



PROJECTS COMPLETED DURING THE YEAR 2006-2007

[←back](#)

Project 1: Promotion of medicinal plant cultivation among rural communities for sustainable income generation [HPFSR/GIF/2006-2007]

Findings: After undertaking field surveys and in consultation with the state forest department, four sites viz., Didag: 2003 m (Rajgarh), Kaalath: 1252 m (Shree Renuka Ji), Salani: 370 m (Nahan) and Johoron: 360 m (Paonta) were selected for establishing the demonstration plots of medicinal plants. Twenty eight species of commercially important medicinal plants were raised and maintained in these demonstration plots for awareness and training purposes. In the project, eight trainings to popularize commercial cultivation of medicinal plants were organized where a total of 448 participants comprising of farmers, members of VFDCs, Mahila Mandals, NGOs and front line field staff of Forest Department of District Sirmour were trained. The course material for training was developed in simple Hindi language and was distributed to the trainees.



Performance of *Coleus amboinicus* and *Withania somnifera* in demonstration plots

Project 2: Standardization of nursery technology for mass propagation of selected medicinal plant species [HFRI-009/07(NWFP-01)/PLAN/2000-2007]

Findings: Germplasm of 33 species of medicinal plants of temperate Himalayas in Brundhar nursery (Manali), 30 species at Shilly nursery (Solan) and 10 species each at Shillaru Nursery (Shimla) and Model Nursery (Shimla) were maintained for research, training and demonstration purposes. Nursery trials were conducted for improving the agro-techniques of economically important medicinal plant species e.g. *Picrorhiza kurrooa* (Karu), *Aconitum heterophyllum* (Patish), *Valeriana jatamansi* (Mushkbala), *Angelica glauca* (Chora) etc. Nursery techniques were improved for the mass production of nursery stock of these four species viz. *Picrorhiza kurrooa*, *Valeriana jatamansi*, *Aconitum heterophyllum* and *Angelica glauca*. In case of *Aconitum heterophyllum* and *Angelina glauca* techniques for propagation through seeds were improved. Scientific shade requirements were standardized for the production of nursery stock of these species.

Project 3: Standardization of nursery techniques of raising containerized seedlings of conifers and their broadleaved associates [HFRI-016/05 (SFG-



06)/PLAN/2000-2007]

Findings: Trials were conducted to find out the optimum size/type of root-trainers for nursery production of *Cedrus deodara*, *Picea smithiana* and *Abies pindrow*. The result thus obtained, revealed that the growth performance of all these three conifer species was found to be the best when raised in single cell root trainers. Similarly, for *Alnus nitida* and *Grewia optiva* nursery stock was found to be best when raised in different sized root-trainers. Research was also carried out on plug+2 in Spruce (*Picea smithiana*) and plug+3 experiments in Silver Fir (*Abies pindrow*) for raising nursery stock of these species first in containers and then as bare roots. Vegetative propagation trials of potential cold deserts species viz. *Elaeagnus umbellata*, *Colutea nepalensis* and *Rosa webbiana* were conducted.