



# NEWS LETTER

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**NATIONAL HORTICULTURAL RESEARCH AND  
DEVELOPMENT FOUNDATION (NHRDF)**



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## (A) RESEARCH HIGHLIGHTS

A total of 51 trials were conducted in different disciplines during kharif, 2021 which include 25 trials on storage continued from late kharif and Rabi 2020-21 trials. Three trials which concluded for two or three years with consistent results have been combined. The results of these trials are given as under: -

### Effect of pre and post emergence herbicides application through drip irrigation system in onion

- To control the monocot as well as dicot weed population during kharif season in onion by the herbicides application through drip irrigation without any adverse effect in onion bulb crop results revealed that;
- Under Nashik (Maharashtra) climatic conditions, the soil microorganism's population count decreased due to herbicide application, however at the time of crop harvest the population count was restored with due course of time period.
- The treatment i.e. three times hand weeding performed superior over other treatments in terms of highest weed control efficiency, gross yield and marketable yield with benefit: cost ratio 2.41:1.0.
- Among the herbicide treatments through drip irrigation, the treatment Pendimethalin 30 % EC @ 1.5 L/ha application through drip before transplanting; one hand weeding at 30 days after transplanting; 0.500 L /ha ready mix formulation of propaquizafop 5% + oxyflurofen 12% w/w EC application through drip at 35-40 days after transplanting recorded highest weed control efficiency (77.53%) and marketable yield (115.93 q/ha) with benefit: cost ratio (2.56:1.0), while highest benefit: cost ratio (2.57:1.0) was recorded in treatment Combined application of oxyflurofen @ 0.300 l/ha and quizalofop ethyl @ 0.600 L/ha application through drip before transplanting; one hand weeding at 30 days after transplanting; combined application of oxyflurofen @ 0.300 L/ha and quizalofop ethyl @ 0.600 L/ha application through drip at 35 – 40 days after transplanting.
- However, the check treatment herbicide application by foliar mode (Combined foliar application of oxyflurofen @ 1 ml/L and quizalofop ethyl @ 2 ml/L before transplanting; one hand weeding at 30 days after transplanting; combined foliar application of oxyflurofen @ 1 ml/L and quizalofop ethyl @ 2 ml/L at 40 days after transplanting) performing better over all the herbicide treatments through drip irrigation in terms of weed control efficiency (79.02%) and marketable yield (124.57 q/ha) with highest benefit: cost ratio (2.61:1.0).

## (B) NEWS AND VIEWS

### Celebration of Republic and Independence Days:

All centres of NHRDF celebrated Republic Day and Independence Day with national spirit and patriotic fervor. The national flag was hoisted and national anthem was sung by all the employees at HO and at each centres. The glimpsed of celebration are depicted below:



NHRDF, New Delhi



NHRDF, Boudh



NHRDF, Karnal



NHRDF, Nashik

### Agriculture Secretary, Govt. of India , visited NHRDF, Nasik

Hon'ble Sh. Manoj Ahuja IAS, Secretary, Sh. Abhilaksh Likhi, IAS, Additional Secretary, and Sh. Prabhat Kumar, Horticulture Commissioner, Dr. N.K Patela Addl. Commissioner (Horti), Dept. of Agriculture and Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Govt of India has visited RRS Nashik on 27th December 2022. He saw NHRDF activities and appreciated the work done by NHRDF for development of onion and garlic varieties and technologies to the Nation .





Dr Subrato Gupta, IAS, Additional Chief Secretary, Food Processing Industries and Horticulture, Govt of West Bengal visited Head office, New Delhi on 3<sup>rd</sup> Sep 2022 and appreciated the work done on seed of vegetables crop including onion & garlic to the nation.

**A. Inauguration of Dehumidified Seed Store at KVK Ujwa Delhi**

NHRDF established dehumidified seed store under MIDH scheme, Ministry of Agriculture & Farmers Welfare Govt of India. Sh. Ashwani Kumar, Joint Secretary (seed), Ministry of Agriculture & Farmers Welfare, Government of India, Inaugurated the Dehumidified Seed Store on 25<sup>th</sup> March 2022 at KVK Delhi.



**B. Solar Farm Demonstration Unit at KVK Ujwa, Delhi**

Dr. G.R. Chintala, Chairman, NABARD Inaugurated the Solar Farm Demonstration Unit at KVK, Delhi on 23<sup>rd</sup> Feb 2022 and appreciated the three tire cropping system to pave way the doubling farmers income



### C. High Power Delegation Visited at NHRDF Centres

Dr. M. Angamuthu, IAS, Chairman, APEDA, Ministry of Commerce & Industry, Govt. of India, Visited NHRDF Nasik On 4<sup>th</sup> March 2022.



### 169<sup>th</sup> Managing committee Meeting

168<sup>th</sup> & 169<sup>th</sup> Managing committee meeting of NHRDF was held on 7<sup>th</sup> March 2022 & 23<sup>rd</sup> Dec, 2022 at Bagwani Bhawan New Delhi under the chairmanship of Hon'ble President Dr. Bijinder Singh. During the meeting agenda notes pertaining to administration, finance, research & development and policy matter were discussed and approved.



### 84<sup>th</sup> Scientific Advisory Committee Meeting

The 83<sup>th</sup> & 84<sup>th</sup> Scientific Advisory committee Meeting of NHRDF was held on 8<sup>th</sup> April 2022 & 24<sup>th</sup> December 2022 Under the Chairmanship of Dr. A.K. Singh, DDG,(Horti) ICAR. The progress of research work done during kharif 2021 was discussed and the technical programme for kharif 2022 – 23 was approved



## (C) Human Resource Development

### MUSHROOM TRAINING PROGRAMME AT NHRDF



Chief Guest Shri Manoj Kumar IAS, Director (Hort.) Ministry of Agriculture & Farmers Welfare, Govt. of India distributed certificate during closing ceremony of training programme on mushroom production technology organized by NHRDF New Delhi on 16<sup>th</sup> April 2022.



Chief Guest Sh. Prabhat Kumar, Horticulture Commissioner, Ministry of Agriculture and Farmers Welfare, Govt. of India has Inaugurated training programme on “Mushroom Production Technology” organized at New Delhi on 8<sup>th</sup> November, 2022.



Dr. S. K. Malhotra, Project Director, ICAR, DKMA inaugurated training programme on “Mushroom Production Technology” organized at Bagwani Bhawan, New Delhi on 12th April 2022.



Dr. S. K. Dwivedi, Director, DRDO, Ministry of Defence, Govt. of India was the Chief guest in closing ceremony of 5 days training program on 2<sup>nd</sup> December, 2022 on Mushroom Production at NHRDF, New Delhi



Training programme on Package and Practices of onion cultivation was conducted at Horticulture Research and Development Farm, Department of Food Processing Industries and Horticulture, Govt. of West Bengal, District Bankura on 7 – 8 Dec 2022 .



Sh. G. Subhash Nagre, Project Director , RKVY, Govt. of Maharashtra is a Chief Guest during inaugural ceremony of training programme on 24<sup>th</sup> March, 2022 organised by RRS, NHRDF, Nasik

#### (D) Participation In Extension Activities

Hon'ble Sh. Narendra Singh Tomar, Minister of Agriculture and Farmers Welfare, Government of India, Hon'ble Sh. Abdhul Sattari, Agriculture Minister, Government of Maharashtra, Sh. Manoj Ahuja, IAS, Secretary Agriculture, Sh. Abhilaksh Likhi, IAS, Addl. Secretary, Sh. Priya Ranjan, Joint Secretary, IFS MIDH & INM, Government of India visited NHRDF stall at VAMNICOM, Pune on 01/11/2022 and appreciated the work done by NHRDF for development in onion and Garlic in the country.

Hon'ble Agriculture Minister of Haryana, Sh. J.P. Dalal visited the NHRDF stall in 8th Vegetable Expo on 09-11 April, 2022 and appreciated the work done by NHRDF for development in onion and Garlic in the country



Farmers training programme from ATMA Baran Rajasthan on RRS organized at RRS, Nashik on 12.12.2022



Farmer Producer Organization Palwal, Haryana visited at RRS, Karnal on 03.03.2022.



**(E). Electronic Media Coverage**

ક્ર.સા	વિષય	પેજિંગ	પ્રકાશન તારીખ	વિષય વિશેષતા
1.	મરુમોહાની ઉમરજ સેવા હેઠળે લેવેપરુજ ઓપરેશન	ઓજ હરિદેશક રેડિયો	04 જાનવરી 2022	શ્રી: મરુ પ્રજા ફિંગ
2.	અધિક ભાગ લેસ જિગ લેસ લેસે પ્રાક લી રેલી	કુન18 (કેનકેસ)	20 જાનવરી 2022	શ્રી પ્ર-લેસ રિટક
3.	ઉજાઓ સહિયો લે પ્રકાલેરુક	ઓજ હરિદેશક રેડિયો	1 ઉરવરી 2022	શ્રીWરિયુકિંગ
4.	સીસલોગીમ સહિયો લી સેપીરી	શ્રી શ્રી લેસક	16 ઉરવરી 2022	શ્રી પ્રકેસ લુકાં
5.	સરલેસ લી સહિયો સલેલીલે	શ્રી શ્રી લેસક	25 ઉરવરી 2022	શ્રી પ્ર-સી સિલેરી
6.	ઉજા વ સહિયો લે સિયોલેરુક પ્ર અપાં લેસક લી રિયો	ઓજ હરિદેશક રેડિયો	8 સપ્ટ 2022	શ્રીWરિયુકિંગ
7.	ધી ઓરુ પ્રોલે હલેલે સેલેસલે	રેડિયો લેસક	14 સપ્ટ 2022	શ્રી પ્ર-લેસ રિટક
8.	પ્રાક લી રુપાલે પ્રલેસક	ઓજ હરિદેશક રેડિયો	16 સપ્ટ 2022	શ્રીWધી લેસ સુલક
9.	સરુપાલે પ્રાક	શ્રી શ્રી લેસક	29 સપ્ટ 2022	શ્રી: શ્રી લેસ પ્રલેક
10.	ઉમરજ અલેસક પ્રલેસ પ્ર લેસક લેસક	શ્રી શ્રી લેસક	30 સપ્ટ 2022	શ્રીWધી લેસ સુલક
11.	સલેસ અલેસ લે પ્રકાલેરુક	શ્રી શ્રી લેસક	26 અરુજ 2022	શ્રીWરિયુકિંગ
12.	પ્રલેસ સે હીલે હલે પ્રલેસ પ્રલેસ	શ્રી શ્રી લેસક	07 સપ્ટ 2022	શ્રીWલે પ્રલેસક
13.	સિલે ઓરુ પ્રલે લે પ્રીલે	શ્રી શ્રી લેસક	9 સપ્ટ 2022	શ્રી લેલેસ પ્રલેસ
14.	પ્રાક લી રુપાલે પ્રલેસક	શ્રી શ્રી લેસક	18 સપ્ટ 2022	શ્રીWધી લેસ સુલક
15.	સરલેસ લી રેલી પ્ર લીસરી સેસ લેસક	શ્રી શ્રી લેસક	30 સપ્ટ 2022	શ્રી પ્ર-સી સિલેરી
16.	લેસક સે સહિયો લી રેલી	શ્રી શ્રી લેસક	21 જુન 2022	શ્રી પ્રકેસ લુકાં
17.	ઉલેસક લે લેરી પ્રાક	શ્રી શ્રી લેસક	23 જુન 2022	શ્રી જય લેલેસક
18.	સરલેસ લી લેલેલે સેપીલે લેસક	શ્રી શ્રી લેસક	19 જુનલે 2022	શ્રીWલેલેસક લુકાં પ્રલેક
19.	રુપી ઉ પ્રાક વ જુલેસ લી રેલી	શ્રી શ્રી લેસક	21 જુનલે 2022	શ્રીWધી લેસ સુલક
20.	લેસક સે પ્રાક વ જુલેસ લે પ્રલેસ	અલેલેલે	22 જુનલે 2022	શ્રીWધી લેસ સુલક
21.	સલેસ અલેસ લે પ્રકાલેરુક	શ્રી શ્રી લેસક	27 જુનલે 2022	શ્રીWરિયુકિંગ
22.	રુપી ઉ પ્રાક લે સેસક લેલેલે લેલે	શ્રી શ્રી લેસક	29 જુનલે 2022	શ્રી: પ્રલેસક રિટક
23.	લેસક લે સેલેસ સે પ્રલેસ પ્રલેસ વ રીલેલે	શ્રી શ્રી લેસક	04 અલેસ 2022	શ્રીWલે પ્રલેસક
24.	લેલેલે સહિયો સલેલીલે	શ્રી શ્રી લેસક	05 અલેસ 2022	શ્રી લેલેસ લુકાં
25.	સરુપાલે પ્રાક લે અલેલે અલેસ	શ્રી શ્રી લેસક	28 અલેસ 2022	શ્રીWલેલેસક લુકાં પ્રલેક
26.	રુપી ઉ પ્રાક લી રેલી	શ્રી શ્રી લેસક	22 સિલેસ 2022	શ્રીWધી લેસ સુલક
27.	લેલેસ પ્રાક લે પ્રલેસક	શ્રી શ્રી લેસક	25 સિલેસ 2022	શ્રીWલે પ્રલેસક
28.	સલેસ અલેસ લે પ્રકાલેરુક	શ્રી શ્રી લેસક	27 સિલેસ 2022	શ્રીWરિયુકિંગ
29.	અધિક ભાગ લેસ જિગ ઉમરજ સે સહિયો સહિયો લે પ્રલેસ લેસ લેસ	અલેલેલે	14 અરુજ 2022	શ્રીWસરુ પ્રજા ફિંગ
30.	વિલેસ વિસરેલે પ્રલેસ અલેસ વ સહિયો	શ્રી શ્રી લેસક	15 અરુજ 2022	શ્રીWરિયુકિંગ
31.	જુલેસ સહિયો સલેલીલે વ પ્રલેસ	અલેલેલે	27 અરુજ 2022	શ્રીWધી લેસ સુલક
32.	સરુપાલે પ્રાક	શ્રી શ્રી લેસક	31 અરુજ 2022	શ્રીWલેલેસક લુકાં પ્રલેક
33.	સીસલોગીમ સહિયો લી રેલી	શ્રી શ્રી લેસક	04 સલેસ 2022	શ્રી પ્રકેસ લુકાં
34.	રુલી સે પ્રાક વ જુલેસ લી રેલી	શ્રી શ્રી લેસક	30 સલેસ 2022	શ્રીWધી લેસ સુલક
35.	સુલે વ જય જય લે સહિ	અલેલેલે	05 સિલેસ 2022	શ્રી લેલેસ લુકાં
36.	અલે લે સુલે પ્રલેસ વ પ્રલેસ પ્રલેસ	શ્રી શ્રી લેસક	13 સિલેસ 2022	શ્રી પ્રકેસ લુકાં
37.	ઉજા સહિયો પ્રકાલેરુક વ પ્રલેસ લી સહિલે	અલેલેલે	21 સિલેસ 2022	શ્રીWરિયુકિંગ
38.	પ્રલેસ પ્રલેસ લેલેલે	શ્રી શ્રી લેસક	22 સિલેસ 2022	શ્રીWલે પ્રલેસક

## (F) PUBLICATIONS

### A) Research Papers

M. K. Pandey, P. K. Gupta, R. C. Gupta, M. K. Pathak, Satyendra Singh and Ashok Tailor(2022) Efficacy of triazole fungicides against Stemphylium blight of onion. The Pharma Innovation Journal 9 (11): 2366-2371.

Sujay Pandey, MK Pathak, MK Pandey, Satyendra Singh and PK Gupta (2022) Effect of different insecticides along with silica and nonsilica-based surfactant for management of thrips in onion. The Pharma Innovation Journal 11(9): 142-146

### B) Book Chapters

M. K. Pandey, M.K. Pathak, Sujay Pandey, R. C. Gupta Satyendra Singh and P. K. Gupta (2022)

Production of Quality Planting Bulbs of Garlic through Scientific Approaches, Current Horti Book PP-27-38,

### C) Popular Articles

Gupta, R. C. and P. K. Gupta (2022). Pyaj ke rogo ka ekikrit prabandhan. Phal Phul. March-April, 2022: 55-58.

Gupta, R. C., Sujay Pandey, S. Singh and P. K. Gupta (2022). Weather Apps of Smartphone: help for management of thrips and foliar diseases of onion by preventive spray of pesticides based on weather forecast. Agriculture & Food E-Newsletter. 4(4): 348-353.

M. K. Pathak, M. K. Pandey, S. Pandey, S. Purushottman, R. C. Gupta and P. K. Gupta (2022). Destructive insect pest white fly for horticultural crop in India. Just Agriculture e-newsletter; 85, 2 (8): 1-6.

M. K. Pandey, P. K. Gupta, M.K. Pathak, R. C. Gupta, Sujay Pandey, Satyendra Singh and Sandip Lawand Nematode problem and their management in horticultural crops under protective cultivation The Scientific Agriculture-magazine 01(02)/- 06-08 .

## (G) VISITORS

### Delhi

Shri Manoj Kumar IAS, Director (Hort), Ministry of Agriculture & Farmers Welfare, Govt. of India New Delhi on 16 April 2022

Shri S. K. Malhotra, Project Director, ICAR, Directorate of Knowledge Management Agriculture (DKMA) on 12 April 2022.

Dr Subrata Gupta, IAS, Additional Chief Secretary, Food Processing Industries and Horticulture, Govt of West Bengal, visited on 3rd Sep 2022.

Dr. Prabhat Kumar, Horticulture Commissioner, Ministry of Agriculture and Farmers Welfare, Govt of India has visited 08th November 2022

Dr S.K.Dewadi, Director,DRDO, Ministry of Defence, Govt of India visited 02.12.22

### Nasik

Dr. Madhaiyaan Angamuthu, IAS, Chairman, (APEDA), New Delhi, visited Nasik on 04/3/2022

Shri Subhash K Nagare, Director, Agri. Processing & Planning, Commissionerate of Agriculture, Maharashtra visited on 24/03/2022

Dr. Richard Lobo, Global Head Innovation and Business Excellence, Tata Chemicals Ltd., Mumbai visit on 19.5.2022

Dr. Bharati Pawar, Honble Minister of State, Sh. Hemant Godse, MP visit on 28.6.2022

Dr. Hoshiyar Singh Deputy Director, Horti., NHB, New Delhi on 28/06/2022

Dr. Sandip Subedi, Dr. Bijaya Kumar Gir ,Dr. Kishor Man Shrestha, Dr. Preeti Singh Department of Agriculture Potato Development Center, Nepal visited on 08.7.2022.

Dr. Bibhuti Bhushan Sahoo, Jr. Scientist (H), RRTTS, Bhawanipatna (OUAT) and Sh. Sukant Kumar Subudhi, Joint Director of Horticulture- visit Lasalgaon on 16.11.2022

Mr. Kane Bak, Project Head, CPB, Project South Korea visited RRS Nasik on 17.12.2022

Hon'ble, Secretary Agriculture, Sh. Manoj Ahuja, IAS, Sh. Abhilaksh Likhi, IAS, Additional Secretary, and Sh. Prabhat Kumar, Horticulture Commissioner, Dr. Naven Patle, Addl Commissioner Ministry of Agriculture and Farmers Welfare, Govt of India has visited RRS Chitegaon Nashik on 27th December 2022.

### Sinnar

Hon'ble Dr. Bijendra Singh, President NHRDF & other board of Director visited Sinnar on 30.07.2022

Dr Kailas Mote, Director of Horticulture, Govt. of Maharashtra visited Sinnar on 24/09/2022

### Boudh

- Sh. Francis Barla, District Project Manager, Odisha Livelihood Mission, Boudh on 13.01.2022.
- Sri. Rakesh Kumar Mishra, Assistant Horticulture Officer, Athmallik on 14.03.2022.
- Dr. Michael Baun, DDG, Research, ICARDA, Dr. Shiv Kumar Agarwal, Regional Coordinator, ICARDA & Dr. N. Swain, Team leader, ICARDA, Bhuvneshwar , Odisha on 22.03.2022.
- Sri. Jyoti Ranjan Mishra, OAS Managing Director, Odisha State Seed Corporation Limited, Bhubaneswar on 29.04.2022.
- Sj. Pradip Kumar Amat, Hon'ble Minister, Dept. of Forest & Environment, Panchayati Raj & I & P.R Dept, Govt. of Odisha had visited along with Sj. Lalatendu Mishra, Hon'ble Collector cum D.M, Boudh, Sj. Aswini Kumar Meher, P.D, DRDA, Boudh on the eve of "Akshaya Tritiya" for Bhumi Poojan on 03.05.2022.
- Sh. Aditya Kumar Panda, Marketing Manager, OSSCL, Bhubaneswar and Sh. Jogendra Nath Mohapatra, ADH, Boudh 20.05.2022.
- Dr. P. Sri Nivas, Principal Scientist, CHES, Bhubaneswar on 15.11.2022

### Karnal

- Dr. V.S. Pandey, AGM (Prod.) NSC, New Delhi & Sh. Nanu Ram Yadav, Regional Manager, Chandigarh visited at RRS, Karnal on 22.03.2022.
- Dr. Hardeep Singh, Deputy Director (Hort.), Sangrur (Punjab) & Dr. Prahlad Singh, Horticulture Development Officer, Sangrur visited at RRS, Karnal on 24.05.2022
- Dr. Tijaart Hofman, Onion Specialist Govt. of Netherlands Govt. on 25.07.2022.
- Dr. Nirwant Singh Deputy Director (Hort.) Barnala (Punjab) on 25/07/2022.
- Dr. S.K. Singh Director ATARI, Jodhpur (Raj.) on 25/08/2022
- Dr. R.K. Singh, Agri. Extn. Specialist JICA, TCP, Hamirpur (HP) on 21/09/2022

### Indore

- Sh. Abhay Jain, Seed Certification Officer on 17/01/2022
- Sh. S. C. Sharma, Dy. Director of Horticulture on 26/04/2022
- Sh. M. K. Rawat, Branch Manager, NAFED, Indore on 27/5/2022

### Hubli

- Dr M S Lokesh, Special officer seed, UHS, Bagalkot, on 28.06.2022
- Dr B.S. Tomar, JD ICAR-IARI, New Delhi on 06.08.2022

## (H) PERSONNEL

### Retirement

(Jan. to Dec. 2022)

S. No.	Name of the Staff	Center	Retired Date
1	Shri H. P. Sharma, Joint Director (Stat.)	New Delhi	28/02/2022
2	Shri B. S. Negi, Technical Assistant,	Nashik	31/03/2022
3	Shri D. D. Dubey, Driver	New Delhi	31/05/2022
4	Shri R. P. Shukla, Technical Officer (Residue Analysis)	Nashik	31/05/2022
5	Shri K.V. B. Reddy, Sr. Account Assistant	Karnal	31/05/2022
6	Shri K. V. Gnanasundaram, Technical Officer ( Horticulture),	Coimbatore	30/06/2022
7	Shri D. G. Pawar, Attendant	Lasalgaon	31/08/2022

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