

**India Gandhi National Forest Academy**

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***Approved Structure of  
Reading Material on “Climate Change with special  
reference to Ecological Functions” for Officers from others  
services***

**Contents**

1. Introduction Ecological services from forest ecosystems.
  - Climate systems and Global Warming
  - Projected Climate Change at Global and National level.
  
2. Global response to Climate Change
  - IPCC and UNFCCC.
  - Kyoto Protocol and Clean Development Mechanism (CDM).
  - II<sup>nd</sup> Commitment period and post 2020 Climate regime.
  
3. National response to Climate Change
  - National Action Plan on Climate Change.
  - State Action Plans on Climate Change.
  - India’s National Communications.
  
4. Forests and Climate Change
  - Forest Ecological Services and Climate Change.
  - Vulnerability of forest ecosystems to Changing Climate.
  
5. Mitigation role of Forests.
  - Forest sector as a source and sink of GHGs.
  - Carbon sequestration as forest ecosystem service.
  - Mitigation potential of tree plantations.
  - REDD & REDD-plus.
  
6. REDD-plus framework
  - Issues and challenges on REDD-plus including MRV.
  - Operationalizing REDD-plus in India.

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