Publications Received


Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP) is a regional, intergovernmental and autonomous institution, established in July 1979.

Asia-Pacific Journal of Rural Development (APJORD)

APJORD, a half-yearly interdisciplinary Journal of CIRDAP, is devoted to the issues and discussions on rural development primarily in the Asia-Pacific region. APJORD focuses on poverty issues and rural transformation, keeping in view the programme priorities of the Centre, e.g. Agrarian development, institutional/infrastructural development, resource development including human resources, and employment.

The Editorial Advisory Board consists of 20 internationally recognized academicians, researchers, and development practitioners.

Invitation for Articles

Articles are invited for publication in APJORD. All articles are subject to peer review. Articles between 5000-10000 words are preferred. Articles should be sent by e-mail to apjord@cirdap.org. Notes to Contributors is available on CIRDAP website: www.cirdap.org

Subscription

Annual Subscription Rates for one volume of two issues (including postage) published in July and December: US$20 for Asia-Pacific countries. For Bangladesh Tk.300 (Cheque/DD in favour of CIRDAP). US$35 for all other countries. Subscription may be paid also through money transfer to CIRDAP account which is as follows:

US Dollar A/C No. : 05420334020202
Account Name : CIRDAP
SWIFT Code : SBINBDDHGUL
State Bank of India, Uday Tower (1st Floor)
57&57/A, Gulshan Avenue
Dhaka-1212, Bangladesh

After the transfer please send the advice slip to e-mail: apjord@cirdap.org

For details contact:

Director (ICD)/The Editor, APJORD, CIRDAP, Chameli House, 17 Topkhana Road, GPO Box 2883, Dhaka-1000, Bangladesh. E-mail: vasanthi@cirdap.org
**JOURNAL OF FINANCIAL MANAGEMENT AND ANALYSIS**

*International Review of Finance*  
*(Half Yearly)*

**Aims**

JFMA focuses on financial management issues confronting 'MNC-controlled' developing countries and 'MNC-parented' developed countries, by investigating such crucial issues as:

(i) Inspite of massive techno-economic assistance from developed to developing countries, poverty gap within developing countries has continued to widen and they remain technologically overdependent on MNCs rendering the rich richer and the poor poorer; and

(ii) Business ethical consideration or selfish motives associated with such capital transfers, etc., and attempts to provide a forum facilitating the development of the science of financial management.

The Journal – a refereed journal – offers techniques and new concepts backed up by case studies and provides a bridge between financial management theory and practice. The Journal is a useful decision kit for finance practitioners, policy makers and scholars from throughout the world and offers a unique opportunity to contribute your own expertise to develop the financial management science.

**Recent issues:** Each issue contains unique financial management issues like:

- Foreign Investment Models: Empirical Evidence from Italy
- Relevance of Financial Statistics to Aid Judicious Public Health Dispensary Decision-Making in Nigeria
- World Bank Financing Methods Need Overhauling
- Good ‘Political Risk’ Induces Foreign Investment
- Does Abnormal Profit-oriented Wage Differential Lead to Productivity Loss?
- Do MNCs Engage in Arbitrage Using Gamblers’ Earnings Hypothesis?
- Are G-7 Countries Expatriates in G-15 Countries?
- Misconstrued Divestment Strategy Induces Overinvestment: Breeds Economic Inefficiency
- A Financial Management Analysis of Corporate Sickness and Recovery – Some Advances in Cash Management Techniques
- Do Conferences/Seminars Assist Financial Decision Making?
- Incomplete Contracting: Price-Cap Regulation
- Do Universal Banks in Major European Countries have better Performances compared to Specialized Banks?
- Korea’s Industrial Policy Motivates Advanced-cum-Competitive Indigenous Technology Growth and Development

**Manuscripts for Submission**

Typed articles, in triplicate (including summary of the paper in 300 words with floppy disk) are invited on any aspect bearing on financial management from scholars and practising financial managers, planners, analysts, consultants and other professionals for consideration for publication in JFMA.

Manuscript and submission may be sent to:  
**Managing Editor, JFMA**  
**Om Sai Ram Centre for Financial Management Research**  
**15, Prakash Cooperative Housing Society, Relief Road, Santacruz (West), Mumbai-400 054, INDIA**
Journal of Indian Association of Social Science Institutions  
(IASSI)  
*IASSI Quarterly: Contributions to Indian Social Science*  
Vol. 32 No. 4 October-December 2013

| Transition to Higher Education in India | Jandhyala BG Tilak and K. Biswal |
| Rural Poverty and Access to Land – A Study of Odisha | R.K. Panda |
| Women Inclusion in Participatory Irrigation Management: Predilections and Predicaments | K. Gulam Dastagir |
| Poor Water Source and Agricultural Crisis in Anantapur District of Andhra Pradesh | Vijay Patil Ramchandra |
| Violence against Rural Women in India | Priyadarshini |
| Volatility in Indian Stock Market and its Interdependence with Select Macroeconomic Financial Variables | Suparna Nandy Pal and Arup Kumar Chattopadhyay |

**Book Reviews**

Livelihood for Tribals in Nexal Hit Areas by S.K. Chaudury (2012), Surendra Publications, New Delhi, pp. 1-280, Rs. 1200/-  
P.C. Sikligar

---

**Subscription Rates**

For India and SAARC Countries, including postage: Rs. 400/- for one year, Single copy Rs. 100/-.  
For other countries US$ 75 per year or equivalent, including postage by surface mail.

Enquiries and Correspondence should be addressed to Editor, IASSI Quarterly, Room No. 76, I.I.P.A. Hostel, Indian Institute of Public Administration, Indraprastha Estate, New Delhi-110 002.

Tel.: 2332 4581/2331 5284/2335 6834, Fax No.: 011-2331-5284, Website: [www.iassi.org](http://www.iassi.org) / [www.iassi-ssis.org](http://www.iassi-ssis.org), Emails: stiassi@bol.net.in; iassi79@yahoo.com
**ARTICLES**

1. Effectiveness of Mahatma Gandhi National Rural Employment Guarantee Programme to Check Migration Among the Rural Households - Amit Kundu

2. Forest Rights Act in Chhattisgarh and Gujarat: Unfolding the Dynamics in Implementation - Madhusudan Bandi


5. Impact of Poverty Alleviation Programmes on Socio-Economic Development of Rural Poor of Odisha- A Statistical Analysis - Sanjit Kumar Swain


**BOOK REVIEWS**

**Subscription Rates**

Indian Annual Subscription

- Individuals: Rs.200/- + 160/- (Regd. Post Charges)
- Institutions: Rs.500/- + 160/- (Regd. Post Charges)

Life Membership: Rs.3,500/-

Annual Institutional Membership: Rs.1200/-

Foreign: Annual for JRD: US $ 50/UK £ 40

Foreign Institutional: $250 (50% discount to developing countries). Orders may be sent through Demand Draft drawn in favour of National Institute of Rural Development and Panchayati Raj to the address given below

Professor and Head (CMRD)
National Institute of Rural Development and Panchayati Raj
Rajendranagar, Hyderabad – 500 030, India

Telefax: 91-040-24008473, E-mail: ciec@nird.gov.in, cmrd_info@nird.gov.in / cmrd_info@nird.gov.in
Website: http://www.nird.org.in
Dr. S.R. Sen Prize Award for the Best Book on Agricultural Economics and Rural Development Published in 2011-2012

The Indian Society of Agricultural Economics has instituted in 1996, under Dr. S.R. Sen Endowment Fund Prize Award Scheme, a biennial prize award of Rs.15,000/- for the best book/monograph on Agricultural Economics and Rural Development published by Indian authors under 45 years of age as on the date of publication of the book(s). Books that have made significant original contribution to theoretical and empirical studies in the field of agricultural economics and rural development are considered for the award. Edited books by authors are not considered for the Prize Award. The selection of the best book for prize award is done by a Screening Committee and the Jury constituted for the purpose.

Books published by Indian authors during the calendar year 2011-2012 are being considered for the Ninth Biennial Prize Award.

PROFESSOR RAMESH CHANDRA AGRAWAL PRIZE ENDOWMENT AWARD

The Indian Society of Agricultural Economics has instituted Professor Ramesh Chandra Agrawal Award of Excellence for contribution to Agricultural Economics in 2004. The award, to be given biennially, is given to an Indian scholar who has made significant outstanding contributions to theoretical or empirical studies in the field of Agricultural Economics.

The award will consist of a citation and a cash prize of Rs. 25,000. A four member jury of eminent scholars will select the awardee. The name of the sixth awardee will be announced and the presentation will take place at the 76th Annual Conference of the Indian Society of Agricultural Economics to be held in November/December 2016.

The Indian Society of Agricultural Economics will administer the award. Members of the Society and scholars in the field may take nominations with a short resume of the nominee’s work including a list of important publications. Nominations should be sent before September 15, 2015 to:

The Honorary Secretary and Treasurer,
The Indian Society of Agricultural Economics,
C-104, First Floor, Sadguru Complex I,
Near Vagheshwari, Gen. A.K. Vaidya Marg,
Goregaon (East), Mumbai - 400 063            Email: isae@bom7.vsnl.net.in
ISAE Fellows

2014
• Dr. Uma Lele
• Dr. N. Nagaraj
• Dr. Rajinder S. Sidhu

2013
• Dr. Praduman Kumar
• Dr. M.G. Chandrakanth
• Dr. R.P. Singh

2012
• Dr. P.K. Joshi
• Dr. Ramesh Chand
• Dr. Mruthyunjaya

2011
• Dr. Yoginder K Alagh
• Dr. R.S. Deshpande
PAST OFFICE-BEARERS OF THE SOCIETY

**PRESIDENTS OF THE SOCIETY**
- Sir Malcolm Lyall Darling (1939-40)
- Sir T. Vijayaraghavacharya (1941-42)
- Sir Manilal B. Nanavati (1943-59)
- Professor D.G. Karve (1960-62, 1964-66)
- Professor M.L. Dantwala (1963-64, 1966-85)
- Professor V.M. Dandekar (1985-1994)
- Shri S.S. Johl (2004-2009)
- Dr. C. Ramasamy (-2010 onwards)

**HON. JT. SECRETARIES**
- Shri Sardar Katar Singh (1940-41)
- Dr. M.B. Desai (1948-52)
- Dr. K.N. Naik (1953-55)
- Dr. N.A. Mujumdar (1958-60)
- Dr. C.H. Shah (1961-66)
- Dr. W.C. Shrishrimal (1967)
- Dr. Jai Krishna (1968)
- Dr. V.M. Rao (1969-71)
- Dr. (Mrs.) Tara Shukla (1972-75)
- Dr. (Ms.) S.D. Sawant (1979-1993)
- Dr. V.G. Mutalik Desai (1999-2002)
- Dr. C.L. Dadhich (2003-2006)
- Mrs. Vijaya Venkatesh (-2007 onwards)

**PRESIDENTS OF THE CONFERENCE**
- Dr. Dayanatha Jha (2001)
- Sir Malcolm Lyall Darling (1940)
- Diwan Bahadur Sir T. Vijayaraghavacharya (1941)
- Sir Manilal B. Nanavati (1943)
- Sir Manilal B. Nanavati (1944)
- Sir Manilal B. Nanavati (1945)
- Sir Manilal B. Nanavati (1946)
- Shri V.L. Mehta (1947)
- Sir S.V. Ramamurthy (1948)
- Dr. Rajendra Prasad (1950)
- Shri R.K. Patil (1951)
- Professor C.N. Vakil (1952)
- Shri V.T. Krishnamachari (1953)
- Professor D.R. Gadgil (1954)
- Shri J.J. Anjaria (1955)
- Professor D.G. Karve (1956)
- Dr. B.K. Madan (1957)
- Dr. S.R. Sen (1959)
- Professor M.L. Dantwala (1960)
- Dr. V.K.R.V. Rao (1961)
- Shri Tarlok Singh (1962)
- Dr. B.N. Ganguli (1963)
- Shri Asoka Mehta (1964)
- Dr. J.P. Bhattacharjee (1965)
- Professor V.M. Dandekar (1967)
- Shri S.C. Chaudhari (1967)
- Dr. A.M. Khusro (1968)
- Shri V.M. Jakhade (1969)
- Dr. A.S. Kahlol (1970)
- Dr. P.V. Sukhatme (1972)
- Dr. Raj Krishna (1972)
- Shri J.S. Sarma (1973)
- Dr. K.N. Raj (1974)
- Dr. D.T. Lakdawala (1975)
- Dr. B.S. Minhas (1976)
- Dr. M.S. Swaminathan (1977)
- Dr. Y.S. Vyas (1978)
- Dr. C.H. Shah (1979)
- Dr. Daroga Singh (1980)
- Dr. S.L. Shah (1981)
- Dr. D.K. Desai (1982)
- Dr. S.S. Johl (1983)
- Dr. A.S. Sirohi (1985)
- Dr. N. Rath (1985)
- Dr. G. Parthasarathy (1986)
- Dr. A. Vaidyanathan (1987)
- Dr. J.J. Singh (1988)
- Professor C.N. Vakil (1956)
- Shri S.V. Ramamurthy (1948)
- Dr. Rajendra Prasad (1950)
- Shri V.M. Jakhade (1969)
- Dr. A.S. Kahlol (1970)

**CHAIRMAN OF THE EDITORIAL BOARD**
- Professor J.J. Anjaria (1949-53)
- Dr. Nilakantha Rath (1991-1999)
- Professor V.M. Rao (2000-2004)
- Professor M.V. Nadkarni (2005-2007)
- Professor C. Ramasamy (2008-09)
- Dr. Dinesh K. Marothia (2010-14)
- Dr. Vasant P. Gandhi (2015 onwards)

**EDITOR**
- Professor M.L. Dantwala (1956-57)
- Shri V.M. Jakhade (1967-86)
- Dr. C.H. Shah (1987)
- Dr. N.A. Mujumdar (1987-2014)
- Dr. M.H. Suryanarayana (2015 onwards)

**HON. SECRETARIES**
- Dr. T.G. Shirmane (January-June 1939)
- Shri S.K. Bedekar (June 1939-41)
- Professor J.J. Anjaria (1942-46)
- Professor M.L. Dantwala (1947-54)
- Dr. M.B. Desai (1955, 1958-60)
- Dr. K.N. Naik (1956-57)
- Shri V.M. Jakhade (1963-67)
- Professor G.B. Kulkarni (1968-71)
- Dr. C.H. Shah (1968-71)
- Dr. V.M. Rao (1972-75)
- Dr. (Mrs.) Tara Shukla (1975-79, 1993-98)
- Dr. J.N. Barmeda (1979-92)
- Dr. V.G. Mutalik-Desai (2003-2006)
- Dr. C.L. Dadhich (-2007 onwards)
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 any 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 8½ -by-11 inches) including tables and appendices (with margins on all sides of at least 1½ 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 papers. The authors may send their papers in electronic form at the following email address: isae@bom7.vsnl.net.in

3. Copies: Two copies of each paper should be submitted along with a processing fee of Rs. 500/- either by M.O. or Demand Draft (US $ 25.00 or £ 15.00) 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 affiliations(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. It is editorial policy not to consider for publication more than one paper from the same author during a year.

   Papers which are not found suitable for publication will not be returned unless accompanied by a self-addressed and stamped envelope. No correspondence will be entertained on the papers rejected by the Editorial Board.

10. Reprints: No free reprints of the paper would be given to the author. However an author can obtain a soft copy of the paper in PDF format at Rs.500/- per article.

Printer: Mrs.Vijaya Venkatesh; Type-setting on Postscript laser printer at the Indian Society of Agricultural Economics, Mumbai- 400 001; Place of printing: Mudra, 383 Narayan Peth, Pune-411 030; Publisher: Mrs. Vijaya Venkatesh; Place of Publication and Owners: Registered Office: Indian Society of Agricultural Economics, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Mumbai-400 001, Present address: to which papers need to be sent: Indian Society of Agricultural Economics, C-104, First Floor, Sadguru Complex I, Near Vagheshwari, Gen. A.K. Vaidya Marg, Goregaon (East), Mumbai - 400 063 (India).
### SOME OF THE PUBLICATIONS OF THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>INDIAN JOURNAL OF AGRICULTURAL ECONOMICS 1940-1964 - SELECTED READINGS (1966)</td>
<td>25.00</td>
</tr>
<tr>
<td>2.</td>
<td>EVALUATION OF LAND REFORMS (with special reference to the Western Region of India) by Professor M.L. Dantwala and Dr. C.H. Shah (1971)</td>
<td>15.00</td>
</tr>
<tr>
<td>3.</td>
<td>COMPARATIVE EXPERIENCE OF AGRICULTURAL DEVELOPMENT IN DEVELOPING COUNTRIES OF ASIA AND THE SOUTH-EAST SINCE WORLD WAR II (1972)</td>
<td>45.00</td>
</tr>
<tr>
<td></td>
<td>Cloth bound $ 9.00, £ 3.60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Card bound</td>
<td>30.00</td>
</tr>
<tr>
<td>4.</td>
<td>AGRICULTURAL DEVELOPMENT IN INDIA: THE NEXT STAGE (1988)</td>
<td>190.00</td>
</tr>
<tr>
<td>5.</td>
<td>AGRICULTURAL DEVELOPMENT POLICY: ADJUSTMENTS AND REORIENTATION (1990)</td>
<td>250.00</td>
</tr>
<tr>
<td>6.</td>
<td>INDIAN AGRICULTURAL DEVELOPMENT SINCE INDEPENDENCE Edited by Professor M.L. Dantwala (Second Revised Edition, 1991)</td>
<td>295.00</td>
</tr>
<tr>
<td></td>
<td>Vol.I $69.95</td>
<td>795.00</td>
</tr>
<tr>
<td></td>
<td>Vol.II $65.95</td>
<td>695.00</td>
</tr>
</tbody>
</table>

### SEMINAR SERIES

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.</td>
<td>No. IV. SEMINAR-CUM-WORKSHOP ON PROBLEMS OF FARM PRODUCTION PLANNING AND PROGRAMMING (1964)</td>
<td>10.00</td>
</tr>
<tr>
<td>9.</td>
<td>No. VI. SEMINAR ON FARM PRODUCTION PLANNING AND PROGRAMMING (1965)</td>
<td>8.00</td>
</tr>
<tr>
<td>10.</td>
<td>No. VIII. SEMINAR ON FOODGRAINS BUFFER STOCKS IN INDIA (1969)</td>
<td>12.00</td>
</tr>
<tr>
<td>11.</td>
<td>No. XII. SEMINAR ON RURAL DEVELOPMENT FOR WEAKER SECTIONS (1974)</td>
<td>25.00</td>
</tr>
<tr>
<td>12.</td>
<td>No.XIII. SEMINAR ON THE ROLE OF IRRIGATION IN THE DEVELOPMENT OF INDIA’S AGRICULTURE (1976)</td>
<td>30.00</td>
</tr>
<tr>
<td>13.</td>
<td>No.XV. SEMINAR ON CROP INSURANCE (1983)</td>
<td>60.00</td>
</tr>
<tr>
<td>14.</td>
<td>TECHNOLOGY OPTIONS AND ECONOMIC POLICY FOR DRYLAND AGRICULTURE: POTENTIAL AND CHALLENGES Edited by Dr. N.S. Jodha (1989)</td>
<td>250.00</td>
</tr>
<tr>
<td>15.</td>
<td>LIVESTOCK ECONOMY OF INDIA (1989)</td>
<td>95.00</td>
</tr>
<tr>
<td>16.</td>
<td>NON-AGRICULTURAL EMPLOYMENT IN INDIA: TRENDS AND PROSPECTS Edited by Dr. Pravin Visaria and Dr. Rakesh Basant (1994)</td>
<td>360.00</td>
</tr>
<tr>
<td>17.</td>
<td>AGRICULTURAL DEVELOPMENT IN HILLY AREAS: CONSTRAINTS AND POTENTIAL Edited by Dr. S. L. Shah (1996)</td>
<td>250.00</td>
</tr>
<tr>
<td>18.</td>
<td>MECHANISATION OF PUNJAB AGRICULTURE AND ITS IMPACT Edited by T.S. Chahal (1999)</td>
<td>400.00</td>
</tr>
<tr>
<td>19.</td>
<td>RETHINKING ON MICROFINANCE Edited by N.A. Mujumdar and M.G. Shirahatti (2011)</td>
<td>400.00</td>
</tr>
</tbody>
</table>

Note: No. 4 and 19 can be had from:
HIMALAYA PUBLISHING HOUSE,
Ramdoot, Dr. Bhalerao Marg, Girgaon, Mumbai-400 004.
No. 7 can be had from:
OXFORD & IBH PUBLISHING CO. PVT. LTD.,
66, JANPATH, New Delhi-110 001.
No. 13 from:
ACADEMIC FOUNDATION,
4772-73/23, Bharat Ram Road, (23 Ansari Road),
Darya Ganj, New Delhi-110 002
No. 15 from:
SAGE PUBLICATIONS INDIA PVT. LTD.,
M-32, Greater Kailash Market, New Delhi-110 048.
No. 16 from:
NEW AGE INTERNATIONAL PUBLISHERS,
4835/24, Ansari Road, Daryaganj, New Delhi-110 002.
No. 17 from:
Khalsa College, Amritsar-143 002.
The rest can be had from:
THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS,
C-104, First Floor, Sadguru Complex I,
Near Vagheswari, Gen. A.K. Vaidya Marg,
Goregaon (East), Mumbai – 400 063.
The hydrologic consequences of land cover change in central Argentina. Agric Ecosyst Environ 154:2–11

The benefits and costs of urban greening. In: Krishnamurthy L, Nascimento JR (eds) Draft document to be published in proceedings of urban greening seminar held at Mexico City December 2-4.

Water and hygiene interventions to reduce diarrhoea in rural Afghanistan: a randomized controlled study. This report assesses the performance of agricultural and food policy in India and calculates a set of policy indicators providing a comprehensive picture of agricultural support. These indicators, developed by the OECD, are already used regularly in the analysis of the agriculture and food sector in 51 OECD countries and emerging economies and are now available for India for the first time. Government intervention in India is found to provide both negative and positive support to agriculture, with market and trade interventions often depressing prices, while subsidies to fertilisers, water, po