

## RECORD OF WORK INITIATED

( 2018-19, 2019-2020, 2020-2021, 2021 till date)

Under the aegis of Mussoorie Fragrance and Flavours Institute **which is** a unit of Dr. Om Prakash Duggal Charitable Society the Institute has already been working towards this goal of communicating plant science for human wellness for the last three years. The Institute has aligned with many reputed Organizations for a 100 percent tracking activity from cultivation of new plant life, domestication of some wild flora and harvesting of wild Himalayan plants on which research papers have been presented at international conferences and valued addition as well as analysis of extracts have been done at Mussoorie as well as in the Doon valley at Bullawala in Doiwala. Unique Personal care products and health care have been designed with the Himalayan Flora Such as Lavender, Roman ans German Chamomile, Kapur Kacheri, Damask Rose, Rosemary, Dandelions, Hemp seeds, Rosehip, Himalayan Musk Rose, Bhimal, Buransh and many more.

These activities are detailed as follows:

### YEAR 2018-2019

1. The first project undertaken was in March 2019 when Lavender was introduced in the Society premises of Duggal Villa Mussoorie by a progressive farmer Bharat Bhushan from Doda in Jammu and floriculturist from Jammu at the hands of the Chairman Mussorie Nagar Palika Mr. Anuj Gupta. Farmers from Kumaon and Garhwal as well students participated to understand the long term benefits that lie in cultivation of new age aromatic plants of the high altiitude.
2. The second project undertaken was in 2019 November being unique as we were the first to do it in India. The society first experimented with the cultivation of Roman Chamomile in two altitudes at Mussoorie and in the Doon Valley at Bullawala in Doiwala with ESH AROMA FARMS. Both were very successful attempts as we extracted the oil from the flowers at Chemistry and Bio Prospecting Division at FRI Dehradun where analysis of the oil was also carried out. The oil was also analyzed by CAP Selaquin and by SH Kelkars Mumbai. It was most suitable in Mussoorie.
3. Centre for Aromatic Plants Selaquin Dehradun, who donated an indoor distillation unit for initial experimentation on this project in May 2019
4. A research Paper titled Roman Chamomile was presented at the Conference on Agricultural Initiatives by the AYUSH Ministry which was held in November 2020 at the Uttarakhand Agricultural University Dehradun

### YEAR 2019 --2020

5. We worked with the Mussoorie Forest Division to teach, train and build the SHGs in livelihood options in the different seven ranges in Tehri, Jaunpur, Mussoorie, Dhanaulty, Kaplani, Badrighat and Devalsari. Training was also conducted on value addition techniques of the aromatic plant life in the forest regions and to create end products with these plants such as turmeric, rosehip, ginger, tagetes minuta etc and to initiate new crops of Lavender chamomile etc. Workshops were conducted at Bunglow ki Kandi, Kempty, Kaplani, Badrighat, Forest head office Mussoorie, Devalsari, and at the Institute campus in Mussoorie from 2020 till date.
6. Distillation of Roman Chamomile from Bullawala and Mussoorie done at Forest Research Institute Dehradun, in April May 2020 and analysis of the oil done at three labs---
  - a. FRI Dehradun
  - b. CAP Selaquin Dehradun
  - c. S H Kelkar Mumbai
7. In December 2020 Forest Research Institute who have donated the Institute a DST field distillation Unit for training farmers in the process.
8. In February 2020 in collaboration with CSIR CIMAP Lucknow under Aroma Mission an agarbatti training workshop was conducted for women at the premises of the Society in Duggal Villa Mussoorie.

#### YEAR 2020 –2021

9. With successful flowering of the Roman Chamomile in succession for the second year, in May 2020, we were filmed by the Shooting Box for their series UTTARAKHAND LEGENDS to showcase the flowering plant in the Lap of Mussoorie and its benefits in the long run, to the people of Uttarakhand growing them and those who can get the chance to use them for their good in a number of personal care products through value addition.
10. Mussoorie Fragrance and Flavours Institute decided to make and launch its signature song in Garhwali in July 2020. This has become a very popular folk song on the Utube channel ...Yano Hamaro Kyal Uttarakhand ho Khushal....scripted and copyright Jyoti Marwah sung by Yachana Sharma and Jyoti Marwah.
11. August 2020 Two paper were accepted at the International Conference organized by Jadhapur University Calcutta for Oral Presentation and Poster Presentation. The oral presentation was made by Jyoti Marwah and Kahkashan Naseem on Rosa Brunonii L. Essential oil and Rosehip carrier oil a value agri product from the Himalayan Forests. The Poster presentation was on Roaman Chamomile being drawn up by Jyoti Marwah and

Father Bellarmin of St Francis Monastery where the flowers were initiated by Mussoorie Fragrance and flavours Institute.

12. To represent Uttarakhand in the MSME Govt of India initiated the Namaste Bharat Platform from Singapore to showcase entrepreneurs at an International platform, Mussoorie Fragrance and Flavours was represented Dasha Ishkriti Enterprises which is our product development Wing. The platform was live for a month from November 2020 to December 2020. It was a unique and wonderful international exposure for the organization. The registration for this event was sponsored by the Department Of Industries Uttarakhand Government. Our Products reached the international market.
13. In July 2021 and September 2021 with ESTC MSME Government of India Ramnagar in conducting 2 online courses each for 15 days on Entrepreneurship with the Himalayan Fragrance and Flavours plant Life in collaboration with Forest Research Institute Dehradun, Mussoorie Forest Divion, Mussoorie Heritage Centre. The initiative was taken by Mussoorie Fragrance and Flavours Institute . The trainees were from all parts of country including America.
14. Director Jyoti Marwah in a combined effort with the DFO Mussoorie Forest Division scripted the Book Title Fragrance and Flavours of the Himalaya: Decoding the Aromas for Human Wellness.

YEAR 2021 – 2022 till date

15. Invitation was extended by Vigyan Prasar Govt. of India to contribute a Cover Story article on the Aroma Tourism for the publication DREAMZ 2047 to commemorate International Mountain Day on 11<sup>th</sup> Dec 2021. The article titled ‘Reinventing post covid 19 Aroma Tourism Destination : Mussoorie a Case Study was published in Hindi and English in the December 2021 volume of the magazine as Cover Story 2.
16. The organization initiated the series on Himalayan Plant Science for Human Wellness in November 2021 with the first plant Perilla as Uttarakhand Government has acquired an American patent for its oil which is very beneficial as an anti oxidant and anti inflammatory. The video is on Utube.
17. With an Invitation from ITC Savoy the organization participated in the Christmas /New Year Carnival on 25<sup>th</sup> Dec 2021 to showcase the unique Products made naturally from the Himalayan flora that has tremendous wellness potential.
18. To commemorate the Girl Child Day the Organisation launched its video film on training the young girls and women in the art creating aromatherapy products in Jan 2022. The video is on Utube.

19. In 2022 with SH Kelkars Mumbai with whom we have envisaged a self reliant and self sufficient project on the cultivation of Lavender through seed germination within the state, along with the Mussoorie Forest Division so that the plant saplings are fully acclimatized with the region of Uttarakhand.