

# Thirty Fourth

Annual Report

2013-14



## About CropLife India

Croplife India is an Association of Technology driven Plant Science Industry, committed to responsible crop care for safe and sustainable development of Indian Agriculture.

CropLife India promotes the benefits of responsible use of Crop Protection Products, as well as sound regulatory frameworks in support of sustainable agriculture in India. We are a unit of CropLife International, a global federation of the plant science industry in over 90 countries.

CropLife India believes in a strong and science-based regulatory system to protect people and the environment such that timely access to new crops, new Crop Protection Products or new uses for existing Crop Protection Products is promoted.

CropLife India works in close co-ordination with CropLife Asia & CropLife International, the parent organizations, to drive its programme on Stewardship, Regulatory, IPR/Data Protection, Promotion of Safe, Responsible & judicious use of Crop Protection Products under IPM approach.

CropLife India is a non-profit organization, wholly funded by membership.

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## Annual Report 2013-14

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### Members

BASF India Ltd., Mumbai  
Bayer CropScience Ltd., Mumbai  
Cheminova India Ltd., Mumbai  
Chemtura Chemicals India Pvt Ltd, New Delhi  
Dow AgroScience India Pvt. Ltd, Mumbai  
E.I. DuPont India Pvt. Ltd., Gurgaon  
Excel Crop Care Ltd., Mumbai  
FMC India Private Ltd, Bangalore  
Indofil Chemicals Company, Mumbai  
Isagro (Asia) Agrochemicals Pvt. Ltd., Mumbai  
MakhteshimAgan India Ltd, Hyderabad  
Monsanto India Ltd., Mumbai  
Rallis India Ltd., Mumbai  
Sumitomo Chemical India Pvt. Ltd., Mumbai  
SWAL Corporation Ltd., Mumbai  
Syngenta India Ltd., Pune

### Bankers

Central Bank of India  
Ashoka Hotel Branch  
New Delhi - 110021

Punjab National Bank  
Bhikaji Cama Place  
New Delhi - 110066

### Auditors

M/s Gupta S Narain & Co.  
Chartered Accountants  
21-A, GH-10, Sunder Apartments  
Paschim Vihar  
New Delhi - 110087

**Accountants**

M/s Alok B Mathur & Co.  
Chartered Accountants  
419, Ansal Chambers - II  
6, Bhikaji Cama Place  
New Delhi - 110066

**Registered Office**

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6, Bhikaji Cama Place  
New Delhi - 110 066.  
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Telefax: 011-26196681  
E-mail: ceo@croplifeindia.org

**Directors**

Terms of all the Directors expired at the time of thirty third Annual General Meeting which was held on 20th September 2013 at New Delhi. New Directors were elected to the Board.

Mr. Anil Jain was re-elected as Chairman and Dr. H.V.S. Chauhan was re-elected as Vice Chairman. Mr Ram Mudholkar was re-elected as Vice Chairman.

**Board Meetings**

The Board of Directors met four times during the year 2013-2014 to discuss key issues confronting the industry and other agenda items.

## Foreword

After a challenging 2012-13, Agriculture Sector registered a growth of 4.7% in 2013-14 when compared to 1.4% growth in 2012-13. Agricultural exports also registered an increase of 5.1% in 2013-14 contributing to 12% of the total exports of the country. The food grains production was at 265 million tonnes but will fall short of the target set under National Food Security Mission and an additional 25 million tones food grains production is needed by 2016-17.

Given the challenges of food security, CropLife India strongly advocated introduction of newer technologies to improve productivity as well as protect the crop from pests and diseases. In India, according to Yes Bank-ASSOCHAM study, crop losses due to pests and diseases were estimated at Rs 50,000 Crores. This is in line with earlier estimates done by CropLife which had pegged the losses to Rs.60,000 crores. Post-harvet losses amount to another Rs.30,000 crores.

Hence, introduction and propagation of new technologies for Crop Protection in agriculture is of paramount importance to the nation. At the same time protecting farmers interest by providing the essential stewardship practices and helping them buy genuine products was also the focus of CropLife India to ensure safe and secure food supply that has been produced in a sustainable manner.

Indian regulation of crop protection products has helped bring in new technologies to Indian agriculture. However, there have been regulatory challenges such as delays in registration of newer molecules, facilitation of innovation in existing chemistries through minor changes to formulants, expedited harmonization with global best practices to facilitate innovation and faster registration of molecules at lower cost.

CropLife India continued to work on the regulatory issues more intensively by organizing policy workshops on important topics such as Principles of Minor Changes Regulation and Global Mathematical Models on risk assessment of Operator Exposure models. I congratulate the Regulatory affairs team for their efforts, and the support given by CropLife Asia. The excellent work done by CropLife Regulatory team has also been recognized by CropLife Asia, which conferred with CropLife Asia's 2013 Regulatory



**Mr. Anil Jain**  
Chairman, CropLife India

Excellence Award in recognition of dedicated teamwork in pursuit of improving the regulatory landscape for pesticides registration in India.

In our pursuit towards sustainable agriculture, we continued to reach out to more and more farmers on stewardship practices to ensure that the farmers use the right Crop Protection Products at the right time and in a safe manner. Our projects in Adoni on Responsible Use & Safe Storage, and in Ananthavarapadu on Container Management revealed that through demonstration and farmers' training, sustainable agriculture could be advocated while enduring to improve productivity. Further, on improving productivity, CropLife India expanded its efforts to reach out to more farmers in the Hoogly and Burdman District of West Bengal to propagate Hybrid Rice cultivation with prescribed package of practices.

Finally, I would like to mention that the menace of illegal and spurious pesticides continued to plague farmers and industry. CropLife India stepped up its efforts to fight this menace through farmers & dealers training and strong policy advocacy.

I thank the member companies for investing their time and resources to work towards the objectives of CropLife India. I congratulate all members of CropLife India Anti Counterfeiting Group, Legal Affairs Group, Marketing Group, Regulatory Affairs Group and the Stewardship Group for their contributions.

Anil Jain  
Chairman

## 1. Policy Advocacy

CropLife India continued its efforts on Policy Advocacy to facilitate a enabling regulatory environment for the Crop Protection Industry. CropLife India also advocated progressive regulation based on international best practices.

### a) Mathematical Modeling for Spray Operator Risk Assessment

The Registration Committee constituted a group with Dr. D. Kanungo as Chair to examine and recommend the mathematical modeling that can be used for risk assessment of pesticide exposure to personnel during spray operation (in lieu of the earlier requirement of health monitoring studies on human volunteers and toxicity to livestock).

CropLife India took the lead to facilitate sharing of best globally practiced models and organized a two days intensive interaction with Dr. Kanungo committee members and CropLife International experts in Delhi.

### b) Pollinators Health

In the backdrop of the Pollinator Health issue that emerged from EU, Indian regulators decided to examine the issue of pollinator health in India. CropLife India ensured that scientific intelligence is provided to the Expert Committee that was formed by the Ministry of Agriculture. CropLife India facilitated presentations by Global Pollinators Experts from CropLife International.

### c). Guidelines on usage and storage of pesticides as per FAO Code

CropLife India's continuous dialogue with Ministry of Agriculture and Central Insecticides Board & Registration Committee facilitated formation of a sub-committee, under the Chairmanship of Plant Protection Adviser to frame the relevant Indian guidelines in accordance to the FAO Code of Conduct.



#### d) Re-evaluation of Toxicity Triangles of Labels

CropLife India's strong policy advocacy to assign the Toxicity Triangles on label and leaflets on the basis of the toxicity of the formulation led to the regulator requesting CropLife India to work out the modalities for its implementation. A base paper was submitted to the regulators.

#### e) Harmonization of the data requirement as per OECD and EU guideline

The continuous inputs provided by CropLife India had assisted in development of the protocols as per OECD guidelines, which was later finalized by the Registration Committee.

#### f) Formulation Import without registering technical

The Hon'ble Gujarat High Court of Gujarat issued an "interim stay order" on the approval of Formulation Import without registering the technical in response to a petition.

The Gujarat High Court in its modified Order dated 28th March, 2014 stated that each consignment of formulation which is imported may be verified and tested so that it matches with the technical grade/material regarding specification and quality.

CropLife India will continue to work with the Government on the issue to ensure that latest molecules that are registered as formulation imports without registering technical are available for the farmers in time.

## 2. Policy Events

CropLife India, in its endeavor to promote progressive regulation that would facilitate innovation and help disseminate global best practices organized two workshops during the year 2013-14.

### a) Principles of Minor Change Regulation

CropLife India organized a Workshop on “**Principles of Minor Change Regulation and Data Bridging Concepts**” on 21-22 November 2013 at New Delhi. The Workshop was supported by Department of Agriculture and Co-operation, Government of India. The Workshop was presided over by Regulators, scientists, academicians and industry. Dr Gurbachan Singh, Chairman, Registration Committee inaugurated the workshop and also presided over the valedictory session where the recommendations of the workshop were presented. The Workshop recommendations were finalized in discussion with experts from Central Insecticides Board and Registration Committee.



**Left to Right:** Dr Vasant Patil, Director- Regulatory Affairs, CropLife Asia, Dr B S Phogat, Secretary, CIB&RC, Dr Gurbachan Singh, Chairman, Registration Committee, Mr Anil Jain, Chairman, CropLife India at the Inaugural Session of the Workshop

### The major recommendations of the Workshop were:

- Improving technical performance of crop protection formulations is a sustainable and dynamic process and considered as a need of the hour, which eventually benefits farmers with new, modified or more advanced formulations.
- Minor change regulation of crop protection formulations does exist as an international practice and in various countries is already in practice as a pragmatic approach to regularize the changes in formulants.

- The workshop recommends in principle the adoption of data bridging concept as a generic issue.
- Qualification and quantification of the criterion for adoption of data bridging concept needs to be deliberated and documented and submitted to the Registration Committee for its evaluation and adoption.
- The concept of Crop Grouping has been highly emphasized and it was noted that the expert group recommendation has already been notified on CIB&RC website inviting public comments. The workshop recommended that after due examination of the public comments, the final guidance document could be prepared for adoption by Registration Committee after due evaluation.
- The representative crops need to be identified based on the groups and sub groups recommended by sub-committee and the list of India specific crops, which are not figuring currently in the Codex list, need to be incorporated.
- To organize a training cum interaction program on FAO/WHO guidelines on chemical equivalence principles, data bridging guidelines and FAO specifications etc., in the year 2014.

#### b) Prescription Of Mathematical Modelling For Spray Operators Exposure Studies

The Registration Committee in its 341 meeting held on 7.08.2013 while deliberating the Harmonization of the data Requirement as per OECD and EU Guidelines formed a Committee under the Chairmanship of Dr. D. Kanungo to prescribe Mathematical Model for Spray Operators Exposure. The Committee decided to develop country specific model to undertake risk assessment of spray operators.

CropLife India following the Registration Committee's decision organized a Workshop on 30-31 October 2013 in Delhi to sensitize the sub-committee members on the subject. International experts from CropLife International presented different models being used globally including their merits and demerits.

### 3. Anti Counterfeiting

CropLife India continued its engagement to deal with the menace of illegal / spurious crop protection products. CropLife India engagement was through policy advocacy and farmers & dealers training.

The Anti Counterfeiting activities of CropLife India was focused on 5 states that account for more than 80% of total Crop Protection market and also have the highest incidence of illegal / spurious crop protection products.

The following major activities were undertaken during the year:

- Policy advocacy with federal and state governments
- Stepping up farmers' awareness and Poster campaign
- Training programmes for dealers/retailers
- Media Monitoring.

Sensitization on the proliferation of Counterfeit products and its impact on farm productivity and livelihoods of farmers were done for the States of Andhra Pradesh, Maharashtra, Gujarat, Karnataka and Tamil Nadu. The State Governments appreciated our efforts and assured action on illegal/spurious products.



CropLife India continued its efforts to train farmers and dealers on the ill effects of using chemicals that are unknown and are available in the form

of illegal / spurious products. More than 500 farmers' training sessions were conducted covering 25,000 plus farmers. Poster Campaign was also undertaken with key messages displayed at retailers and market places in 5 languages – Telugu, Tamil, Kannada, Marathi and Gujarati.



Poster Campaign in Karnataka

CropLife India also conducted training programme for dealers in the 5 focus states. About 250 plus dealers were trained by CropLife India.



Dealers Training Programme

Member companies also sponsored their dealers for a training programme conducted by the National Institute of Plant Health Management, Hyderabad.

## 4. Stewardship

- a) Stewardship is one of pillars of CropLife India's engagement. CropLife India strongly believes that Stewardship is a investment and makes good business sense. Stewardship facilitates infusing new technologies in Indian Agriculture. CropLife India's stewardship activities were focused on responsible & safe use, new technologies for improving rice productivity and Empty Pesticides Container Management.

### A. Responsible Use and Safe Storage Project

CropLife project on Farmers Training on Responsible Use and Secure Storage of Pesticides at Adoni, Kurnool district of Andhra Pradesh executed through local partners since four years successfully accomplished its aim of covering 100,000 farm families.

Farmers' training covered a wide range of topics including crop / pest knowledge, IPM – identifying beneficial insects, buying and transportation of pesticides, PPE, correct spraying techniques, maintaining sprayer and nozzles, triple rinsing of empty containers and the secure storage of crop protection products.



Demonstration of Personal Protection Equipment



Secure Storage

The Project has enabled farmers to identify beneficial insects, read labels, take all the precautions while buying and carrying pesticides, store them safely and use PPE. Our engagement with Children through school education has helped Children teach and coach their parents, many of whom are not educated.

The project has achieved successful implementation with visible results. The project has brought in attitudinal change for farmers and this model is ready for adoption on a larger scale.

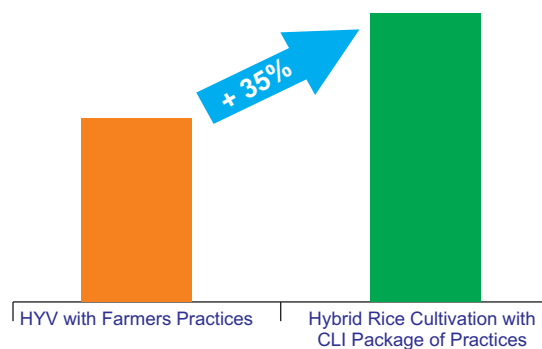
### B. Bringing Green Revolution in Eastern India: Hybrid Rice Cultivation

Complementing the Government of India programme on Bringing Green Revolution to Eastern India, CropLife India implemented a pilot project on hybrid rice cultivation in State of West Bengal. The project,

with the objective of creating awareness on newer technologies in Rice cultivation, created awareness on cultivation of Hybrid Rice with package of practices (in the context of Integrated Pest Management) such as responsible and safe use of crop protection products, identification of beneficial insects, single plant transplanting, balanced dose of N.P.K, reduced levels of irrigation requirements and harvesting.

The project initiated since 2010 covered 1000 farmers in Hoogly and Burdman Districts of West Bengal. The productivity improvements witnessed were encouraging for farmers to adopt Hybrid Rice cultivation with responsible package of practices.

#### Productivity Improvement through Hybrid Rice Cultivation



The project is in its final year and adoption of package of practices by farmers themselves makes the package of practices along with hybridization replicable. The project has also demonstrated functional collaborative approach with key stakeholders like Department of Agriculture, Government of West Bengal, BCKV Agriculture University and Industry.

#### C. Empty Pesticides Container Management

The first pilot project in India on empty pesticides Container Management Programme was initiated by CropLife India in Ananthavarapadu Village of Andhra Pradesh.

The objective of the Pilot was to create awareness for safe, effective and responsible management of empty Crop Protection containers thereby Promoting Environmental, Public Health and Sustainable agricultural best practices.

The pilot covered about 570 farmers and their families of the village including women and children. Since October 2012, a total of 252 training sessions were conducted covering every one in the village.



A total of 1400 kgs of HDPE empty containers were collected after they were triple rinsed and incinerated at licensed incineration facility. The farmers submitted the empty containers to CropLife India project team without any consideration during the second year of the project.

The Government of India Constituted a Committee to recommend measures for Safe Disposal of Empty Pesticides Containers in November 2013. CropLife India prepared a white paper based on the CropLife India pilot project on Container Management and submitted to the Government Committee.

The paper highlighted four key areas to be addressed by the Government for successful implementation.

- Shift in policy from “dump to control” to “recycle to prevent”
- Promote proper decontamination of used pesticide containers among farmers



- Prevent household use and inappropriate recycling of used containers
- Develop a robust mechanism for down stream handling

CropLife International experts as well as CropLife India team presented global best practices and the learning from the India Project to the members of the Government Committee in May 2014. A visit for the Government committee members to the project site was also organized.



**Dr Ram Asre, Additional Plant Protection Advisor and Director-in-Charge, National IPM Programme at the project site visit.**

The project has achieved its objectives and also provided a successful pilot for Department of Agriculture, that is replicable in other States of India.

## 5. Networking

CropLife India worked closely with other industry bodies in the areas of Policy Advocacy and Policy Events. CropLife India was a supporting Partner of FICCI's 3rd Agro Chemicals Conclave held on June 30-31, 2013 at New Delhi.

Mr Ram Mudholkar, Vice Chairman, CropLife India was the Chairman of the FICCI event and Members companies of CropLife India participated at the event. The event focused on regulatory issues, role of R&D, innovation and sustainability among other issues.



Mr Ram Mudholkar, Vice Chairman, CropLife India at the FICCI Event

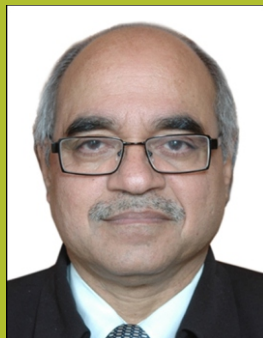
CropLife International and CropLife Asia supported CropLife India on Regulatory, Stewardship and Anti-counterfeiting areas of engagement. Dr Keith Jones, Director-Stewardship and Mr D'Arcy Quinn, Director- Anti Counterfeiting, CropLife International, Dr Vasant Patil, Director-Regulatory Affairs, Mr Mathew Kovac, Director-Outreach & Communications and Mr Raghavan Sampathkumar, Director-Stewardship, from CropLife Asia visited India and interacted with the Policy makers and the regulators.

CropLife India would like to acknowledge and thank all colleagues of CropLife International and CropLife Asia for their support and advice.

## CropLife India Leadership



**Mr. Anil Jain**  
Chairman, CropLife India  
& Chief Marketing Officer  
Bayer Crop Science Ltd.



**Dr. HVS Chauhan**  
Vice-Chairman, CropLife India  
& Executive Vice President  
Indofil Industries Ltd.



**Mr. Ram Mudholkar**  
Vice-Chairman, CropLife India  
& Business Director Dupont  
India Pvt. Ltd.



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