

National Seminar on GOTS Certification

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Radisson Blu Dhaka Water Garden, Bangladesh

Prospects and Challenges of Organic Cotton in Bangladesh

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Cotton Development Board at a glance

- **Established in 1972**
- **Line Ministry- Ministry of Agriculture**
- **CDB operates in**
 - **Extension programs**
 - 4 region
 - 13 zones
 - 190 unit offices
 - **Research programs**
 - 5 research center
 - 3 sub-center
- **Contact**

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Major Activities of CDB

**Conduct research on
cotton**

Provide extension services to the farmers

Ensure distribution of quality cotton seeds

Facilitates marketing and ginning activities

Provide small credit to the farmers

**Human resources
development on cotton**

Cotton Production Status in BD

- **Cotton species grown in BD-**
 - *Gossypium hirsutum* (American upland)
 - *Gossypium arboreum* (Hill cotton)
- **Cotton growing areas**
 - 36 districts out of 64 districts
- **Production potential**
 - 2.0 million bales
- **Current production**
 - 0.16 million bales
- **Priority areas**
 - Saline prone areas
 - Drought prone areas
 - Charland areas
 - Hilly areas
 - Agroforestry areas
- **Private ginning involve in cotton marketing - 20 nos**
- **Oil refinery - 1 no.**
- **Seed companies involve in cotton seed marketing-3 nos.**



UPLAND COTTON-used for spinning



HC-3

COMILLA COTTON/HILL COTTON



NATURALLY COLORED COTTON



NATURALLY COLORED AND WHITE COTTON

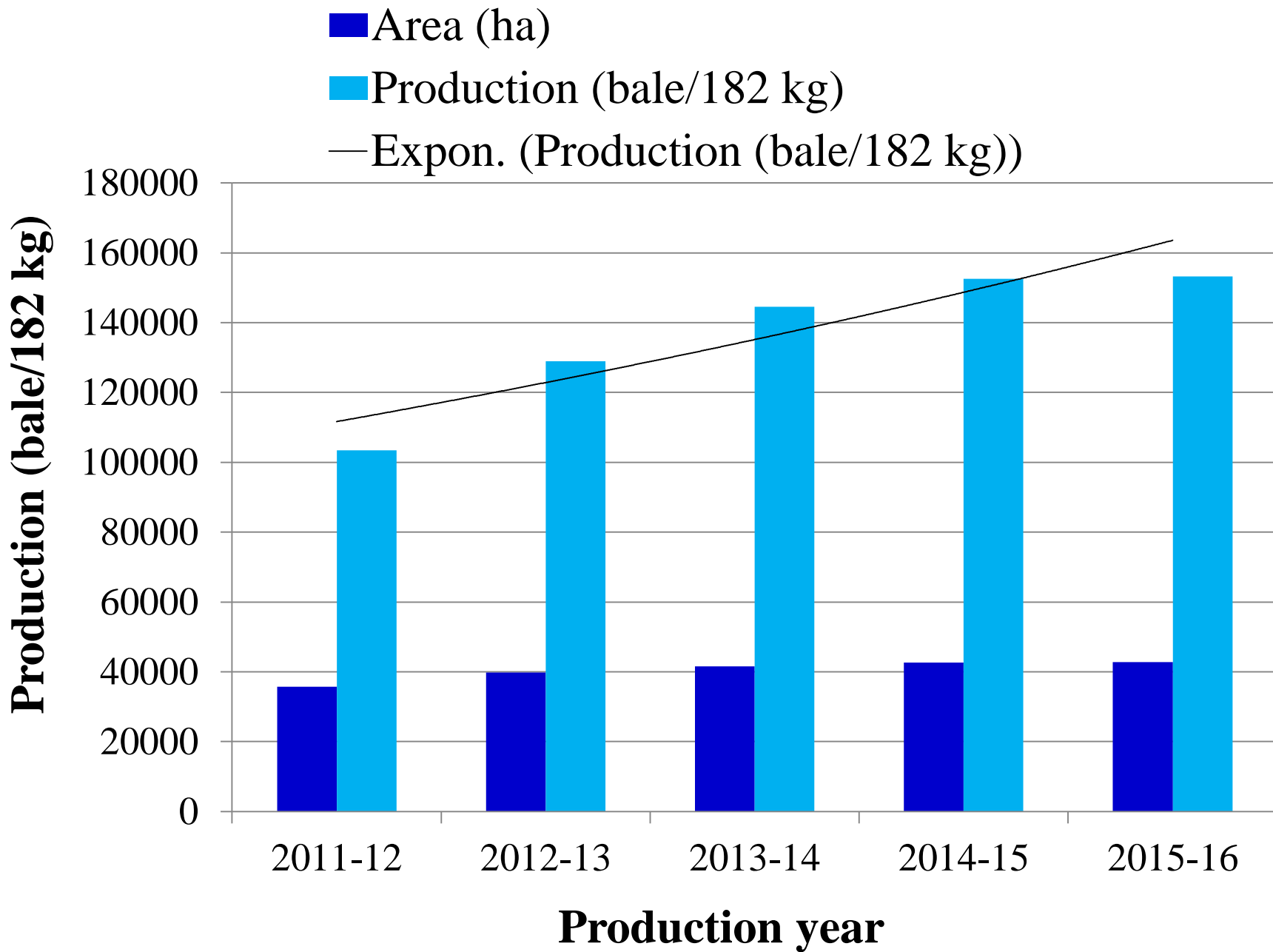
COTTON PRODUCTION IN BANGLADESH



American upland Cotton (*Gossypium hirsutum*) growing area

Hill Cotton (*Gossypium arboreum*) Growing area

Cotton growing areas in Bangladesh



Why Organic Cotton

- Fibre for fabric, oil for human consumption and oil cake for dairy & fisheries
- Cotton crop alone consumes 25% of pesticide consumption in the world
- About 8000 chemicals involved in cotton farm to fabric (pesticide, insecticide, processing chemicals, dyes, auxiliaries)
- Pollutes environment (soil, water and air and harm to the stakeholders (health risk to farmers, producers and consumers, killing animals and plants)

Prospects and Potentials for Organic Cotton Production in BD

- Huge local demand
- Cotton varieties developed by CDB have potential for growing organic cultivation system
- Naturally colored cotton variety (khaki cotton)
- Availability of organic and bio fertilizer, botanic and biological pest management and other management practices-IPM, ICM, INMS
- Cotton growing areas are marginal and less chemical pollution-hilly areas, charland and barind areas



Cotton Cultivation in Barind Tracts



Cotton Cultivation in Charland areas





Cotton Cultivation in Hilly areas



নবনাটক ধনাকার খরিপ ১ উন্নয়ন ক্লাবের বিভিন্ন
সহায়িত ও নাইলার ফলাফল পরীক্ষার প্রোগ্রাম
বৈজ্ঞানিক ও নাইলার নাম: রশ্মি ১, জিএন ১, জিএন ১, E
স্থাপন তারিখ: ০১/০২/২০১১
জাতীর নাম: মোঃ হুমকত আলী
স্থান: সল্যাস গাছা, তামা ইউনিট অফিস
বাড়বাড়: তুলা উন্নয়ন বোর্ড, মগুরা ডিগ্রি কলেজ

28/05/2011

Cotton Cultivation in Saline prone areas



Cotton Cultivation in Agroforestry

Government Policies to match Organic Production

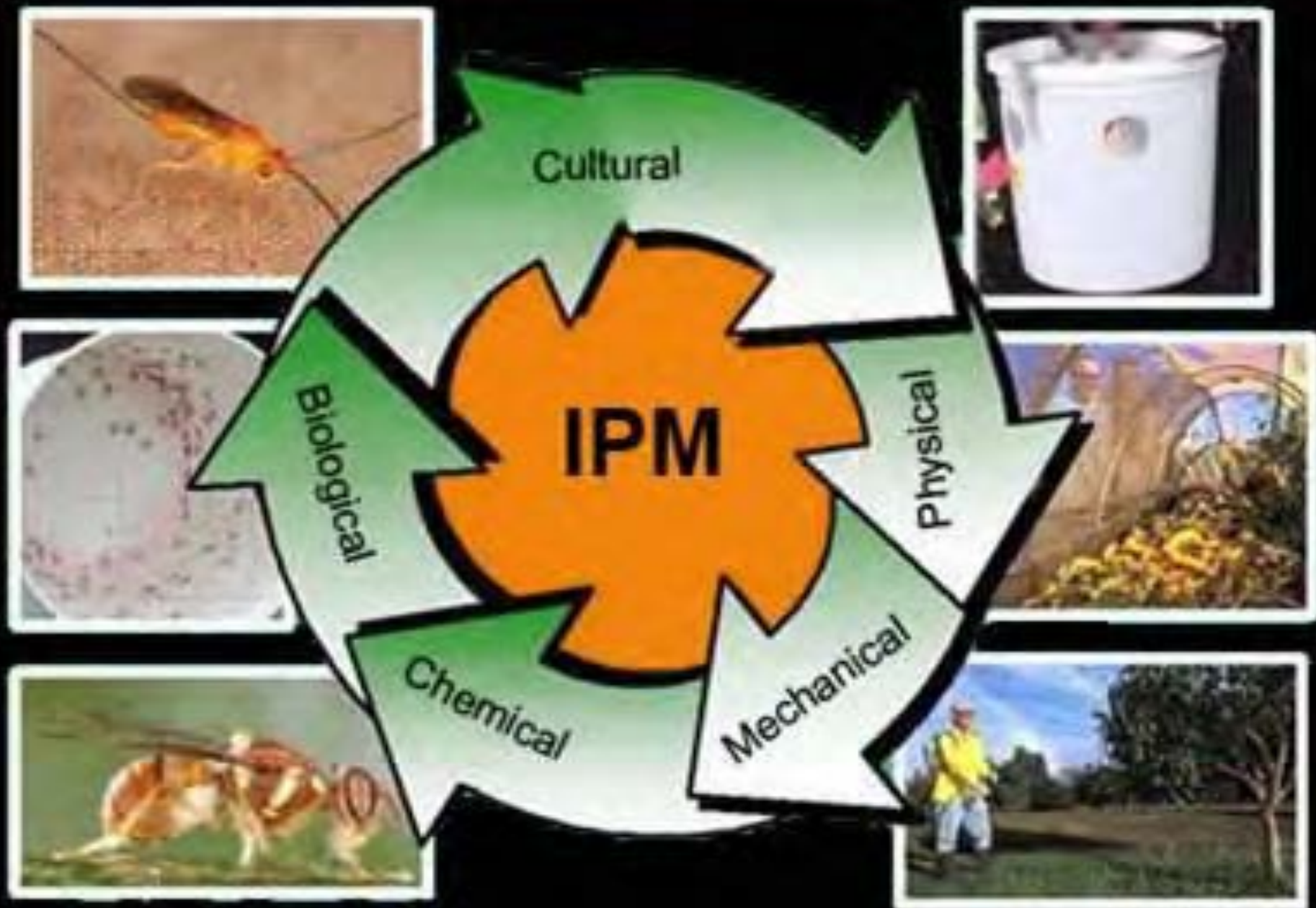
- National Agricultural Policy focused on-
 - ensure sustainable and profitable agriculture
 - enhance Good Agricultural Practice
 - invention and development of Integrated Pest Management and Organic pesticides
 - encourage use of IPM and ICM in crop production to preserve ecology and natural resources
- National Agriculture Extension Policy concentrated to-
 - emphasis should given in organic agricultural production
 - extension of Good Agricultural Practices
 - expansion of organic pest management practices
 - production of safe food and agricultural products following IPM, ICM,IPNS

Government Policies to match Organic Production

- National IPM policy emphasise on-
 - enable farmers to grow healthy crops in a sustainable basis
 - improving environment and community health
- Seventh Five Year Plan includes-
 - promote use of environment friendly green technologies (IPM,INMS,AWD etc.) and climate smart resilient technologies

Good Agricultural Practice

- address environmental, economic and social sustainability for on-farm processes
- safe and quality food and non-food agricultural products
- four pillars of GAP includes-
 - economic viability,
 - environmental sustainability,
 - social acceptability and
 - food safety and quality





COTTON FIELD USING PHEROMONE TRAP AND PEARCING



COTTON FIELD USING MOLASSES TRAP



USING TRAP CROP FOR INSECT CONTROL IN COTTON FIELD





BENEFICIAL INSECTS





FARMER FIELD SCHOOL UNDER COTTON IPM PROGRAMME

Challenges in Organic Cotton Production

- Low yield potential in organically grown cotton
- Land scarcity and Govt. attention for food production
- Unstable world market
- lack of effective market communication and costly OC certification
- lack of regular training, motivation, supports from promoters



COTTON GINNING & MARKETING





COTTON GINNING & MARKETING



INPUT

Imported Cotton

- USA
- Africa
- India
- CIS
- Others

10% 12% 36% 37% 5%

Cotton importers

Domestic Cotton

Cotton growers

Middle man (faria)

CDB

Ginners

20

OUTPUT

Spinners

463

Fabric Manf

Hand loom

703

300000

RMG

5000

Export

Local market

Local consumer

Seed crusher

04

Oil refinery

01

Local market

Local consumer

Farmers

60000

Soap factory

10

Local market

Local consumer



LOCAL SPINNING IN CHT USING *G. arboreum* COTTON



LOCAL HANDLOOM IN CHT USING *G. arboreum* COTTON



OIL EXTRACTION AND REFINERY





A close-up photograph of three fluffy white cotton bolls on a stem, set against a clear blue sky. The cotton is soft and voluminous. The text 'THANK YOU' is overlaid in a bold, red, 3D-style font at the bottom of the image, with a reflection effect below it.

THANK YOU