



National Workshop  
on  
**STRESS AGRICULTURE  
AND CLIMATE CHANGE:  
EXPLORING SYNERGY WITH  
NATURAL RESOURCE  
MANAGEMENT IN AGRICULTURE  
(NaRMA-III)**

December 21-22, 2011

*Venue:*

**Agricultural Research Station**  
(SK Rajasthan Agricultural University)  
Mandor-Jodhpur 342 304

*Organized by:*

PROM Society, Udaipur & SK RAU, Bikaner

*In Collaboration with*



RSMML, Udaipur

CAZRI, Jodhpur

AFRI, Jodhpur

JNVU, Jodhpur

RAU, Jodhpur

उत्तमा वृत्तिस्तु कृषिकर्मव



## INTRODUCTION

The **Phosphate Rich Organic Manure (PROM) Society** was formed by a group of more than 180 scientists representing Agriculture, Botany, Microbiology, Engineering and other related disciplines. The society was inspired by the idea of developing low cost organic manure, enriched with a natural mineral, the rock phosphate. The Rajasthan State Mines and Minerals Ltd. (RSMML), MLSU, Udaipur and SK RAU, Bikaner (AES, Durgapura, Jaipur) were the institutes and centers which patronized the pioneering efforts of developing PROM technology as alternative to cost intensive phosphatic fertilizers like DAP and SSP. The PROM Society gradually became poised to address issues of Natural Resource Management in Agriculture. The paradigm evolution in the theme is evident in the publications of **PROM & NaRMA reviews**.

The **NaRMA-I** was organized at ARS, Durgapura, Jaipur in 2008 and The NaRMA-II was organized at Udaipur in December 2010 under the aegis of PROM Society and Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur. The MLSU and RSMML, Udaipur co-sponsored the Symposium.

**This year a National Workshop on Stress Agriculture & Climate Change: Exploring Synergy with Natural Resource Management in Agriculture (NaRMA-III) is being organized at ARS, Mandor, Jodhpur under the joint aegis of PROM Society and SK RAU, Bikaner on 21-22 December, 2011. The RSMML, Udaipur, CAZRI, AFRI, JNVU and RAU (Jodhpur) are supporting the event as collaborators.**

**Stress agriculture** is an emerging concept of agricultural production under sub-optimal and stressful environments. The research encompasses basic and applied aspects of biotic and abiotic Stress tolerance and management in fragile arid and semi-arid ecosystems. A natural affinity with an upfront research imperative - **The climate change** is evident, which, in a way, is up-scaling of environmental oscillations, *vis a vis* it has its own dimensions in terms of global warming, melting of glaciers, rising sea levels, increasing levels of CO<sub>2</sub> and other green house gases and their impact on agricultural productivity and food security. The Natural Resource Management in Agriculture (NaRMA) offers technological interventions for sustainable agricultural development, particularly emphasizing Eco-balance and environmental preservation.

Research, overview and lead papers are invited for presentation during the workshop. Efforts would be made to identify points of synergy with natural resource management in agriculture with a focus on stress tolerance, management and strategic approach to mitigate the impacts of stress and climate change on Indian agriculture and food security.

The technical programme would also include a panel discussion on **Status and Prospects of Fortified Organic Manures** and **Demonstration of Production of PROM**.

The papers and articles received would be subjected to editorial review and would be made online as collection of knols. Selected papers and articles will subsequently be published in book form. Contributions are invited from following disciplines and themes.



## DISCIPLINES & THEMES

### 1. Agricultural Sciences

Sustainable crop production under stress environments PROM, biofertilizers and organic manures in sustainable agriculture Organic, integrated organic & green agriculture Biotic and abiotic stress management for sustainable agriculture

### 2. Horticultural Sciences

Arid Food, fruits and vegetables, Hi-tech arid horticulture Production & processing technology for arid food. Value addition & post harvest technology Hi-tech horticulture

### 3. Veterinary and Animal Sciences

Impact of stress and climate change on animal health and production  
Indigenous cattle & natural resource management Panchgavya technology  
Integrated farming system

### 4. Engineering Science and Technology

Minerals in agriculture Nano-technology Bio-methanation

### 5. Environmental Sciences and Agro-Meteorology

Water management Soil health Bioremediation Predictive modeling  
Impact and mitigation of climate change

### 6. Biology

Plant Neurobiology Plant Signaling Consciousness and Converging Technologies

## CALL for PAPERS

Abstracts based on research work and experiences may be submitted press ready. The abstracts not exceeding 500 words should have a title **CAPITAL AND BOLD FONT SIZE 14 Arial** followed by the name of the author (s) and institutional address (normal font size 12). The text should contain a brief Introduction, Material and Methods, Results and Discussion. A hard copy of the abstract (A-4) along with CD formatted on MS word, in single line spacing font size 12 with 4 cm left, 2.5 right, top and bottom margins be sent to the Organizing Secretary by **15<sup>th</sup> November, 2011**. Full length paper of accepted article may be sent by 30<sup>th</sup> November, 2011. Abstract and full length paper should also be e-mailed as attachment word file (.doc version of word file format)

## REGISTRATION

The seminar is open to the registered delegates only. Registration form attached herewith or its Photocopy should be filled and mailed so as to reach the Organizing Secretary along with Demand Draft of registration fee favoring Organizing Secretary, National Workshop, Jodhpur - 2011 payable at Jodhpur before **15<sup>th</sup> November, 2011**. The prescribed rates of registration are:

|                        |          |                     |           |
|------------------------|----------|---------------------|-----------|
| <b>For Non Members</b> | Rs. 2000 | <b>For Members</b>  | Rs.1500   |
| For Students           | Rs.500   | Foreign delegates   | US \$ 200 |
| Progressive farmers    | Rs.200   | Accompanying person | Rs. 500   |



## SPONSORSHIP & ADVERTISEMENT TARIFFS

|                                  |              |                       |              |
|----------------------------------|--------------|-----------------------|--------------|
| Sponsorship (Indian)             | Rs. 1,00,000 | Sponsorship (Foreign) | US \$ 10,000 |
| Co-sponsorship                   | Rs.50,000    | Back page coloured    | Rs.30,000    |
| Front & back inside colour cover | Rs.20,000    | Full page B/W         | Rs.10,000    |
| Half page B/W                    | Rs.5,000     | Quarter page B/W      | Rs.3,000     |

## ACCOMMODATION

The stay arrangement can be made in near by hotels having tariff ranging between Rs. 1000 for double bed non AC and Rs.1500 and above for AC Rooms. Luxury Hotels with higher tariffs are also available. Booking will be made only for those who will send requisite amount in advance through demand draft or cheque payable to Organizing Secretary, National Workshop, Jodhpur 2011.

## ABOUT THE VENUE

Agricultural Research Station Mandor-Jodhpur is located on Jodhpur - Bikaner National highway No. 65, about 10 km away from Jodhpur Railway Station. The city is well connected by Air, Rail and Bus from various corners of the country. Jodhpur is situated in western part of Rajasthan and popular as Sun City. The place is well known for its heritage, culture, fine arts, music, literary and scholarly pursuits, and educational institutes. Jodhpur is also known for sweet and spicy cuisines. The Mehrangarh fort and Umed Bhawan Palace are the famous tourist attractions.

## WEATHER

The weather at Jodhpur during December is of peak winter. Warm clothing would be necessary.

## PATRONS

|                                  |                                   |
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| <b>Dr. A.K. Dahama</b>           | Vice-Chancellor, SKRAU, Bikaner   |
| <b>Shri Ajitabh Sharma (IAS)</b> | Managing Director, RSMML, Udaipur |
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| <b>Dr. R.S. Sharma</b>           | Vice-Chancellor, RAU, Jodhpur     |
| <b>Dr. M.M. Roy</b>              | Director, CAZRI, Jodhpur          |
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## ABOUT PROM SOCIETY

[www.promsociety.net](http://www.promsociety.net)

The PROM Society was formed by a group of more than 140 scientists, engineers and other professionals who were involved in the development of PROM technology. So far 24 industries have joined as institutional members and has 18 distinguished fellow (honorary) members. The Society welcomes those interested in the development & popularization of PROM technology and promotion of Natural Resource Management in Agriculture to join as members/ institutional members.

### EXECUTIVE COUNCIL

|                           |   |
|---------------------------|---|
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| <b>Vice President</b>     | : Shri Hari Mohan Gupta, Jaipur<br>Shri Shankar Lal, Secunderabad<br>Shri. D.S.Bhandari |
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|  |  |
|--|--|
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| Prem Sakhi Fertilizer, Udaipur                 | Hyderabad Industries Ltd., Kolkata           |
| Patel Enterprises, Udaipur                     | Viswa Krishi Vikas, Secunderabad             |
| Mitra S.K.Pvt. Limited, Kolkata                | Excel Industries, Mumbai                     |
| Jubiland Organosys Ltd., Noida (U.P)           | Liladhar Biyani Salt Petre Ltd., Hanumangarh |
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| Maple Orgtech (India)Ltd.,                     | Mcnalley Bharat Engg.Co.Ltd., Bangalore      |
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| Tradex India Corporation Pvt.Ltd., New Delhi   | Dayal Fertilizers (P) Ltd., Ghaziabad        |
| BSE Biotech Pvt. Ltd.                          | Indian Potash Limited, New Delhi             |
| Seasons Agro Chem Pvt. Ltd.                    | J.P.M.C. Jordan                              |
|  | L.L. Namibia Phosphate (Pvt.) Ltd., Namibia  |

### Contact:

**Dr. K.K. Bora**

Organizing Secretary

National Workshop, Jodhpur 2011 (NaRMA-III)

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## REGISTRATION FORM

Dr / Mr / Ms. / Mrs. \_\_\_\_\_

Designation \_\_\_\_\_

Organisation \_\_\_\_\_

Mailing Address \_\_\_\_\_

email: \_\_\_\_\_

Phone: \_\_\_\_\_

Mobile: \_\_\_\_\_

Paper / Poster Presentation :  Yes  No

If yes, the title of the paper / poster \_\_\_\_\_

I enclose a bank draft or cheque (any where banking) towards registration fee for a sum of \_\_\_\_\_

in words (Without / with \_\_\_\_\_ accompanying persons) \_\_\_\_\_

by DD. or Cheque No. \_\_\_\_\_

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Branch \_\_\_\_\_ in favour of Organizing Secretary, National

Workshop Jodhpur, 2011 . Payable at Jodhpur (Raj.)

Accommodation :  Needed  Not Needed

If needed advance payment of ₹1000/- be sent with Details of DD. Mention at the back Name of Person, Address, Date and time of Arrival and Departure.

(use separate paper for accommodation detail if needed)

Last date to send the registration form along with registration fee and accommodation is 15th November, 2011 to The Organizing Secretary. The photocopy of this form can also be used .

Date \_\_\_\_\_

Signature \_\_\_\_\_