



Project No: - NMHS2024-25/SC-XII/MG95-200/06

Project Title: - Assessment and Management of Neo-invasive Species for Native Plant Restoration in the Vicinity of Developmental Projects in Himachal Pradesh.

Project Sanction ID: - NMHS2024-25/SC-XII/MG95-200/06

Total Grant: 98,46,000

Project Sites: Solan, Shimla, Theog, Rampur, Kinnaur

Project activities

(A) Awareness workshop on utilities of Neo-Invasive plants conducted in Solan (H.P.):

A workshop was conducted under **National Action Plan on Climate Change (NAPCC), LiFE, Green India Mission (GIM), Self Reliant India Mission, Mahila Samridhi Yojana** for the locals titled “Neo-invasive plants: their impacts and potential utilization” in Anhech village, Solan district (173229), Himachal Pradesh.

Key deliveries of Workshop:

- Asked people about invasive species information and their utilities in their daily use.
- Demonstrated different methods for potential utilisation of neo-invasive species.
- Promotes Sustainable management of Invasive species through techniques: -
 - ❖ Carbonized Biomass generation
 - ❖ Essential oil generation
 - ❖ Handicraft manufacturing through Neo-Invasive Plant parts
 - ❖ Information pamphlets were distributed among the locals.

Five volunteers from the Panjab University, Ipsa Gupta, Aditi Rana, Shalini Ojha, Lovepreet Kaur, and Raashi Gupta played a significant role in organizing this workshop. Workshop was done in collaboration with Village Pradhan, Mr. Mohan Lal Kanwar, Mr. Akash Malik, and Mr. Pradeep Soni as resource persons. A lecture was delivered by the resource persons and Prof. Daizy Rani Batish, Principal Investigator of this project.



 NEO-INVASIVE PLANTS, THEIR IMPACTS, AND POTENTIAL UTILIZATION 	
<i>Tagetes minuta</i> L. • COMMON NAME: Wild Marigold/ Stinking Roger • LOCAL NAME: जंगली मैदा (Jangli Genda) • FAMILY: Asteraceae • USES: Food flavouring, Perfumery, Ornamental, Natural Insecticide, etc.  	<i>Abutilon</i> sp. Mill. • COMMON NAME: Indian Mallow/ Velvetleaf • LOCAL NAME: कंग्ही (Kanghi) • FAMILY: Malvaceae • USES: Ornamental Plant, Crafts and Fiber, Livestock Fodder, etc.  
<i>Ageratina adenophora</i> (Spreng.) King & H. Rob. • COMMON NAME: Crofton Weed/ Cat Weed/ Mexican Devil • LOCAL NAME: काली बसुन्धि (Kali Basundi) • FAMILY: Asteraceae • USES: Livestock Fodder, Bio-pesticide and Insect-repellent, Crafts and Fiber, Biofuel (Charcoal Production and Firewood), Bee forage, etc.  	<i>Roylea elegans</i> Wall. Ex Benth. • COMMON NAME: Ashy Roylea • LOCAL NAME: कडु पत्र (Kadu Patti) • FAMILY: Lamiaceae • USES: Livestock Fodder, Landscaping (Ornamental Plant and Hedge Plant), Crafts and Fiber, Insect Repellent, Cultural Uses (Sacred), etc.  
<i>Bidens pilosa</i> L. • COMMON NAME: Black-jack/ Beggar's tick/ Spanish Needle • LOCAL NAME: दुम्हा (Dumha) • FAMILY: Asteraceae • USES: Livestock Food, Insect-repellent, Handicrafts, Fiber, Biofuel, Lachhi-Tin, Skiware, etc.     	

Pamphlet distributed to raise awareness about Neo-Invasive Species among Locals

Activity 2: - Workshop conducted near DDU-GKY (Deen Dayal Upadhyaya Grameen Kaushal Yojana) Centre

Workshop was conducted to college students near DDU-GKY under Green India Mission, LiFE (Lifestyle for Environment) and Self-Reliant Bharat and aligning with Sustainable Development Goals, especially SDG 15 which aims to prevent introduction of Invasive species in different ecosystems by 2030 under Target 15.8.

Key Deliverables: -

- Introduction of Neo-invasive plant to young college students and knowledge about their spread, management through interactive sessions.
- Demonstration of invasive sites to these students for in-depth knowledge about these species.
- Disseminate knowledge about different sustainable products from these species such as
 - Plant waste biomass,
 - Essential oil
 - Handicraft manufacturing skills from plant pulp and fibres
- Organised key lectures by Principal Investigator and research scholars about management, local and regional threats possess by this species and how this project objectives transforms the potential disaster into opportunities.
- Distribution of pamphlet for more in depth knowledge about these species.

