



**12<sup>th</sup> Project Directors Meeting (Webinar)**  
**of**  
**JICA Supported Forestry & NRM Projects**  
**September 27 ~ 29, 2021**

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# JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

- ***Starting in 1991***, 'Afforestation & Pasture Development along Indira Gandhi Canal Area', in Rajasthan, was first project
- In a **span of 3 decades**, financial assistance has been extended to **31 projects**
- **29 - ODA Loans and 2 Technical Cooperation**
- **28 ODA loan projects are state specific**, cover **15 states**, namely Rajasthan (5), Tamil Nadu (3), Gujarat (3), Karnataka (2), Punjab (2), Odisha (2), Himachal Pradesh (2), Tripura (2), Haryana, Uttar Pradesh, Sikkim, West Bengal, Uttarakhand, Nagaland and Meghalaya



# JICA's Forestry Sector Assistance to India

## 3 Decades Journey (1991 ~ 2021)

- **1 HRD project at National Level:** (completed)  
For frontline staff covering 13 states – Assam, Mizoram, Nagaland , Bihar, Jharkhand, West Bengal, Chattisgarh, Madhya Pradesh, Uttarakhand, Maharashtra, Kerela and Himachal Pradesh
- The project focused on:
  - Infrastructure development of State Forest Training Institutes (SFTIs) and State Forest Service (SFS) Colleges at Barnihat, Coimbatore, Kurseong and Dehradun
  - Faculty Training
  - Development of training material for frontline staff



# JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

- **2 Technical Cooperation projects**
  - **Capacity Building for SFTIs, CASFOS** (completed)
  - **Natural Disaster Management in Forest Areas of Uttarakhand** (commenced in FY 2016) covering the following:
    - Implementation of Slope Disaster prevention works
    - Capacity Development in state
    - Knowledge dissemination at national level



## JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

- Cumulative commitment stands at **JPY 294 billion** (Rs. 20,000 crores approx. at current exchange rates)
- **JICA** continues to be the **largest donor** to the forestry sector in India with footprints in **25 states** (15 ODA &TC) + (10 HRD)



# JICA's Forestry Sector Assistance to India

## 3 Decades Journey (1991 ~ 2021)

- Projects from following states are on the Rolling Plan submitted by DEA:
  - **Capacity Development for Forest Management and Training of Personnel in India (Phase II)**
  - **Tamil Nadu Biodiversity Greening Project (Phase 2 ) – 4<sup>th</sup> project**
  - **West Bengal (Phase 2)**
  - **Rajasthan – 6<sup>th</sup> project**
  - **Punjab (Phase 2) – 3<sup>rd</sup> project**
  - **Manipur**



## **JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)**

- Sectoral assistance has traversed 3 decades journey and 4 generations of projects
- 1<sup>st</sup> : 1990-91 ~ 1997-98
- 2<sup>nd</sup>: 2002-03 ~ 2012-13
- 3<sup>rd</sup>: 2013-14 ~ 2018-19
- 4<sup>th</sup>: 2019-20 ~ Ongoing



# **JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)**

## **First Generation**

**(1990-91 ~ 1997-98)**

Majorly focused on afforestation, soil & water conservation, training, extension etc. Community participation was minimal.



# **JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)**

## **Second Generation**

(2002-03 ~ 2012-13)

- Laid more emphasis on participatory management and poverty alleviation
- Effective blending of Afforestation and community development (livelihood) activities
- PMU established in Society mode
- Adopted three phased approach



# JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

## Third Generation (2013-14 ~ 2018-19)

All activities of 1<sup>st</sup> and 2<sup>nd</sup> generation projects with an increased focus on:

- **Sustainable community development activities** for livelihood improvement
- **Biodiversity conservation**
- **Technology** based planning, monitoring and evaluation
- Efforts made to facilitate introduction of **REDD+ Mechanism, AR-CDM**
- **Disaster Preparedness & Mitigation** measures
- Institutionalization of **Convergence**



# JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

## Fourth Generation (2019-20 onwards)

- All activities of 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> generation projects with an increased focus on:
- **Strengthening Alignment** of project interventions with Climate Change measures (adaption & mitigation) through improvement of land and marine ecosystems



# JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

## Fourth Generation (2019-20 onwards)

- **Enhancing Forestry and Natural Resources** through:
  - Forestry Research
  - Promotion of Supply Chain Development
  - Exploring possibilities partnership/collaboration with private sector
  - Promotion of Urban and Semi-urban forestry



# JICA's Forestry Sector Assistance to India 3 Decades Journey (1991 ~ 2021)

## Fourth Generation (2019-20 onwards)

- **Promote Intensive utilization of technology** for planning, implementation and monitoring
- **Replicate and upscale pilot/other successful interventions** of previous generations (Disaster mitigation, Agro forestry, convergence, catchment area treatment, sustainable Livelihoods etc.)



## Broad Milestones Achieved

- **Forest/ Tree Cover Enhanced:** Plantation and regeneration activities, including soil and moisture conservation, have covered over 2 million hectares. Another 0.8 million plus is expected in next 5 to 7 years
- **Positive Hydrological Impact:** Soil and Moisture conservation has led to increased agricultural productivity leading to augmentation of incomes



# Broad Milestones Achieved

## Community Participation Strengthened

- 18,500 plus Joint Forest Management (JFM) committees have been formed/ functioning, another 2000 plus expected in next 5 years
- VFCs and SHGs have established themselves as institutions for forest protection and socio-economic development of villages



# Broad Milestones Achieved

## Institutional Capacities Augmented

- Capacities of the forest departments have been augmented in terms of:
  - Overall management
  - Introduction/ Utilization of Technology (MIS & GIS)
  - Nursery operations
  - Undertaking Community Development Activities including promotion of Income Generation Activities through Women SHGs
  - Biodiversity conservation, Ecotourism etc.



# **Broad Milestones Achieved**

## **Gender Empowerment & Financial Inclusion Promoted:**

- **25,000** plus SHGs (approx. **500,000** beneficiaries) plus are operating and engaged in Income Generation activities
- **15,000** plus more SHGs ( approx. **300,000** beneficiaries) to be formed

## **Community Assets created**

**Generated Wage employment** for local communities

**Promoted of equitable sharing** of Non Timber Forest Produce (NTFP)



# Agenda for the PD Webinar

The PD Webinar has two themes for discussions spread over 4 sessions:

- 1. Sustainable Livelihoods & Intersectoral Convergence – Best Practices, Challenges and Solutions**
- 2. Promotion of Technology in Management: Geographic Management System (GIS) and Management Information System (MIS)**



# Sustainable Livelihoods

- **Creating alternate livelihood opportunities** is an imperative requirement to wean people away from over dependence on forests
- **Livelihood opportunities serve as incentive** to generate larger participation
- **Focused participatory approach triggers larger ownership** of the works amongst communities leading to more effective sustainable forest management



# Sustainable Livelihoods

- **Feasible livelihood alternatives need to be selected** based on market survey and also linked to conservation objectives
- **Bottom up consultative approach has to be adopted** for identification of livelihood options based on value chain assessment
- **Choice of IGAs** to be need based
- **Micro Credit** revolving fund need to be established under the project
- **Provisions for value addition, processing, marketing etc.** need to be in place



# Sustainable Livelihoods

- **Financial inclusion** needs to be explored by integrating CSR initiatives, linking up with financial institutions and government schemes
- **SHGs to be trained** for enhancing product quality, managerial skills and self sufficiency
- **Federation of SHGs** on product cluster basis to be created
- **Professional organizations/NGOs** to be considered for establishing marketing linkages



# Sustainable Livelihoods

- **SHGs to be linked with direct markets** to eliminate middlemen
- **Synergy with Gram Panchayat** initiatives and activities for sustenance, effectiveness and convergence is imperative



# Inter-Sectoral Convergence

- Inter-sectoral convergence is now **an imperative need** of the hour for enhancing project impacts
- Through Inter-sectoral convergence a **larger and holistic ecological and socio-economic development** can be achieved
- Convergence to be done with Line departments on program/scheme basis **during formulation to ensure a 'buy in'**



# Inter-Sectoral Convergence

- **Field/ village level convergence** to be done through Micro Planning
- **Set up targets for convergence** for each Division
- **State Government to be requested to prioritize convergence** for project villages through an institutional set up of monitoring committees as under:
  - State Level: Chief Secretary
  - District Level: District Magistrate
  - Block Level : B.D.O.



# Promotion of Technology in Management: GIS & MIS

- **Extensive use of technology** is one of the corner stones of JICA's 4<sup>th</sup> generation projects
- **GIS & MIS have been a part of 2<sup>nd</sup> and 3<sup>rd</sup> generation projects** but development and use has been varied and, at times, much delayed
- **Integration of GIS & MIS** and subsequently with Forest Dept. system has been a huge challenge



# Promotion of Technology in Management: GIS & MIS

- **Setting up GIS/ MIS cell** in the Preparatory phase is mandatory
- **Close interaction with other states** is necessary to avoid duplication of efforts and expenses
- **Capacity development within Forest Department** in using satellite images for processing and interpretation is an imperative requirement



# Promotion of Technology in Management: GIS & MIS

- **GIS technologies to be used** for identification and digitization of forest boundaries, planning, monitoring and assessment of forest cover change, and identification of encroachment areas
- **GPS survey of all plantation sites** need to be mandatory



# Promotion of Technology in Management: GIS & MIS

- **Resource maps development for 'before' and 'after' project assessment is a must requirement**
- **Monitoring on real time basis** needs to be aimed at
- **Continuous updation of technology and integration of GIS with MIS** needs to be ensured.
- **Development of 'in-house' dedicated Human resources is necessary**



# Promotion of Technology in Management: GIS & MIS

- **Integrated GIS & MIS is an imperative tool** for robust planning, implementation, monitoring and evaluation
- **Needs to be planned during project preparation** and implemented during the preparatory phase
- **Projects must learn and incorporate ‘best practices’** from other projects rather than reinventing the wheel



# Promotion of Technology in Management: GIS & MIS

- **The GIS & MIS system needs to be integrated with the Forest Department facility** to ensure continuity and sustainability
- **JICA has instituted a national level study** to develop the first prototype from June 2021 ~ December 2021
- **5 states** are being covered by the study – 3 JICA and 2 Non-JICA



# Promotion of Technology in Management: GIS & MIS

- **Following output is expected:**
  - A prototype system shall be developed with flexibility to make state specific/ system upgradation changes
  - The prototype can be used by projects, as a base to work upon.
- **Interim Findings** would be presented tomorrow and the Final Report is expected by December 2021.



Thank you for your attention !