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TWO DAY COMPREHENSIVE WORKSHOP

# JATROPHA

## PRODUCTION TO APPLICATIONS

*- from Nursery to Post Harvest*

**20-22 August 2008**

**JW Marriott Hotel, Kuala Lumpur, Malaysia**

*Presented by an expert with extensive & practical experiences.*

*Register Early for this Interactive Workshop.*

*3rd Day Site visit to 1-3 acre Jatropha Nursery*

*Post workshop with continuing discussions...*

promotion partners



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## Two day workshop will address the complete value chain of *Jatropha curcas* focusing on its cultivation, management and business potential from farmers' perspective.

### Day 1

Wednesday, 20<sup>th</sup> August 2008

#### Session I

- Potential of *Jatropha* as an energy crop
- *Jatropha* and other local oil bearing species
- Advantages of *Jatropha* cultivation
- Sustainable models of *Jatropha* cultivation

#### Session II

- *Jatropha* nurseries, clonal propagation
- Seedling and cuttings for plantation
- Commercial nurseries; plans and costs
- Organic interventions for disease control and rapid growth
- Controlled environmental chambers for least mortalities
- Disease management in nurseries

#### Session III

- *Jatropha* improvement for enhanced productivity
- Selections of elites of *Jatropha*
- Registration of varieties and cultivars

#### Session IV

- Intercropping models
- Intercropping of other plants with *Jatropha curcas*
- Intercropping of *Jatropha curcas* with palm and rubber
- Intercropping of traditional crops with *Jatropha curcas*
- Biodiversity, CBD and *Jatropha curcas*

### Day 2

Thursday, 21<sup>st</sup> August 2008

#### Session I

- Commercial plantation of *Jatropha curcas*
- Organic interventions to reduce carbon leakages
- Sustainable practices of *Jatropha curcas* cultivation
- Silviculture for enhancing productivity
- Methodologies for making plantation suitable for carbon credits

#### Session II

- Plantation of *Jatropha curcas* in degraded, marginal and deficient soil conditions
- Drought, salinity, alkalinity and stress tolerance
- Pest and disease management
- Nutrient requirements vis-à-vis productivity
- Post harvest management

#### Session III

- Value addition in *Jatropha curcas*, its byproducts
- Value chain of *Jatropha curcas*
- Oil extraction from *Jatropha curcas* seeds
- Biodiesel process and its properties
- Involvement of farmers and social groups in its management

*Inviting Malaysian officials to join in Discussions*

#### Session IV

- Discussion on controversies such as:
- Does *Jatropha* compete with food?
- Has *Jatropha* cultivation increased food prices? Is *Jatropha* toxic to soil and environment?
- Could *Jatropha* kill population and thus is a social risk?
- Is *Jatropha* a weed?
- Does *Jatropha* leave your soil unproductive and cause degradation?
- Is *Jatropha* economically feasible crop?

#### Concluding Session

- Biodiesel industry, Discussions, Local issues, Case studies, Your project and Follow up

### Day 3

Friday, 22<sup>nd</sup> August 2008

**Site Visit** (to be advised)

#### Who Should Attend

- *Jatropha* Oilseed Processors/Assessors
- Biotechnology Researchers • Project/Plantation Managers • Agronomists • Geneticists • Scientists
- Irrigation Support & Equipment Fertilisers
- including VP Technology, Commercial Managers, Agronomy Engineers, Head of Biofuels & Seeds, Contracting Manager, Operations & Plantations Manager, Professors & Researchers with Universities and Institutes, Project Managers with Department of Agriculture, Contract Farming Companies, Micro Finance Companies*



## COURSE LEADER

### Dr Hari M Behl

Coordinator Jatropa Network  
Department of Biotechnology,  
Government of India  
Consultant Biotechnology Park, India

Dr Behl was earlier senior scientist at the National Botanical Research Institute (CSIR), India. He was national Coordinator for other bioenergy crops such as Neem, Jojoba, Guayule, Euphorbias etc. He is a Senior Fulbright Fellow and was on faculty at University of California, Irvine, USA and Visiting Fellow at University of London and Kew Botanical gardens.

Dr Behl has extensive research experience on Biomass, Bioenergy, Biofertilizers, Biofuels and Biodiesel. He has supervised several students on topics related to biomass and bioenergy. He has more than 100 publications, 10 books and ten filed patents to his credit. He has developed commercial turnkey nurseries for international agencies. He has practical experience in plantation of Biofuel crops, including Jatropa curcas in a variety of soil types. He is on expert panels of several companies and organizations.

### COURSE TIMING

Registration : 8:00am  
Workshop Proper : 9:00am – 5:00pm  
Lunch : 12:30pm – 1:30pm  
Tea/Coffee Break : 15 mins

### CD & NOTES

You will be provided CD of the workshop presentations. With your notes, this will be valuable commitment of your professional advancement in the Jatropa emerging industry.

### CERTIFICATE OF COMPLETION

A Certificate of Completion will be awarded upon successful completion of each course. This serves as evidence of your personal and professional commitment to you career.

## ESSENTIAL PRACTICES OF JATROPHA “TREE CROP” FOR INDUSTRIAL CULTIVATION

Jatropa, the darling of the second-generation biofuels community, is now not a new Biofuel species. It is being cultivated in almost all the continents and a large number of countries, particularly in tropical nations. India, Malaysia, African nations and other Asian countries can greatly benefit from cultivation of biodiesel crops to meet their ever growing diesel requirements. There is a large interest of the private companies to venture into biodiesel industry.

Jatropa is an “energy species” that has to be domesticated as a “tree crop”. In order to have commercial perfection, it is crucial to understand the habit of the “crop” and its requirements; predict possible interactions with the environment; and develop packages of practices for industrial cultivation.

### Critical Components of a Sound Biofuel Cropping System What You'll Learn...

- **Selections** of elites of Jatropa for higher productivity per plant and per hectare.
- **Good nursery** is basic to a healthy plantation. Proper techniques for nurturing saplings in nursery and developing commercial nurseries at least cost.
- **Incidences of disease** are alarming for a new biodiesel crop. Healthy practices not only increase productivity but bring about sustainability in environment.
- Objectives of **good management (of plantation)** include minimum irrigation and fertilizer inputs, least occurrence of disease and increased seed production. The practices will differ on the basis of soil conditions, site topography, availability of nutrients and other environmental factors particularly when the plantations are raised on degraded, abandoned or unproductive sites.

- Ensure plantation with **least carbon footprints**. The Workshop shall focus on “novel” practices for organic to near organic cultivation of Jatropa curcas so that its cultivation leads to carbon sequestration.
- **Appropriate silvicultural practices** that lead to increased productivity and ease of harvesting are basic to Jatropa curcas cultivation. The uniqueness of this “crop” is that there is an immense potential to enhance its productivity.
- **Seed harvest, post harvest management, seed storage to optimize oil extraction**, losses during storage and extraction are some of the features often ignored by farmers and plantation companies.
- **Value addition** holds the key to successful Jatropa curcas program. Extraction of oil will leave tons of seed cake, tons of fruit waste, the shrub yields a good dye, the plant has several metabolites that have pesticidal properties. Value addition by way of producing energy from waste of Jatropa curcas, utilization of these **byproducts** in the farm or for export shall enhance profits and make the “crop” attractive.
- A session will address issues on **controversies** such as: Does Jatropa compete with food? Has Jatropa cultivation increased food prices? Is Jatropa toxic to soil and environment? Could Jatropa kill population and thus is a social risk? Is Jatropa a weed? Does Jatropa leave your soil unproductive and cause degradation? Is Jatropa economically feasible crop?

*Send in your key agronomy and planting teams.*

## REGISTRATION

**JATROPHA**  
PRODUCTION TO APPLICATIONS  
25-26 August 2008 / Kuala Lumpur

**080877BE**      **A B C D E F G H I J K L M N O P Q R S T U V W X Y Z**  
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### CONFERENCE VENUE

CMT has arranged special discounted room rates at RM380 (Single/ Double) + 15% Tax per room per night (subject to rooms & rates availability), breakfast is chargeable at RM18 + 15% Tax per person for delegates at **JW Marriott Kuala Lumpur**. Please reserve your room with the hotel directly, quoting the name "CMT" and providing full credit card number and expiry date to:  
Reservations, **JW Marriott Kuala Lumpur**  
183 Jalan Bukit Bintang, 55100 Kuala Lumpur, Malaysia  
Tel: **+603 2715 9000** Fax: **+603 2715 7000**  
Email: [jwmresv@ytlhotels.com.my](mailto:jwmresv@ytlhotels.com.my)  
Cut-off date: 6 August 2008



Register for (pls tick)

- ☐ workshop  
☐ plus site visit (at USD100 extra)

**Fees:** The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

1 Person	Group fee for 3 or more* (from the same company)
<b>USD1,395</b>	<b>USD1,095</b> <b>(MIN SAVINGS OF USD900)</b>

\* Terms and conditions apply.

**Cancellations, Refunds & Transfers:** A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

### TO REGISTER

Online: [www.cmtevents.com](http://www.cmtevents.com)  
Email: [sasha@cmtsp.com.sg](mailto:sasha@cmtsp.com.sg)  
Fax: (65) 6345 5928  
Tel: (65) 6346 9124

### TELEGRAPHIC TRANSFER

Account Name: **Centre for Management Technology**  
A/C No: **251 - 004487 - 178**  
Bank: HSBC Singapore  
Branch: Marine Parade, Singapore  
Swift Code: HSBC SGSG  
TT must include additional USD21 for Beneficiary's Bank charges. **Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.**

### CUSTOMISED SPONSORSHIP PACKAGES AVAILABLE

This event is an excellent platform to promote your organisation to influential players and investors in the industry. Sponsorship opportunities available include Corporate, Exclusive Luncheon, Cocktail & Documentation sponsor. Exhibition / catalogue display can be arranged upon request. Contact [cynthia@cmtsp.com.sg](mailto:cynthia@cmtsp.com.sg) or (65) 6346 9132.

Photocopy Registration Form to Preserve Brochure Copy. Aug 2008

Register online ~ [www.cmtevents.com](http://www.cmtevents.com)

## CMT'S UPCOMING EVENTS

**JATROPHA**WORLD  
Hamburg 2008

20-21 October 2008 | **Hamburg, Germany**

**"Towards Sustainable Non-Food Bioenergy and Zero Waste Agriculture"**

**BiomassWorld**

23-24 September | **Beijing, China**

**"Sustainable usage of agricultural residue & waste for power generation and cellulosic biofuels"**

**AlgaeWorld**

17-18 November | **Singapore**

**"Commercialisation - from strain selection to post harvest processing"**

**SORGHUM & ETHANOL**  
SUMMIT

20-21 November | **Hainan, China**

**"Transitional Technologies & Competitive Approaches of Biofuels Production"**