



e-NEWSLETTER



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Plant Protection Adviser's Desk



During the period 2022-23, the Directorate of PPQ&S achieved all the targets with several new initiatives such as launching of Comprehensive Registration of Pesticides (CROP)-Portal, Plant Quarantine Management System (PQMS) - Portal and implementation of e-Office in the Directorate, successful negotiation with various countries on Phytosanitary issues for gaining new export

market for Indian agricultural products, creation of two new units; "Capacity Building Unit" with the purpose of human resource development & publication of quarterly "e-Newsletter" for showcasing the Directorates activities on digital platform and "IPPC-Codex Unit" for continuous monitoring of World Trade Organization-Sanitary & Phytosanitary (WTO-SPS) notifications and International Plant Protection Convention (IPPC) activities.

During the year Directorate has participated in International Conferences, meetings of the IPPC and Asia Pacific Plant Protection Commission (APPPC). In the 32nd session of APPPC held at Bangkok, Thailand during 7-11 November, 2022 the participating representative unanimously elected India to chair IPM Standing Committee for the next biennium and it was also decided that India will host IPM Workshop on Systems Approach for Management of Mango Fruit Flies.

Sh. Ashish Kumar Shrivastava, Joint Secretary (PP) & Dr. J.P. Singh, Plant Protection Adviser represented India in the Seventeenth Session of IPPC Commission on Phytosanitary Measures (CPM 17) held in Rome, Italy during 27-31 March 2023 and contributed on various phytosanitary matters where in preventing the spread of pest in the international trade discussed and adopted during the session.

Efforts were made in compliance to the mission mode recruitment campaign launched by the Honorable Prime Minister and consequently numbers of new officials have joined the Directorate during the year 2022-23.

Our coordinated efforts have made positive impact amongst farmers to adopt Integrated Pest Management techniques which eventually led a way for judicious use of chemical pesticides as well as reducing the input cost. Awareness among farmers, farm input dealers and Agriculture extension officers for safe and judicious use of approved pesticides has developed better understanding towards proper use of inputs at various levels. Directorate extended significant technical contribution towards the management of widespread attacks of major pests such as whitefly, thrips, jassids and pink bollworm infestations in cotton, dwarf virus in rice and cucumber mosaic virus in banana.

Directorate continuously contributed for setting guidelines and certification of facilities needed to address phytosanitary concerns for export such as pack houses, processing units and phytosanitary treatment facilities, phytosanitary Service Agencies with the aim to promote the export of agricultural commodities. Use of mobile app for reporting phytosanitary inspection, launch of e-phyto and preparedness for launching PSSA/PSSP are the important milestones achieved during the period.

The Central Insecticides Board and Registration Committee, Central Insecticide Laboratory and Regional Pesticide Testing Laboratory played their role very well to ensure availability of effective and safe pesticides to the farmers for mitigating pest threats.

Directorate is fully committed to deal the challenges arising due to climate change, introduction of new varieties, change in pest status & pest introduction and continue to work in close coordination with Department of Agriculture/ Horticulture of the States and Research Institutes of the Indian Council of Agricultural Research (ICAR), State Agricultural Universities (SAUs) and other related agencies.

I take this opportunity to appreciate Directorate's officers and staffs for their dedication towards accomplishments of given tasks and express my sincere gratitude to our senior officers of the Ministry for continuous support, encouragement and guidance for implementing various programmes/ activities on plant protection.

- Dr. J.P. Singh

Plant Protection Adviser



Catalogue:

- Highlights
- International Participations
- Bilateral Phytosanitary Negotiations
- Trainings and Workshops
- Special Achievements & Events
- Publications
- Media Coverage
- Success Stories

New Appointments:

34 incumbent joined as Assistant Plant Protection Officers, Technical Assistant, Multi-Tasking Staff, Data Processing Assistant and lower division clerk in the Directorate during the quarter January to March, 2023.



Rajbhasha Hindi:

The Parliamentary Committee on official language headed by Honorable MP, Prof. Rita B Joshi



visited the Regional Plant Quarantine Centre in Mumbai on 17.01.2023. The committee observed the work of official language Hindi being done in the presence of senior officers of the ministry and the department.



Second Official Language Inspection by the Sub-Committee of Parliamentary Committee on official language of LCO, Bikaner on 25.02.2023.

Locust Warning Organization (Efforts by LWO/LCOs/FSIL):

- Conducted Desert Locust Survey in 28.41 lakh ha. and Published & circulated 06 locust information bulletins during the quarter highlighting current locust situation in India and neighbouring countries.

Central Insecticide Laboratory, Regional PTLs and Techno Legal Cell:

- ♦ RPTL's tested 498 numbers of samples and 18 of which were declared misbranded.
- ♦ The CIL tested 521 samples, out of which 112 were found misbranded.

Central Insecticide Board and Registration Committee:

- The committee has issued Certificate of Registration for a total number of 46,279 pesticides out of which 52 were issued for new molecules.

Planning and Coordination Unit:

- 25 newly recruited officials of the Dte. were given induction training at National Institute of Plant Health Management (NIPHM) Hyderabad.
- A total of 46 nos. of RTI requests and 64 of grievance requests were resolved during the quarter.



Integrated Pest Management (Efforts of CIPMCs):

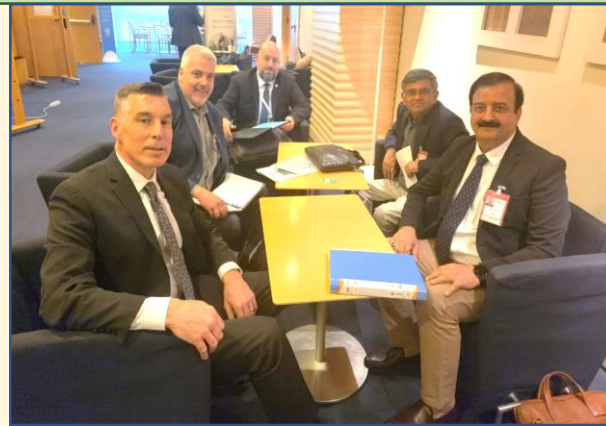
- ♣ During the period 2.96 lakh ha. of crop area was surveyed and issued three advisories for the management of the important pests.
- ♣ In Rabi season 230 FFS were conducted in which 8050 farmers were trained about IPM practices.
- ♣ 1144.42 million biocontrol agents were released across 0.55 lakh ha. area for managing pests.
- ♣ Successfully conserved the natural habitat of bio agents in over 2.27 lakh ha.
- ♣ 47 two days HRD programmes were conducted where 2577 Nos. of AEOs, NGOs, Lead Farmers, Private Entrepreneurs were trained on IPM measures.
- ♣ Six nos. of five days HRD programmes were conducted where 243 Nos. of AEOs of various states were trained on IPM measures.

Plant Quarantine (Efforts made by PQ stations):

- ♣ Facilitated export of Agricultural commodity and issued 1,56,629 numbers of Phytosanitary Certificates for 150.29 lakh MTs. of various Agricultural commodities.
- ♣ Issued Import clearance for 30,730 numbers of Agricultural consignments for 40.30 lakh MTs.
- ♣ 180 numbers of quarantine pests were detected in import consignment and have been succeeded in preventing the entry of exotic pests through an effective PQ inspection system.
- ♣ Successfully negotiated on phytosanitary issues and gained two new market access for export.



Sh. Ashish Kumar Shrivastava, Joint Secretary (PP) & Dr. J.P. Singh, Plant Protection Adviser represented India in the seventeenth session of the Commission on Phytosanitary Measures (CPM), the governing body of the International Plant Protection Convention (IPPC) in Rome, Italy during 27-31 March 2023. Session adopted



amendments to four plant health standards ISPM, 5, 18, 20 & 28 and the IPPC Communications Strategy 2023-2030 which will guide national and regional plant protection organizations (NPPOs, RPPOs) in their communication and advocacy planning.



9th Asia Pacific Seed Association (ASPA) Phytosanitary expert consultation

Dr. Mir Samim Akhtar, DD (E) and Dr. S. Sivarama Krishnan AD (E) participated in the 9th ASPA Phytosanitary expert consultation held at Bangkok, Thailand during 7th to 9th March, 2023. Dr. J.P. Singh, Plant Protection Adviser, DPPQS delivered a special address in virtual platform on Plant Quarantine regulation for hassle free export-import of seeds. The outcome of the APSA expert consultation meeting is to implement the ISPM 38- International movement of Seeds & ISPM 45- Requirements for National Plant Protection Organizations if authorizing entities to perform Phytosanitary actions at Asia Pacific region level.



The First Successful Biocontrol in India was fortuitous!!!!



The Prickly pear (Cacti) gradually spread and eventually became a severe weed pest in North and South India after its introduction for cochineal trade.

Dactylopius ceylonicus was imported instead of *Dactylopius cacti* in 1795 from Brazil to produce commercial dye.

Dye of *D. ceylonicus* was much inferior to *D. cacti* which led to closure of dye producing factories. But, *D. ceylonicus* readily established on cacti in North and Central India bringing about spectacular suppression and affected lands became suitable for cultivation within 6 years.





@ RPQS, Chennai

Demonstration of isolation techniques for Plant Pathogens.

Demonstration of sampling and preparation of primary and representative samples.



@ RPQS, Kandla



@ RPQS, Bengaluru



@ RPQS, Mumbai

Guest lecture by Dr. Abraham Verghese, Chairman Rashvee IPRS, Former Director, ICAR-NBAIR and Former Principal Scientist, ICAR-IIHR



@ RPQS, New Delhi

Demonstration of extraction of nematodes from soil and plant samples.

Exercise on Phytosanitary Inspection by trainees.



@ RPQS, Kolkata

Two Days Capacity Building Training Programme on PQ was organized at Regional Plant Quarantine Stations viz., Mumbai, Chennai, Kandla, Bengaluru, New Delhi and Kolkata during January to March 2023. The trainings were conducted in hybrid mode and the trainees were taught about Plant Quarantine rules and regulations, inspection procedures, pest identification techniques and other topics regarding Plant Quarantine. A total of 259 trainees from the Directorate, State Agri Dept., PSSP & PSSA were trained about various aspects of Plant Quarantine during the training.



Directorate's Archive

Apropos Plant Quarantine.....

1906

First Plant Quarantine Measures

Indian Government ordered compulsory fumigation of imported cotton bales to prevent the introduction of the dreaded Mexican cotton boll weevil (*Anthonomus grandis*)

1914

DIP Act

On February 3, 1914 Comprehensive Plant Quarantine Act, known as **Destructive Insects and Pests Act, (DIP Act)** become operative.

1936-43

Regulating the import of Plants, Insects & Fungi

The gazette notification entitled Rules for Regulating the Import of Plants (in 1936), Insects (in 1941) and Fungi (in 1943) into India

1946

Initiation of Plant Quarantine Activities by IARI.

Plant quarantine activity started with the onset of plant introduction scheme in the Botany Division at Indian Agricultural Research Institute (IARI) New Delhi.

1949

Initiation of Plant Quarantine Activities by DPPQS.

In October 1949, the Directorate started its quarantine activities at Bombay seaport.

To be continued.....



Mass Eradication Campaign for African Snail (*Achatina fulica*)

CIPMC, Ernakulam in collaboration with Kerala State Agricultural Department organized Mass Eradication Campaign for the eradication of African Snail (*Achatina fulica*). Shri. Tom Cherian, APPO (E), delivered a lecture on “Management and Eradication of African Snail (*Achatina fulica*)” at Pallippuram Panchayathhall organized by Chennam Pallippuram Krishi Bhavan, Alappuzha District.

IPM outreach Programme in Spices

- ▲ Sh. Milu Mathew, PPO (PP), CIPMC Ernakulam has delivered the key note lecture on the **Integrated Pest Management in Small Cardamom (*Elettaria cardamom*)** on the 26th foundation day of Spices Board at Spices Park, Puttady, Idukki District, Kerala to the Cardamom Exporters and Farmers on 27th February 2023.
- ▲ CIPMC, Ernakulam has organized One Day Training Programme on **Integrated Pest Management in Spices and Mass production of Bio-Control agents** to the members of Bison Valley Spice Producers Co-operative Society, Idukki on 15.03.2023 as a part of the IPM outreach program.

Workshop on Phytosanitary issues on export for eastern region organized by APEDA and DPPQS at Kolkata on 28.03.2023



Training on mass production of Biocontrol agents

40 Agriculture officers from Nagpur Region visited RCIPMC, Nagpur on 01.02.2023 and undergone training on mass production of *Trichogramma* and *Trichoderma*



Training on Safe and Judicious use of pesticides/MRL

Shri Kiran Deshkar, Joint Director, RCIPMC Nagpur has delivered lecture on Safe and Judicious use of pesticides/MRL at D.G.I.M., Nagpur on date 09.01.2023 in which 30 participants has attended the program.



Coconut Coir Customer Meet with Exporters

PQS, Coimbatore has participated in “Coconut Coir Customer Meet with Exporters” organised by Cochin Port Authority & DP World at Pollachi Near Coimbatore on 25.02.02023 and addressed PQ related issues and also created awareness among exporters.



DPPQS participated in Krishi Mahotsav: Exhibition & Training on 24-25 January 2023 at Kota, Rajasthan. In which more than 3500 farmers, students and eminent persons visited the stalls of the Directorate.

Various practices of Integrated Pest Management (IPM) were explained. Pamphlets and booklets on IPM were distributed to the farmers. The Directorate also received the participation certificate from the Ministry of Agriculture and Farmers Welfare.



Participation in Krushi Odisha 2023

CIPMC Bhabaneshwer participated in **Krushi Odisha 2023** organized by **Government of Odisha, Department of Agriculture & Farmers' Empowerment** which was arranged by FICCI (Federation of Indian Chambers of Commerce & Industry) from 16-18th February 2023.



Participation in Krishi Mela and Tilhan Mela



RCIPMC Lucknow participated in **Krishi Mela** held on 03-03-2023 at Bahraich, KVK-I and

Tilhan Mela organized by Krishi Vigyan Kendra, Dhaura, Unnao on 04.03.2023.



Special Achievements & Events

Participation in Krishi evam Swasthya Amrit Mahotsav & Mega Agri Expo-2023 organised by KVK, Basaith Madhubani.

CIPMC, Patna participated in "Krishi evam Swasthya Amrit Mahotsav & Mega Agri Expo-2023" from 11th to 13th February, 2023 at KVK Basaitha, Madhubani district of Bihar. **CIPMC Patna has received best**



exhibition stall award by Ex-minister of state for agriculture to the Govt. of India Sh. Hukum Dev Narayan Yadav.

Oral Presentation award at NBAIR Conference

Dr. Ranjith M, APPO (E), RCIPMC, Bengaluru obtained **best oral presentation award** for his research work entitled "**Tritrophic interaction between aphids, coccinellids and parasitoids in pink shower ecosystem**" in "7th National Conference on Biological Control: 75 years of Biological Control of Pests and Diseases in Agriculture: Challenges and the Way Forward" organized by ICAR- National Bureau of Agricultural Insect Resources, Bengaluru, India and Society for Biocontrol Advancement, Bengaluru, India which was held during 15-17 December 2022 at Yelahanka, Bengaluru.



The Gazette of India Notifications

Under the Insecticides Act, 1968/ the Insecticides Rules, 1971
 1.S.O. 701(E) dated 02.02.2023- Draft Notification for (1) prohibition of three pesticides Dicofol, Dinocap & Methomyl and (2) omission of label claim from some crops for pesticides Carbofuran, Malathion, Monocrotophos, Quinalphos, Mancozeb, Oxyfluorfen, Dimethoate & Chlorpyriphos.
 2. G.S.R. 140(E) dated 24.02.2023 – Notification of qualification of person to be employed in pesticide manufacturing units;
For manufacture of technical grade insecticides- Doctorate in Chemistry or Agriculture Chemistry or Agriculture Chemicals or Master of Technology or Master of Science in Chemical Engineering or equivalent.
For manufacture of insecticides formulations- Graduate degree in Agriculture or Science with Chemistry as one of the subject
 3.G.S.R.173(E) dt. 07.03.2023 –Draft Notification in the Insecticides Rules, 1971, in rule 10, in sub-rule (1A), in the first proviso, for the figures, letters and word "31st December, 2022" the figures, letters and word "31st December, 2023" shall be substituted.

4.G.S.R. 172(E) dated 07.03.2023 – Draft Rule-
 (a) Substitution of the words (i) Indian Grain Storage Institute, Hapur to Indian Grain Storage Management & Research Institute, Hapur and National Plant Protection Training Institute, Hyderabad to National Institute of Plant Health Management, Hyderabad.
 (b) any person who apply for grant of license for the Pest Control Operations using only Glyphosate and its derivatives shall undergo a training exclusively for Glyphosate usage, from any of the following Institutions - any State Agricultural University or Krishi Vigyan Kendra or National Institute of Plant Health Management, Hyderabad or State Agricultural Management and Extension Training Institute or Central or State Agricultural Research Institute or any other Government recognized university or institute or Central or Regional Integrated Pest Management Centre (CIPMC) with NIPHM as the implementing nodal agency for course curriculum and monitoring of the training programme.
 5.G.S.R. 211(E) dated 17.03.2023- Notification regarding QR Code and labelling in retail packaging of pesticides.

Celebration of 74th

Republic Day.



74th Republic Day was celebrated in the Directorate on 26th January 2023. Dr. J. P. Singh, PPA unfurled the tricolour and honoured the architects of our constitution. All the staff from the Directorate were also present at the event.



WANNA EXPORT MANGO...

A glance at Phytosanitary aspects

Hello Officer!! can you guide me for mango export to EU countries & USA...?

Sure.... It's my pleasure

Procedure

1



Orchards registration with State Horticulture Department and management of pests in the field

2



Pack house & treatment facility registration

3



Free from pest

Treatment and pest freedom



Surface sterilization with Hot Water

&



Irradiation



Hot Water Treatment OR



Vapour Heat Treatment

Obtain Phytosanitary Certificate before export

Visit: <https://pqms.cgg.gov.in/pqms-angular/>

Human Resource Development Training Programme in IPM

Five Days training programme

Group Dynamics



Field Survey @ RCIPMC, Lucknow



Seed Treatment Demonstration @ RCIPMC, Guwahati



Visit to Vermicomposting Shed @ RCIPMC, Nagpur



Field Survey @ RCIPMC, Bengaluru



Technical session @ CSSRI, Karnal by RCIPMC Faridabad



AESA chart presentation @ RCIPMC, Kolkata

Six nos. of five days HRD programmes were conducted where 243 Nos. of Agri. Extension Officers of various states were trained on IPM measures.

Two Days Training Programme



Demonstration of preparation of Biocontrol agent and their use by CIMPC Bhubaneswar.

IPM Exhibition stall by RCIPMC, Faridabad

47 two days HRD programmes were conducted where 2577 Nos. of AEOs, NGOs, Lead Farmers, Private Entrepreneurs were trained on IPM measures.



Demonstration of collection of insect specimens by CIPMC Trichy.

Demonstration of mango tree banding to prevent from mealybugs by CIMPC Vijayawada.



Farmer Field School

Demonstration of Banana pseudo stem borer trap installation by CIPMC Ernakulam.

Demonstration of soil solarization by CIPMC, Shillong.

In Rabi season 230 FFS were conducted in which 8050 farmers were trained about IPM practices.

Demonstration of Soil Sampling by CIPMC Nashik.

Demonstration of use of pheromone trap by CIPMC, Dehradun.



Bilateral Phytosanitary Negotiations



India-Canada Plant Health Technical Working Group workshop was held on 2nd March 2023 to discuss the bilateral issues regarding grant of market access for Maize grains for consumption.



Dr. Ranjit Singh, Director (PP), DA&FW, Dr. C. S. Patni, DD (PP) and Dr. Micheal Raja AD (E) visited New Zealand during 20-22 of February 2023 for Onsite audit of System Approach of Kiwano fruits.

The officials present were, Shri. Ashish Kumar Shrivastava, JS (PP), Dr. Ranjit Singh, Director (PP), Dr. J.P. Singh, PPA, Dr. Gnanasambandan, JD (PQ), Mrs. Kamini Tandekar, DD (PP), Dr. Michael Raja, AD (E) & Dr. Ramanna Koulagi, AD (E) and the delegates from the Canadian Food Inspection Agency

Publications



- J. Raju, P.R. Thimmegowda, S.N. Shivakumar, Sivarama Krishnan, C. Elangovan, Sunitha Pandey and J.P. Singh (2023), Rice false smut disease: An emerging threat to the paddy growers in Tamil Nadu, *Journal of Eco-friendly Agriculture*, 18(1): 200-202.
- Agnes Jose & Milu Mathew (2022): Effects of Entomopathogenic fungus, *Isaria fumosorosea* on *Aphis gossypii* Glov. *J. ent.Res.* 46 (Suppl): 977-980.

Dignitary Visits

Sh. Vivek Singh, Director (Agriculture), Govt. of U.P. & Sh. T. P. Choudhary, Additional Director of Agriculture (PP), Govt. of U.P. visited RCIPMC, Lucknow Bio-control laboratories on 6th February, 2023.



Media Coverage



Dr. V. D. Nigam, DD (E) delivered a talk in DD Kisan on damages and symptoms caused by pink stem borer in wheat and its management using IPM practices.

Dr. K. L Gurjar, JD (PP) delivered a talk in DD Kisan on Integrated management of rust disease in wheat crop.



Success Story

Establishment of Bio-control Laboratory by farmer



A progressive farmer Mr. Rajeev Ojha of Village: Koshimba Taluka: Dindori, Dist-Nashik is growing Bell pepper in polyhouse He took Hands on training of different biocontrol agents like Trichogramma spp, Anthocorid bug (*Blaptostethus pallescens*), Green lace wing (*Chrysoperla carnea*) along with host rearing - *Corcyra cephalonica*. CIPMC, Nashik has visited the farmer and provided guidance for the establishment of laboratory along with initial culture. Now he is successfully producing biocontrol agents such as Anthocorid bug, Green lace wing and adopted IPM Technologies.



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