

Justification for lease renewal for Central Institute of Medicinal and Aromatic Plant, Research Center, Pantnagar, Haldwani, Udham Singh Nagar

The CIMAP Research Centre (CRC) established on the land provided by Forest Department is actively engaged in research and development and subsequent popularization of the cultivation of medicinal and aromatic plants (MAPs) among the farmers and entrepreneurs.

Following major activities are being undertaken from the Research Centre:

- i. Promotion of MAPs cultivation in Uttarakhand and adjoining terai areas of Uttar Pradesh.
- ii. Genetic improvement of MAPs, especially Mints, Aromatic grasses, Satawar, Ashwagandha, Clarysage, Stevia and Rose.
- iii. Agrotechnology development of Mint sp., aromatic grasses, Geranium, Artemisia, Kalmegh, *Silybum*, Sarpangandha, Satawar, Salvia, Khus, Chamomile, Damask Rose and *Aloe vera*.
- iv. Large scale production and generation of quality seeds/ propagules/ planting material MAPs including Mint sp., Geranium, Rose Salvia, Khus, *Artemisia annua*, *Silybum*, Sarpagandha, Kalmegh, Satawar, Aromatic grasses etc. for distribution to farmers
- v. Updating the farmers on modern cultivation know-how of MAPs through training and demonstration programmes.
- vi. Development of post harvest technologies of MAPs storage and processing
- vii. Transfer of improved agro-technologies of MAP to the farmers and industries.
- viii. Collection and introduction of wild MAPs from Kumaon and Garhwal hills for conservation, domestication and genetic improvement.
- ix. Promoting scientific and organic cultivation and contract farming of MAPs.

On account of research and development work carried out by this centres since its inception, following major achievements were made

- Improved varieties of Menthol mint (Kosi, Damroo, CIM-Kranti), Spearmint (Neerkalka), Citronella (Jalpallavi, Medini), Lemongrass (Chirharit), Palmarosa (Vaishnavi), Damask Rose (Ranisahiba) were developed and popularised in the region
- Development of appropriate agrotechnology of lemongrass, citronella, palmarosa, vetiver, *Mentha arvensis*, *M. piperita*, *M. citrata*, *M. spicata*, geranium, rose, clary


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sage, sarpgandha, ashwagandha, satawar, *Aloe vera*, *Silybum*, *Ocimum*, *Artemisia annua*, kalmegh, chamomile for optimal resource utilization to ensure maximum returns to growers.

- Technology for possible inter-cropping of MAPs with traditional agricultural crops to maximize economic returns from unit land have also been packaged for the farmers for their societal upliftment
- Establishment of Mentha, Geranium and Artemisia Biovillage missions for self replicating spread
- Establishment of repository of wild germplasm of MAPs from Himalaya, North East, Kerala and Tamil Nadu regions
- Large scale production of quality planting material of MAPs and essential oils for supply to the farmers of Uttarakhand and other states of the country.

The centre of CIMAP in Uttarakhand offers following services for the benefit of the farmers and entrepreneurs:

- Quality planting material/ seeds of MAPs including Mint sp., Aromatic grasses. Geranium, Rose, Salvia, Khus, *Artemisia annua*, *Silybum*, Sarpagandha, Kalmegh, Satawar, Ashwagandha, *Aloe vera*, Stevia etc.
- Consultancy services for feasibility, cultivation, agrotechnology, post harvest technology and distillation process.
- Training-cum-skill up-gradation including field demonstration and entrepreneurship development

The above activities undertaken by CIMAP Research Centre are of continuing natures which contribute to the socio-economic development of the poor farmers by creating livelihood opportunities in rural sector. The continuing development and dissemination of improved agro-technologies and plant varieties of economically important medicinal and aromatic plants from CIMAP Research Centre will help in production of quality raw herbs and essential oils by the farmers and entrepreneurs for meeting requirement of herbal drug, pharmaceutical, perfumery and cosmetic industries in the country.

Singh

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