CONFERENCE OF THE SOCIETY

The 48th Annual Conference of the Indian Society of Agricultural Economics will be held under the auspices of the Banaras Hindu University at Varanasi (Uttar Pradesh) sometime in December 1988. The following subjects have been selected for discussion at the Conference.

1. Institutional Credit—Rural.
2. Forestry (including Social Forestry) in the Context of Economic Development.
3. Commercial Crops (excluding Plantation Crops).

The Indicative Outlines of these subjects will be circulated soon to the members and member-institutions. Research papers not exceeding 10 pages each (typed in double space on one side only) including tables, annexures, references, etc., along with their Summaries (not exceeding 200 words) in *triplicate* are invited for discussion at the Conference and should reach the Society's Office not later than *30th June, 1988*.

WITH BEST COMPLIMENTS OF

**Mahyco**  
**(Seedsmen 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

## 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.

## THE SINGAPORE ECONOMIC REVIEW

(Formerly The Malayan Economic Review)

Journal of the Economic Society of Singapore and the Department of Economics and Statistics, National University of Singapore

Volume XXXII

APRIL 1987

Number 1

### ARTICLES

- An Empirical Examination of the Dependency Approach to Underdevelopment ... .. Donald G. Richards
- Decomposing the Earnings Differentials in Peninsular, Malaysia ... .. Wim. P. M. Vijverberg
- Identification of Structural Constraints in Sectoral Development using the Diamond-Laumas Key Sector Method with West Malaysian Case Study ... .. Abdul Aziz Abdul Rahman
- A General Equilibrium Cost-Benefit Approach to Policy Reform and Project Evaluation ... .. Gan Khuan-Poh and Edward Tower
- A Note on the Effect of Changes in Demand upon Price: A Durable Goods Monopoly ... .. Churai Tapvong
- Distribution and Development Effects of Tariff cum Subsidy Policies ... .. Ira N. Gang

### BOOK REVIEWS

Price \$ 10-00

This journal is published twice a year, in April and October. Annual subscription is US \$ 15 or S \$ 30 (equivalent) per year. Subscription orders should be sent direct to:

**Singapore Economic Review**  
c/o Faculty of Business Administration  
National University of Singapore  
10 Kent Ridge Crescent  
Singapore 0511

Attn: Ms. Yap Choo Lian

# European review of agricultural economics

## In issue: 14-2

- T. TH. KOOPMANS. An application of an agro-economic model to environmental issues in the EC: A case study
- J. D. LANDHEER. The ratio of fat value to non-fat value of milk: An econometric model of effects of intervention price changes in the EC
- G. GIOS AND C. MIGLIERINA. Cost structure and integration in the agro-food sectors: A comparative study in EC countries
- N. C. BALTAS. Supply response for Greek cereals
- S. PAUL. A cost function analysis of wheat production in India
- H. CARAVELI-IOANNIDIS. Farm income disparity in Greece and membership of the EC

## Book Reviews

## In issue: 14-3

- R. H. GEBAUER. Socio-economic classification of farm households - conceptual, methodical and empirical considerations
- L. A. WINTERS. The political economy of the agricultural policy of industrial countries
- S. C. BLANK. Evaluating international price relationships using causal models
- R. HARTHOORN and G. A. A. WOSSINK. Backward and forward effects of Dutch agriculture
- A. A. ANDRIKOPOULOS, J. A. BROX and TH. A. GEORGAKOPOULOS. Short-run expenditure and price elasticities for agricultural commodities: the case of Greece, 1951 - 1983

## Book Reviews

## Editor:

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

## Special issues

are being planned on the following topics:  
Computers and farmbusiness  
Agriculture and the environment  
Transition strategies for the  
liberalisation of agricultural markets

## Subscription rates for Volume 14 (1987):

- Libraries/Institutions DM 159,- US\$ 77,-
- Individual (prepaid)\* DM 70,- US\$ 32,-
- Single Issues DM 42,-

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      Walter de Gruyter, Inc.  
P.O. B. 110240                200 Saw Mill River Road  
D-1000 Berlin 11, F. R. G.      Hawthorne, NY 10532, U.S.A.

**mouton de gruyter**

Berlin · New York · Amsterdam

# BANGLADESH DEVELOPMENT STUDIES

Volume XIV

September 1986

Number 3

## Articles

- Kabir U. Ahmed* : Development with Economic Justice and Labour Efficiency
- Quazi Shahabuddin* : The Impact of Risk on Agricultural Production Decisions:  
*David Butterfield* : Tests of a Safety-First Model in Bangladesh
- Atiq Rahman* : Projections of Consumption Expenditure over the Third  
*Omar H. Chowdhury* : Five Year Plan of Bangladesh: 1985-90
- Sadrel Reza* : The Balance of Payments Effects of Private Foreign Invest-  
*A. H. M. M. Alam* : ment: A Case Study of Bangladesh  
*M. Ali Rashid*
- Nuimuddin Chowdhury* : Public Foodgrain Distribution System in Bangladesh in the  
Post Liberation Period: A Historical Profile

## Notes and Comments

- A. A. Abdullah* : Interdistrict Changes and Variations in Landlessness in  
*K. A. S. Murshid* : Bangladesh.
- Mohammad Ali Taslim* : The Non-existence of "Marshallian" Sharecropping Con-  
tracts: A Note.

Volume XIV

December 1986

Number 4

## Articles

- James K. Boyce* : Water Control and Agricultural Performance in Bangladesh
- Mahabub Hossain* : Irrigation and Agricultural Performance in Bangladesh:  
Some Further Results
- Sultan H. Rahman* : Supply Response in Bangladesh Agriculture

## Notes and Comments

- Md. Abul Quasem* : Availability of Fertilizer and Pesticides in Bangladesh
- Sajjad Zohir* : Determination of Rental Share in a Land-surplus Economy
- Rushidan Islam Rahman* : Seasonality of Workload of Women in Rural Areas of  
Bangladesh: Some Male-Female Comparison

Published four times a year: March, June, September, December. Annual Subscription is Tk. 80.00 or US \$ 25.00 or British Sterling 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.

Please note that with effect from January, 1987 the overseas annual subscription is US \$ 40.00 and Inland Tk. 100.00.

## 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 INDUSTRIAL RELATIONS

A Quarterly devoted to dissemination of knowledge in the fields of Industrial Relations and Human Resources including relevant aspects of labour relations, personnel management and rural labour. Besides, communications from Managers and Union Leaders reflecting their views and Book Reviews are also incorporated.

Editor: J. S. Sodhi

---

Vol. 23

No. 1

July 1987

---

## *Articles*

- Organisational Climate and Supervisory-  
Management Relations in Bharat Ispat  
Nigam *Baldev R. Sharma  
and C.S. Venkata  
Ratnam*
- Some Antecedents of the Exercise of Upward  
Influence Tactics *Chandra B. P. Singh*
- Urban Informal Sector: Issues arising out  
of Gujarat's Experience *S.P. Kashyap and  
Himal Singh*

## *Communications*

- Union Reactions to Technological Change *Albert A. Blum*
- Strategic Approach to Labour Relations *Y. R. K. Reddy*
- Mental Health of the Industrial Workers in  
Different Technological Operations and their  
Innovativeness *S. Subramanian*
- Perceived Occupational Stress and Employees'  
Attitude towards Job and Management *Jagdish*
- Participation of Women in Economic Deve-  
lopment—Trends & Issues *M. K. Singh*

## **Index of Articles**

---

*Subscription Rate:* Rs. 80.00 for one year; Rs. 225.00 for three years; Rs. 375.00 for five years; Rs. 20.00 for single copy. The rates for the foreign countries are \$ 44 for one year; \$ 132 for three years and \$ 220 for five years. The costs are inclusive of the Air Mail charges.

Cheques payable to Shri Ram Centre for Industrial Relations and Human Resources, A-E/16, Jhandewalan Extn., New Delhi 110 055.



# ARTHA-VIKAS

A biannual Journal of Economic Development published by the Department of Economics, Sardar Patel University, Vallabh Vidyanagar-388 120, Gujarat, India.

---

Vol. XXI

January-December 1985

No. 1-2

---

## CONTENTS

### ARTICLES

- Role of Government in Industrialization of A Backward Region: A Study of Bharuch .. .. . *Y. S. Purohit*  
*V. P. Bharadwaj*
- The Yield Instability in Indian Agriculture—  
A Meteorological Analysis .. .. . *K. A. Patel*
- Working of Small Farmers Development  
Agency in States of Gujarat and Rajasthan .. .. . *M. T. Bapat*  
—Case Studies of Two Districts .. .. . *S. D. Purohit*
- Economics of Financial Intermediation .. .. . *M. S. Raj*
- Money, Income and Causality—A Case for  
India .. .. . *Kiran H. Joshi*  
*Sanjiv M. Joshi*
- Measurement of Inequality and Poverty in  
the Hilly Agrarian Economy of Himachal  
Pradesh—A Positive Approach .. .. . *D. S. Thakur*

### NOTE

- A Study of Growth and Relative Contribution  
of Different Components of Tea Production  
in India: 1956-78 .. .. . *S. K. Misra*

---

Editorial Communication, books and periodicals for review and communications regarding advertisements should be addressed to the Managing Editor, *Artha-Vikas*, Department of Economics, Sardar Patel University, Vallabh Vidyanagar-388 120, Gujarat, India.

Annual subscription in India: Rs. 30.00 and abroad US \$ 12.00.  
Price for single copy: Rs. 15 or US \$ 6.00.

## ARTHA VIJANA

Journal of the Gokhale Institute of Politics  
and Economics, Pune 411 004.

Vol. 29

No. 3

September 1987

### CONTENTS

#### ARTICLES

- Town and Country in Economy in Transition .. *K. R. Ranadive*  
Economic Policy and Foreign Trade of Hungary *Fáyné Péter Emese*  
Stability in Seasonal Labour Absorption under  
Drivland Farming .. .. . *B. Gopalakrishna*  
*Hebbar & S. Bisaliah*  
Dependence of the Small Scale Manufacturing  
Enterprises on the Organized Sector—Some  
Evidences .. .. . *Nityananda Sarkar*  
*and Robin Mukherjee*

#### BOOK REVIEWS

Revised Subscription Rates (inclusive of ordinary postage):

Annual: Rs. 120, \$ 40, £ 25. Single issue: Rs. 40, \$ 15, £ 10.

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

## ANVESAK

JOURNAL OF THE SARDAR PATEL INSTITUTE OF ECONOMIC  
AND SOCIAL RESEARCH

VOL. 16

No. 2

December 1986

### CONTENTS

- Economics of Water Use in Dantiwada Canal *Arun S. Patel,*  
Command Area .. .. . *Haribhai F. Patel*  
Econometric Model for India: A Review .. *Surjit Singh*  
Manpower Forecasting Skills in a Perspective  
Planning Frame—Punjab .. .. . *Autar S. Dhesi,*  
*Sunita Handa, Surjit*  
*Singh*  
Estimation of an Agricultural Production Func-  
tion Using Principal Components .. .. *C. V. Seshachala-*  
*pathi, N. A. Rao*  
Agricultural and Economic Development in  
Gujarat .. .. . *G. N. Joshi*  
Industrialization in Gujarat: An Analysis Over  
time and Space .. .. . *A. J. Vora*

#### Author and Subject Index

All correspondence relating to academic matters should be addressed to *Chief Editor*. All correspondence relating to subscription and other administrative matters should be addressed to the *Development Officer, Sardar Patel Institute of Economic and Social Research*, Thaltej Road, Ahmedabad 380 054, India.

## 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.