

INVENTORISATION OF MEDICINAL AND MEDICINALLY IMPORTANT AROMATIC PLANTS (M & MIAPS) AND ITS CONSERVATION IN SELECTED FOUR GANGA GRAMS OF KANPUR NAGAR DISTRICT OF UTTAR PRADESH (CSIR-CENTRAL INSTITUTE OF MEDICINAL AND AROMATIC PLANTS LUCKNOW UTTAR PRADESH)

Objectives of the project:

- Production of quality planting material of M&MIAPs for 4 Ganga Grams.
- Conservation/cultivation of MIAPS quality planting material in the land of schools/temples/Growers/Govt. lands etc. of selected Ganga grams.
- Organization of training/awareness camp/promotional activities in selected four Ganga grams for conservation/cultivation of M&MIAPs.

Project Execution and activities undertaken:

- About 4.6 kg seeds and 1.0 lakhs plantlets/saplings of Medicinal plants were produced in plantation of about two hectare lands.
- Medicinal plant species i.e. *Asparagus racemosus*, *Andrographis paniculata*, *Acorus calamus*, *Aloe vera*, *Bacopa monnieri*, *Cassia senna*, *Centella asiatica*, *Stevia rebaudiana*, *Rauvolfia serpentina*, *Ocimum tenuiflorum*, *Ocimum basilicum*, *Withania somnifera*, *Phyllanthus amarus*, *Cymbopogon flexuosus* were produced in medicinal plant nurseries.
- Tree species like *Santalum album*, *Terminalia arjuna*, *Elaeocarpus ganitrus* also planted in Ganga grams area.



- Plantation of medicinal plants in selected Ganga Gram Bithoor kalan and Bithoor Khurd of Kanpur.
- Awareness programme, Kisan Gosthies and intensive visit carried out by Scientist of CIMAP.

Outcomes of the project:

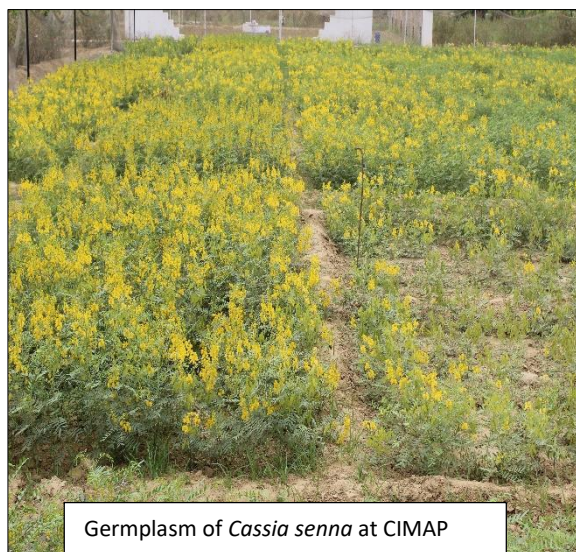
- Development of Ganga grams & plantation of Khus in the adjoining area would improve the environmental parameters along the river flood plain.

Long term benefits: Plantation of Vetiver binds the soil and prevents soil erosion. Also Vetiver has a high level of tolerance to polluted water thus helps in water conservation and purification.

About 4.6 kg seeds and 1.0 lakhs plantlets/rhizomes of medicinal were produced of medicinal plants viz., *Asparagus racemosus* var. CIM-Shakti, *Andrographis paniculata* var. CIM Megha, *Acorus calamus* var. Balya, *Aloe vera* var. CIM Sheetal, *Bacopa monnieri* CIM Jagriti, *Cassia senna* CIM-sona, *Centella asiatica* var. CIM-Medha, *Stevia rebaudiana* var. CIM-Madhu, *Rauwolfia serpentina* var. CIM Sheel, *Ocimum tenuiflorum* var. CIM-Ayu, CIM-Angana, *Ocimum basilicum* var. CIM-Saumya, CIM-Sharada, CIM-Surabhi, CIM-Jyoti, *Ocimum gratissimum*, *Ocimum Kilmandscharium*, *Withania somnifera* CIM-Poshita, *Phyllanthus amarus* CIM-Jeevan, *Cymbopogon Flexuosus* var. Krishna etc.



Germplasm of *Withania somnifera* at CIMAP, Lucknow



Germplasm of *Cassia senna* at CIMAP