



Vol. 11 (5)

Seed Spices E-News Letter

September-October, 2018

## From Director's Desk



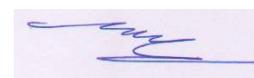
Dear Readers,

It is the beginning of winter season which is the most busiest time for preparing fields and layout for seed spices experimentations. Hence, it is the most important time for the institute mandate. During the period, we have to have the nursery for the seed spice that could be transplant successfully. It is the time to prepare fields by making free from weeds and stubles of previous crops. This is important for smoothly sowing seed spices at appropriate and shallow depth. As the seed of these spices are very small and their plumules are weak and can not come out from the deeper soil. Therefore, pulverized soil is required for better crop stand. Some of the exclusive findings of research at the institute are also listed as an attraction to the readers i.e. Botanical pesticides for control of aphid in coriander. Extension activities for the promotion of seed spices production and area expansion was organized in the form of *Masala Beej Vitran Pakhwada* and Beej Rath moved in different villages of twelve districts of Rajasthan to ensure quality seed distribution among the farmers. Father of

nation Mahatma Gandhi's birth anniversary was celebrated and importance of education of *swachchata abhiyan* was also taken up as regular activity. Being a most crucial period for seed spices, three trainings were imparted to the farmers for its production technology and awareness of about these crops. Publicity was brought out through various platforms i.e. seminars/symposia/field days/workshops etc. Some of our scientist got for their scientific contribution are also listed at the end of this E-newsletter. Hope readers will enjoy the issue of this E-newsletter and will give constructive inputs for the further improvement of the cause.

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(Gopal Lal)

## RESEARCH HIGHLIGHTS

### Products (non chemical botanical extracts) developed

(N K Meena, G Lal, K Kant and M A Khan)

Under the project “Sustainable management of insect pests in coriander and cumin”, two products viz., Kareel plant extract and Tumba fruit extract were prepared for required concentrations and successfully used for the management of aphids on coriander. The details are given below:

1. **Kareel (*Capparis deciduas*) plant extract:** The product was prepared from one year old



herbaceous plant parts of Kareel (*Capparis deciduas*). In the laboratory, 1 kg pieces of kareel plants were ground in electric mixture adding 200 ml of water to get plant extract.

Then the extract was sets in muslin cloth and squeezed to obtain 100% aqueous extract of kareel plants. On standardization from different concentration, a final product viz., kareel plants extract @10 ml/litre of water was obtained, which given best control of aphids on coriander crop and reduced 67.00 population under open field conditions. The product can be stored at 20<sup>0</sup>C temperature in the laboratory for three months. This technology also disseminated among farmers through various TOT programmes.

1. **Tumba (*Citrullus colosynthis*) fruit**



**extract:** The product was prepared from ripened fruits of tumba. In the laboratory, 100 g pulp with seeds of tumba fruits was ground in electric mixture adding 30 ml of water to get



scientists and Technical Officers were made to cover the districts of Bundi, Kota, Jhalawar, Baran, Sikar, Nagaure, Jhunjhunu, Banswara, Udaipur, Pratapgarh, Neemuch and Maundsore in 3-4 days. The officers of Agriculture department of Govt of Rajasthan cooperated in this farmer welfare scheme of ICAR-NRCSS, Ajmer for ensuring quality seeds to the growers so as to enhance the production and productivity of seed spice crops. A total of 20 quintals of seeds of improved varieties of cumin, coriander, fennel and fenugreek were distributed among the farmers. It was a successful event with a promise of distributing more seeds in coming years. Dr. Ravindra Singh, Dr. N K Meena, Dr. Arvind Verma and Dr. M D Meena were among the team leaders with Sh. M A Khan, Sh. S R Meena and Sh. Sriram Balai were associated with respective teams. Dr. S N Saxena coordinated the entire programme under patronage of Dr. Gopal Lal, Director, ICAR-NRCSS, Ajmer.

### **Celebration of 150<sup>th</sup> Birth anniversary of Mahatma Gandhi**

On 2<sup>nd</sup> October, 2018, 150<sup>th</sup> birth anniversary of Mahatma Gandhi was celebrated at ICAR-NRCSS Tabiji, Ajmer, Rajasthan. As Babu's dream clean India (Swachh Bharat), first one hour cleanliness drive was carried out at the institute farm and in the polyhouse. Then the celebration was done at Dr. R S Paroda auditorium, four scientists from the institute

delivered speech on childhood, education, profession and freedom fight movements of Mahatma Gandhi. Quiz competition was also conducted for the farm labour and farmers who were participated in the programme and 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and consolation prizes were distributed to the winners. A mini gallery/museum was inaugurated by the Director. In this gallery ten different quotes of Mahatma



Gandhi were displayed to spare his message to all the participants. Further, Dr. Gopal Lal, Director delivered speech on Mahatma Gandhi, he addressed the Babu's life history, his concern about cleanliness and major freedom fight drives. Finally, the programme

was ended by distribution of sweets to all the participants.

### National Unity Day Celebrated

The programme on Rashtriya Ekta Diwas (National Unity day) began with the formal welcome of the all the participants and brief introduction about the importance of observance of birth anniversary of Sardar Vallabhbhai Patel as Rashtriya Ekta Diwas



(National unity day). During the occasion, Mr. Sumit Singh, Administrative officer, ICAR-NRCSS, Ajmer has spoken in brief about the major contribution of Sardar Vallabhbhai Patel in India's freedom

struggle. Dr. S N Saxena, Pr. Scientist (Plant Physiology) briefed about the early life of Sardar Vallabhbhai Patel and significant contribution in nation building. Dr. Gopal Lal, Director, ICAR-NRCSS, Ajmer delivered a short speech about significant contribution of Sardar Vallabhbhai Patel in integrating the nation after independence. He urged all the staff members to follow the path of Sardar Vallabhbhai Patel and contribute with full dedication in nation's building. To mark the occasion, all the staff of ICAR-NRCSS, Ajmer participated in Rashtriya Ekta Diwas pledge ceremony and Run for Unity.

### Extension/TOT and HRD/Exhibited Stall

During September and October month



Shri Radhamohan Singh, Union Agri. Minister visiting NRCSS stall, ICAR-CSWRI, Avikanagar

ICAR-NRCSS exhibited stall in three different farmers fair at Jodhpur, Avikanagar and Bikaner for the transfer of seed spice technologies to seed spice stakeholders.



Dr. M D Meena and Sh. S R Meena exhibited a stall from 13 to 15 September, 2018 during state level farmers fair at ICAR-Central Arid Zone Research Institute, Jodhpur (Rajasthan) and displayed institute seed spices technologies. Thousands of farmers, students and different entrepreneurs visited our stall and took keen interest in the technologies developed by this centre. Dr. M D Meena and Sh. G K Tripathi exhibited NRCSS stall in farmers fair at ICAR-Central Sheep and Wool Research



Shri Arjun Ram Meghwal, Union Minister, and Hon'ble Dr. Trilochan Mohapatra, DG ICAR & Secretary DARE, New Delhi visiting NRCSS stall at ICAR-**CIAH, Bikaner**

Institute, Avikanagar (Rajasthan) On September 29, 2018. Dr. M D Meena exhibited stall in farmers fair at ICAR-National Research Centre on Camel, Jorbner, Bikaner on 2<sup>nd</sup> October, 2018. Seeds of improved varieties of seed spices namely cumin, coriander, fennel, nigella and fenugreek were also made available to the farmers for sowing in *Rabi* season.

### Training conducted during September and October, 2018

Sr. No.	Training dates	Coordinators	Sponsored
1	10-14 Sept., 2018	Dr. K. Kant, Dr. N. K. Meena and Dr. Shiv Lal	ATMA, Shivpuri, Madhya Pradesh
2	24 to 28 Sept. 2018	Dr. S. N. Saxena, Dr. R. S. Meena and Dr. Ravi Y.	ATMA, Nagaur, Rajasthan
3	22-26 October, 2018	Dr. N. K. Meena and Dr. M. D. Meena	ATMA Jodhpur, Rajasthan

## SWACHHCHATA ABHIYAN

Under the ambit of “Swachhch Bharat Abhiyan”, cleanliness programme is



continuously being organised on Friday of every week wherein, cleaning work in and

## MEETINGS/TRAININGS/ SEMINARS /SYMPOSIA/ LECTURES/ CONFERENCES / AWARDS

### Off Campus Trainings Organized

-Dr. Gopal Lal, Director and Scientists Dr. N K Meena and Dr. M D Meena organized one day farmers training programme on distribution of FLD inputs (seed and fertilizers) to tribal farmers of Dungarpur and Udaipur under TSP programme of NRCSS on 11-12<sup>th</sup> September, 2018.

around the office premises is being carried out which involves eradication of weeds, plastic and other unwanted material. Special cleanliness drives were also conducted during September-October, 2018 in the area around the highway in front of the office and a tract of about 1.0 km was cleaned which included collecting of waste, uprooting of weeds, pruning of thorny trees and collection of these organic waste and transporting it to NRCSS compost pit. Participation of all the staff members of ICAR-NRCSS under the leadership of Dr. Gopal Lal, Director was ensured for the successfulness of the Abhiyan.

-Dr. Gopal Lal, Director, and Scientists Dr. N K Meena and Dr. N Choudhary organized one day capacity building programme and distributed FLDs and input at KVK, Namsai Arunachal Pradesh on 22 September, 2018 under NEH programme.

-Dr. Gopal Lal, Director, participated as a Guest in Foundation Day on 29<sup>th</sup> Sept., 2018 of CAZRI Jodhpur (Rajasthan).

-Dr. Gopal Lal, Director, attended AICRP Spices Workshop during 4-6 October 2018 to be held at YSPUHF, Solan (Shimla), H.P.

-Dr. Gopal Lal, Director, Dr. S S Meena and Dr. Shiv Lal attended National Workshop on Vertical Farming on 17 October, 2018 at NASC, New Delhi chaired by DG, ICAR.

-Dr O P Aishwath participated in National Conference on “Sustainable management of soil and water resources for doubling farmer’s income” during 25-27 October, 2018 at AAU, Jorhat, Assam.

-Dr. Gopal Lal, Director, attended National Conference on Arid Horticulture

during 27-28 October, 2018 to be held at ICAR - CIAH, Bikaner, chaired by T. Mohapatra, Secretary, DARE and Director General, ICAR, New Delhi

-Dr. A K Verma, Scientist, attended International Conference on “Rural Livelihood Improvement by Enhancing Farmers’ Income through Sustainable Innovative Agri and Allied Enterprises (RLSIAAe)” during 30<sup>th</sup> October to 01<sup>st</sup> November, 2018 at Birla Institute of Technology, Patna.

### Best Paper Award:

Best oral presentation award received by Dr. A K Verma on his paper entitled “**Exploring genetic diversity in seed spices through induced mutagenesis**” authored by Verma, A K, Choudhary, S, Dhanasekar, P, Meena, R S, Meena R D and Lal, G. during International Conference on “Rural Livelihood Improvement by Enhancing Farmers’ Income through Sustainable Innovative Agri and Allied Enterprises (RLSIAAe)” (30<sup>th</sup> October to 01<sup>st</sup> November, 2018) at Birla Institute of Technology, Patna (Bihar).

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