



NEWSLETTER

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July-September 2022

Plant Protection Adviser's Desk



In addition, Dte. is also actively involved in Quality control of pesticides and bio-pesticides. The samples are being drawn by Central/ State Insecticide Inspectors and samples are testing in Regional Pesticide Testing Laboratories (RPTL) and Central Insecticide Laboratory. Pesticide registration for ensuring availability of effective and safe pesticide for the farmer through "CROP" portal and under taking reliable export inspection and phytosanitary certification work through online "PQMS" portal are other important activities of the Directorate.

Dr. J. P. Singh
 Plant Protection Adviser

Catalogue:

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Highlights

Integrated Pest Management (Efforts of CIPMCs):

- During the period 2.86 lakh ha. of crop area was surveyed and issued 14 advisories for the management of the important pests.
- Conducted 126 Farmers Field School and imparted training on IPM for 3780 farmers and 630 State Agriculture dept. officials.
- 830.75 million biocontrol agents were released across 0.48 lakh ha. area for managing pests.
- Successfully conserved the natural habitat of bioagents in over 2.14 lakh ha.
- 13 two days HRD programmes were conducted where 686 Nos. of AEOs, NGOs, Lead Farmers, Private Entrepreneurs were trained on IPM measures.

Directorate of Plant Protection Quarantine and Storage (DPPQS) was established in the year 1946 on the recommendation of the Wood Head Commission. The commission was appointed by the Government of British India in 1944 to investigate the 1943 Bengal famine. The main objective of the Directorate is to act as an Apex organization for advising the Union and State Governments on all the matters related to Plant Protection.

Directorate is operating through different divisions with specific objectives such as effective implementation of Integrated Pest Management, Plant Quarantine, Pesticide's registration & quality control, Locust Control & Research, etc.

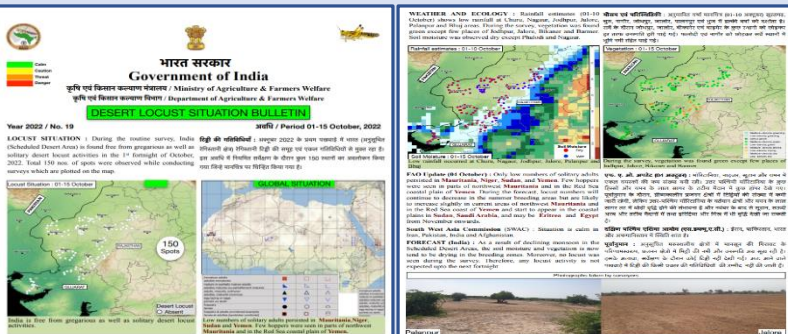
Directorate develops crop & pest specific package of practices, Agro Ecosystem Analysis (AESAs) based Integrated Pest Management, Standard Operating Procedures & National Standards for Phytosanitary Measures (NSPMs), All the SOPs and NSPMs are available to all stakeholders on the Dte.'s website. During Kharif 2022, stood with State Agriculture Departments for management of Jassids, whitefly, thrips & pink bollworm infestation in cotton, southern rice black streaked dwarf virus in rice and cucumber mosaic virus in banana. In order to boost the export, Dte. organized a workshop on establishment of Karnal Bunt Pest Free Area in Bhopal, Madhya Pradesh in coordination with State Agricultural Marketing Board, Government of Madhya Pradesh. Efforts are being made by all sub-offices of the Dte. to intercept exotic pests in the imported shipments to protect Indian biodiversity.

Plant Quarantine (Efforts made by PQ stations):

- Facilitated export of Agricultural commodity and issued 1,21,793 numbers of Phytosanitary Certificates for 103.80 lakh MTs. of various Agricultural commodities.
- Issued Import clearance for 29,083 numbers of Agricultural consignments for 36.50 lakh MTs.
- 375 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 new market access for export of pomegranate arils to Australia and Uzbekistan from India.

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

- Conducted Desert Locust Survey across 53.342 lakh ha. and participated in 03 Indo-Pak Border meetings.
- Published and circulated 06 locust information bulletins during the quarter highlighting current locust situation in India and neighbouring countries.



Central Insecticide Board and Registration Committee:

- The Registration Committee has issued 11002 numbers of Certificate for Registration of pesticides.
- Three new molecules namely, Flumethysulforin, Profluthrin & Quinoxifen were added to the Schedule of Insecticides Act, 1968.

Central Insecticide Laboratory, Regional PTLs and Techno Legal Cell:

- RPTL's tested 546 numbers of samples and 36 of which were declared misbranded.
- The CIL tested 471 samples, out of which 109 were found misbranded.



Visit of DA & FW Dignitaries (IAS interns) to CIL.



Visit of DA & FW vigilance team to Bio-assay Division.

New Appointments:

25 incumbent joined as APPO and SA in the Directorate during the quarter July to September, 2022.



International Participations

IPPC-APPPC Regional Workshop in Incheon, Republic of Korea;

Dr. J.P Singh, Plant Protection Adviser participated in the International Plant Protection Convention (IPPC) Asia Pacific Plant Protection Commission (APPPC) regional workshop held at Incheon, Republic of Korea from 29 August to 02 September 2022. The workshop was held in hybrid mode this year, with 27 participants attending in person and 11 participants virtually, from a total of 13 countries in Asia and the Pacific.



Participants discussed the six draft standards, especially Revision of ISPM 4 (*Requirements for the establishment of pest free areas*), Revision of ISPM 18 (*Guidelines for the use of irradiation as a phytosanitary measure*), and Criteria for evaluation of available information for determining host status of fruit to fruit flies to ISPM 37 (*Determination of host status of Fruit to fruit flies (Tephritidae)*). The Standards Committee representatives provided an outline of the draft standards and participants discussed the draft standards through the Online Comment System. As a result of discussion, they agreed to regional comments to be submitted to the IPPC Secretariat.

APPPC finalized comments for all these six draft standards proposed to be amended by IPPC after detailed discussion. Dr. J.P. Singh presented India's input for amendment.

8th Asia Pacific Seeds Association (APSA) Phytosanitary expert consultation:

Dr. G.K. Bunkar, DD (E) & Sh. Gyaneshwer Banchhor, DD (E), DPPQS, Faridabad attended 8th Asia Pacific Seeds Association (APSA) Phytosanitary expert consultation held at Bangkok, Thailand from 29-30 August, 2022.



Foreign Visits on Bilateral issues



Dr. S.K. Verma, JD (E), Dr. Kanhaiya Lal Gurjar, JD (PP), and Dr. M. M. Khan, AD (PP), visited South Africa between 12th

to 16th September, 2022 for On- site inspection of Avocado farms and facilities for the export of fresh Avocado fruits to India.



Dr. Alamgeer Siddiqui, JD (E), Dr. Sunita Pandey, DD (E), and Dr. Shivaji Haridas Wavare, DD (PP), visited Poland between 13th to 16th September, 2022 for On-site verification of plantations of

Blueberry in Poland for Import of Blueberry from Poland to India.

Dr. Subhash Kumar, JD (WS), Dr. Shaloo Ayri, DD (E), and Dr. Mohan S M, AD (PP), visited Belgium between 19th to 21st September, 2022 for On-site inspection of plantations of blueberries and bell peppers.



Dr. Ranjit Singh, Director (PP), Dr. S. Gnanasambandan, JD (WS), and Dr. Brajesh Mishra, DD (E) visited Canada

between 19th to 23rd September, 2022 for On-site inspection of exports of Canadian Pulses to India under Canada's System approach for Pest management.



The New Unit "Capacity Building Unit" was formed for the purpose of Human Resource Development in the Directorate.

IPPC-Codex unit was formed to look after the International issues.



5th session of the India-Egypt JTC meeting:

Dr Sanjay Arya, Joint Director (PP), attended 5th session of the India-Egypt JTC meeting held at Cairo, Egypt between 25th to 27th July, 2022.

18th Meeting of Persistent Organic Pollutants Review Committee (POPRC-18):

Sh. Avnish Tomar, Deputy Director (Chemistry), attended 18th Meeting of Persistent Organic Pollutants Review Committee (POPRC-18) as observer held at Rome, Italy from 19th to 23rd September, 2022.

18th Meeting of Persistent Organic Pollutants Review Committee:

Dr. Archana Sinha, Joint Director (Chemistry), attended 18th Meeting of Persistent Organic Pollutants Review Committee (POPRC-18) as observer held at Rome, Italy from 26th to 30th September, 2022.



Beware of Fruit Fly in Mango

Presence of black holes on surface gummy exudation ...Why?

Not to worry!! The pest is fruit fly.

The adult female fruit flies inject the fruits and lay eggs in inner tissue of developed fruits.

After hatching, the yellow maggots start feeding on the internal pulp thereby causing rotting of fruits

Gummy exudations on the affected fruits due to internal feeding and digestion of larvae, later the exit holes of larvae get visible on the surface of the affected fruits.

CROP & PQMS portals launched to strengthen Agriculture

Honorable Union Minister of Agriculture and Farmer Welfare Sh. Narendra Singh Tomar had launched two new portals on 18.04.2022 that will help to bring ease of doing business and make the system simple and transparent.

✓ Comprehensive Registration of Pesticides (CROP) and Plant Quarantine Management System (PQMS) portals were launched by Sh. Narendra Singh Tomar during an event held at the Pusa Complex, New Delhi. One portal is developed for the registration of pesticides and another portal for documentation process of export and import of agri-products and plants.

✓ Addressing the event, the honorable minister said the two new portals will facilitate the process of pesticides registration and make documentation process for export-import simple and fair. The government will take required steps for making improvements in the system.

Honorable Union Minister of Agriculture, Sh. Narendra Singh Tomar Releases SOPs for Usage of Drones in The Farming Sector



➤ Honorable Union Agriculture Minister Sh. Narendra Singh Tomar officially released the standard operating procedures (SOPs) for the use of drones in the farm sector, including for spraying pesticides as well as other soil and crop nutrients on 21st December 2021.

➤ He said the government is making continuous efforts to infuse new technologies in agriculture so as to provide sustainable solutions in context of enhancing the productivity as well as efficiency of the agriculture sector.

"The SOP for drone regulation for pesticide application covers important aspects like statutory provisions, flying permissions, area distance restrictions, weight classification, overcrowded areas restriction, drone registration, safety insurance, piloting certification, operation plan, air flight zones, weather conditions, SOPs for pre, post and during operation, emergency handling plan,"



Two Days Capacity Building Training Programme on IPM:



Two days Capacity Building Training programme on IPM

organized at RCIPMC, Nagpur on 26.08.2022 and 27.08.2022 in hybrid mode. Technical officers from Nagpur region attended physically and officers from other region virtually.

Two Days Capacity Building Training Programme on IPM organized by CIPMC Ernakulam:



Two days Capacity Building Training programme on IPM organized at CIPMC, Ernakulam on 16th & 17th of September 2022 in hybrid mode,

wherein 30 technical officers from Bengaluru region participated physically and 54 from other regions virtually.

One Day Workshop for Establishment of Pest Free Area for export promotion of Agricultural commodities:

A one-day Workshop for Establishment of Pest Free Area for export promotion of Agricultural commodities was held at



Atal Bihari Vajpayee Institute of Good Governance & Policy Analysis, Sushasan Bhavan, Bhopal, M.P. on 28th September, 2022.

AFAS India Training



Five days AFAS training conducted by Directorate at RPQS Chennai, New Delhi and Mumbai wherein 41 officers from DPPQS and 32 Pest control operators from accredited pest control agencies were qualified for carrying out fumigation under AFAS India programme.

Two days IPM Orientation Training Programme:

The programme was conducted by CIPMC, Gorakhpur, Uttar Pradesh on 19th & 20th September 2022 in which total 78



participants participated which included State Government employees, pesticide dealers and farmers.

Outreach Programme on Export Potential for Agro Crops, Fruits & Vegetable in Vidarbha:



The programme was organised by APEDA, Mumbai and Agrovision Foundation, Nagpur under Chairmanship of Honorable Road

and Transport Minister Shri. Nitin Gadakari on 17.07.2022 where more than 650 farmers/FPO/Stakeholders were present. In which, RCIPMC, Nagpur delivered presentation on Export potential of Fresh fruits and vegetable from Vidarbha region of Maharashtra.

Workshop for pesticides dealers on Safe and Judicious use of Pesticides and Mass production of bio-control agents:



The event was organized by RCIPMC Nagpur in collaboration with RAMETI, Maharashtra State Agricultural department Nagpur on 21.09.2022 in

which 40 Pesticides dealers from Nagpur were participated.

Workshop for State Agriculture Officer /Official on Safe and Judicious use of Pesticides:



The event was organized by RCIPMC Nagpur in collaboration with RAMETI, Maharashtra State Agricultural department Nagpur on 04.08.2022 and

05.08.2022 in which 30 State Agriculture Officer /Official were present.

Publications

- ✓ Published a paper in Insect Environment on “Association of the elusive Fulgorid bug, *Pyrops delesserti* Guerin-meneville, 1840 (Hemiptera: Fulgoromorpha: Fulgoridae) with Pithraj Tree *Aphanamixis polystachya* (Meliaceae): an observation from Kerala” by Gavas Ragesh, Tom Cherian, Milu Mathew and D.K Nagaraju Vol 25 (2) June (2022.)
- ✓ Ranjith, M., D. K. Nagaraju, R. R. Rachana, R. S. Ramya, Om Prakash Verma and Ravi Prakash. 2022. New host record of *Thrips parvispinus* (Karny) (Thysanoptera: Thripidae) in India. Pest Management in Horticultural Ecosystems, 28(1): 33-37.
- ✓ GavasRagesh, Tom Cherian, Nagaraju, D. K., Milu Mathew and Pushpalatha, P. B. 2022. Some details on the biology of leaf beetle *SastroidesBesucheti* Medvedev occurring on wild nutmeg. Indian Journal of Entomology, online published Ref. No. e21185, DoI.: 10.5958/0974-8172.2021.00111.
- ✓ Gavas Ragesh, Tom Cherian, Milu Mathew and D.K. Nagaraju. 2022. Association of the elusive Fulgorid bug, *Pyrops delesserti* Guérin-Méneville, 1840 (Hemiptera: Fulgoromorpha: Fulgoridae) with pithraj tree *Aphanamixis polystachya* (Meliaceae): an observation from Kerala, Insect Environment, 25 (2): 184-188. DOI: 10.55278/GIRU6255.

A moment of patriotism on celebration of 75 years of Independence

- ✚ ‘Har Ghar Tiranga’ Campaign was organised during 13-15 Aug. 2022 under the aegis of Azadi ka Amrit Mahotsav and National Flag were distributed to every officer/official.
- ✚ On 15th Aug. 2022, the National Flag was hoisted by Hon’ble PPA, Dr. J.P Singh.
- ✚ A campaign to plant tree saplings was organised to spread the awareness for conservation of environment.



Media Coverage

Dr. J. P. Singh, Plant Protection Adviser has delivered talk in DD Kisan on following topics:

1. Pesticide testing laboratories for Quality Control of pesticides in India.
2. Pesticide Registration procedures: Regulatory system in India.



Sh. O. P. Verma, Joint Director (PP) has delivered talk in DD Kisan on following topics

1. Introduction on CIPMC's/IPM
2. Introduction on FFSS
3. Techniques under IPM (Cultural/Mechanical)



Dr. Sunita Pandey, Deputy Director (E) has delivered talk in DD Kisan on following topics

1. Introduction on Bio-control agents.
2. Information on HRD programme under IPM

SUCCESS STORY IN IPM: RICE STUNTING DISEASE IN PUNJAB UTTARAKHAND AND HARYANA

DPPQ&S along with ICAR, State Agriculture Departments has conducted extensive surveys in affected rice fields of above states and created awareness among the farmers on SRBSDV disease and advised them to take necessary action to restrict the further spread



of the disease. Timely diagnosis, Issuance of advisory for management of disease within the time resulted in check in further spread of the disease.

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