

Rural Development Academy (RDA)
Bogra, Bangladesh

Name: Md. Ferdous Hossain Khan

Designation: Joint Director

1. Title of the course:

SAARC Regional Training on **Climate Change Impact on Soil Carbon Storage Turnover Under Different land systems and Adaptation Strategies**

2. Duration: 16 – 23 august 2016

3. Institution: International Institute of Soil Science (IISS), Bhopal, India

4. Country: India

5. Sponsoring Organization: SAARC Agriculture Centre (SAC)

6. Course content:

- Impact of Climate Change on Water Resources and Agricultural Systems of India
- Dynamics and Potentials of Soil Carbon Sequestration in Different Land Use Systems in Bangladesh
- Temperature Dependence of Soil Organic Matter Decomposition and the Effect of Global Warming on Soil Organic Carbon Storage
- Climate Change Impact on water and nutrient use in plants
- Agricultural Land Use and Soil Carbon Sequestration
- Concepts of Soil Organic Carbon Stabilization and Saturation
- Impact of Long Term Nutrient Management on Carbon Sequestration and Soil Quality
- Effect of Waste Water Irrigation on Soil Organic Carbon and Soil Health
- Effect of Conservation Agriculture on Soil Carbon Storage and other Soil Properties
- Role of farm machinery to reduce the greenhouse gas emissions
- Soil Microbial Biomass Carbon
- Greenhouse Gas (GHG) Sampling Methodology, Measurements and Flux Calculation

7. Learning points:

- Greenhouse gas (GHG) sources and negative impact on life and earth
- Methods of Carbon sequestration
- Capturing carbon by keeping the crops residue on the soil ground
- AWD and SRI system of rice cultivation reduce the CH₄ emission in atmosphere
- Relation to organic matter decomposition, microbial growth and CO₂ emission


(Md. Ferdous Hossain Khan)

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