

From

The Director Agriculture,
Haryana, Panchkula.

To

All Deputy Directors of Agriculture in the
Haryana State.

Memo No. 53 /TA(Trg.)
Dated, Panchkula the: 19/6/15

Subject: Nomination of Officers for one year PG Diploma in Plant Health Management and Diploma of 6 month Duration.

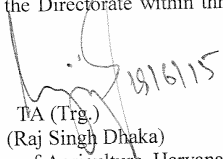
Ref. D.O. F No.10/5th PGDPHM/2015-16/IS dated 13.05.2015.

It is to inform that NIPHM (National Institute of Plant Health Management), Rajender Nagar, Hyderabad (A.P.) is offering a PGDPHM of 12 months duration and Diploma Programmes of 6 month duration in the areas mentioned in 2nd Para of above referred letter which is enclosed herewith for your ready reference whereby it has been requested to nominate atleast two officers from Haryana for PG Diploma in Plant Health Management for which one should be BSc. Agriculture or Horticulture and MSc. (Entomology/ Plant Pathology/Botony /Zoology /Microbiology/Bio- Technology/ Bio-Chemistry/ Chemistry) and atleast two officers for each of 6 month diploma programmes referred in 2nd Para of above said letter, thus totaling 12 Officers from Haryana for which one should be BSc. in Agriculture/ Horticulture/ Pure Science.

The above said Diplomas commences from 3rd August, 2015 at NIPHM, Rajender Nagar, Hyderabad (A.P.). **Last date for submission of nomination as per detail at Annexure 'III' attached herewith is 30.06.2015.** There will be no fee for these Diplomas. Boarding, Lodging is also free. Go through the enclosure for more detail.

Therefore, you are requested to bring it to the notice of all Agriculture officers under your jurisdiction and those who are interested may apply by providing the particulars as per **Annexure 'III'**. Send the nomination of interested candidates to the Directorate within three days positively.

Encl: As above.


TA (Trg.)
(Raj Singh Dhaka)
For Director of Agriculture, Haryana,
Panchkula

CC: PS to DA



Dr.K. SATYAGOPAL IAS
Director General
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 E-mail : dgniphm@nic.in
 Tele-Fax : +91-40-24015346,

National Institute of Plant Health Management

Department of Agriculture & Cooperation
 Ministry of Agriculture
 Government of India

SPEED POST



Rajendranagar,
 Hyderabad- 500030.
 http://niphm.gov.in

D.O.F.No.10/5th PGDPHM/2015-16/IS

Date: 13.05.2015

[Signature]
DHANPAT SINGH, IAS

Addl. CS Agri

Dear *Shri Dhanpat Singh*

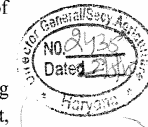
National Institute of Plant Health Management(NIPHM), a premier autonomous institution under the Department of Agriculture & Co-operation, Government of India, organizes training programmes promoting environmentally sustainable Plant Health Management practices in diverse and changing agro-climatic conditions and capacity building in Plant Health Management, Plant Biosecurity and Pesticide Management besides extending policy support to Central and State Governments. Among the various training programmes, NIPHM is offering a Post Graduate Diploma in Plant Health Management (PGDPHM) of 12 months duration to develop committed and competent cadre of agricultural/ horticultural professionals in State Department of Agriculture/ Horticulture.

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 DG
 22/5/15

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 DG Agri
 DG Hort

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 JD (CA)
 22/5/15

In addition to the Post Graduate Diploma programme, NIPHM will also be offering Diploma programmes of six months duration in the areas of 1) Plant Health Management, 2) Plant Biosecurity, 3) Pesticide Management, 4) Vertebrate Pest Management, 5) Plant Health Engineering and 6) Biocontrol Input Production Managements.



The participants of the Post Graduate Diploma and Diploma programmes, depending upon the specialization chosen, will acquire the following skills:

- Competence in Agro ecosystem Analysis based Plant Health Management
- Skills in Ecological Engineering and Rhizosphere Engineering for Pest Management
- Expertise in production of Bio control agents and Quality analysis and Quality Management
- Skills in promotion of Safe and Judicious Use of Pesticides
- Skills in Integrated Rodent Pest Management
- Biosecurity and Incursion Management
- Skills in Phytosanitary Treatments and Molecular Diagnostics of pests and Basic knowledge in Principles of Management

The above skills will enable the extension functionaries to reduce the dependence on chemical pesticides by promoting reliance on Biointensive practices and strengthening Agricultural Biosecurity to address threats of Invasive Alien species.

The PGDPHM and Diploma programmes commences from 3rd August, 2015.

(P.T.O)

I am happy to inform you that NIPHM extends the following facilities to the participants nominated for the PGDPHM and Diploma programmes:

- No course fee for PGDPHM and Diploma programmes.
- Free lodging and boarding for the entire training duration.
- Reimbursement of travelling cost by rail in entitled classor restricted to II-tier ACon production of the original tickets by shortest route from the place of posting to NIPHM, Hyderabad.
- In case of road travel, payment will be restricted to Government run road transport fare or II-tier AC rail fare whichever is less.
- If travel includes both bus and train route, the reimbursement will be made for the respective portion as per the above mentioned restriction.
- Local pick up and drop at Hyderabad will be arranged by NIPHM in case of advance travel intimation. However, the local travel from the place of residence/ office to the nearest Railway/ Bus station has to be made participant on his/ her own and no local travel cost by taxi, auto etc. will be reimbursed.
- The participants who are desirous of availing travel claim from parent department (in case of air travel), non- payment certificate of travel claim at NIPHM will be given.

I request you to kindly issue necessary instructions to the Commissioners of Agriculture/Horticulture to nominate at least two Officers for the Post Graduate Diploma in Plant Health Management and two Officers for each of the Diploma programmes. **The last date for submission of nominations for PGDPHM and Diploma programmes is 30th June, 2015.** The nominations may be sent to Registrar, NIPHM by post or by email to registrarniphm@nic.in. The details of the course content of Post Graduate Diploma, Diploma programmes and Application form are enclosed in Annexure I, II & III respectively.

With regards

Yours Sincerely,



(K. Satyagopal)

Encl: Annexure I, II & III.

To

Mr. Dhanpant Singh, IAS
Additional Chief Secretary to Govt of Haryana,
Room No.606, Sixth Floor,
New Secretariat Building, Sector-17,
Chandigarh-160017

PGDPHM

The Post Graduate Diploma in Plant Health Management (PGDPHM) has been designed to expose the participants to plant health management, the science and practice of understanding and overcoming the biotic and abiotic factors that limit plants from achieving their full genetic potential as crops. The course also prepares the participants to address the emerging challenges in Biosecurity,

Aim of the Course

Develop a highly committed and competent cadre of agricultural professionals to promote environmentally sustainable plant health and biosecurity management in India and her neighbourhood.

Objectives/Outcome

On completion of the course, participants will develop

- skills to organize Farmer Field Schools effectively to empower the farmers to take informed decisions by adopting discovery based learning
- competence in Agro-ecosystem based analysis which relies on experiential learning so as to promote environmentally sustainable plant health management.
- skills in Ecological Engineering and Rhizosphere Engineering for pest management.
- knowledge to promote safe and judicious use of pesticides through adoption of appropriate application techniques, besides expertise in pesticide formulation / residue analysis.
- expertise in situation analysis of vertebrate pest problem, with special focus on rodents, in agricultural fields & commodity storage and adoption of ethological based management.
- understanding of the issues involved in bio-security and incursion management in the context of globalization, with exposure to Sanitary and Phytosanitary issues.
- Mass multiplication of biocontrol agents including microbial biopesticides
- Skill in Quality Assessment and Quality Management of microbial biopesticides.

Course Design & Framework

The programme will consist of four major components

1. **Participatory learning in classroom and laboratory.**
2. **Field visits for enhancing observational skills.**
3. **Agro-ecosystem based analysis through Farmers Field Schools (FFS)**
4. **Specialization in one of the following select areas : (a) Plant Bio security, (b) Pesticide Management, (c) Vertebrate and Structural Pest Management, (d) Plant Health Engineering, (e) Production Protocol of Bioagents and Quality Assessment & Quality Management of Microbial Biopesticides**

(a) Plant Biosecurity : Participants specializing in Plant Biosecurity will acquire knowledge in Plant Quarantine procedures, Regulations, International and National standards for Phytosanitary measures (ISPM & NSPM), and competency in Pest risk analysis, Pest Surveillance, Phyto Sanitary Treatments, Pest diagnostics and Pest Incursion Management.

(b) Pesticide Management : Participants specializing in Pesticide Management will be exposed to the complete life cycle management of pesticide encompassing issues involved in pesticide manufacture, import, export, transport, storage, use, application, post use surveillance and disposal. The regulatory provisions of licensing, inspection, sampling, analysis and further

proceeding are also dealt in this course. The participants will acquire knowledge in principles of operation of sophisticated equipments and will undergo mandatory training required for analysis in Pesticide Formulation and specialized training in Pesticide Residue analysis by using GLC, HPLC, LC-MS-MS, GC-MS-MS etc.

(c) Vertebrate and Structural Pest Management : Participants specializing in Vertebrate & Structural Pest Management will develop competency in pest diagnostics, pest surveillance and acquire skills for integrated management of vertebrate pests with specific focus on Rodents and Structural Pests viz. termites, store grain pests, mosquitoes.etc. The participants will also undertake a certificate course in Urban Integrated Pest Management as part of the Course.

(d) Plant Health Engineering : Participants specializing in Plant Health Engineering will acquire requisite skills and knowledge in the area of pesticide application technology, selection, calibration and maintenance of related equipments and nozzles that will enable them to promote safe, judicious and efficient use of pesticides through adoption of appropriate engineering systems.

(e) Production Protocol of Bioagents and Quality Assessment & Quality Management of Microbial Biopesticides: Participants specializing in this area will develop skills and competency in production of various Biocontrol Agents such as Fungi, Bacteria, Virus, Insects, and Mites that can be commercially exploited for pest management and will be able to produce commercial formulations of Microbial Biopesticides and develop analytical skills in quality control of Biopesticides.

Programme Duration : One year: August,2015- July2016(Semester system – 30 credits)

Eligibility:B.Sc.(Agri. or Hort.),M.Sc.(Entomology/ Plant Pathology/ Botany/ Zoology/ Microbiology/ Biotechnology/ Biochemistry / Chemistry /Biotechnology/Biochemistry/ Environmental Chemistry); B.Sc in Agriculture and Rural Development;B.Tech.(Agricultural Engineering).

Last date for submission of application forms:30.06.2015.

Course fee: NIL

Lodging and boarding charges: NIL

Accommodation: Available within the campus.

Travelling expenses:Reimbursement by NIPHM in entitled class but restricted toII-tier AC rail fare on production of the original tickets.

Contact Address: Registrar,

National Institute of Plant Health Management(NIPHM),

Rajendranagar, Hyderabad - 500030

Telephone:+91-40-24013346Tele-Fax: 9140-24015346

e-mail: registrarniphm@nic.in, niphm@.nic.in

Website: <http://niphm.gov.in>

Annexure - II

Diploma in Plant Health Management

Plant Health is dependent on several factors such as soil health, nutrient management, abiotic and biotic stresses and the ecological balance between pest and beneficial insects, which varies from one agro-climatic region to another. In order to reduce crop losses due to pests, expertise is required in plant health management - the science and practice of understanding and overcoming biotic and abiotic factors that limit plants from achieving their full genetic potential as crops.

The Diploma in PHM aims to impart specialised skills, with hands on training in:

- Soil, nutrient and weed management
- Agro-ecosystem analysis based plant health management
- Ecological engineering for pest management.
- Rodent pest management
- Pesticide application technologies for ensuring safe and judicious use of pesticides
- Mass production of biocontrol agents & assessment of quality of microbial biopesticides,

This course is unique in the sense that it encompasses all the aspects of Plant Health Management in a capsule form.

Diploma in Plant Biosecurity

Plant biosecurity is an emerging area for the professionals involved in Agriculture, Horticulture, Forestry, Environment and in international trade. The constant increase in international trade of agricultural commodities has paved way for long distance movement of plant pests from their place of origin. The pests in the new ecosystems become invasive and cause extensive damage to the native flora and fauna. The threats posed by exotic and invasive species through international trade has resulted in efforts for harmonization of plant protection measures at global level through the efforts of international plant protection convention (IPPC). The diploma in plant biosecurity will enable the student to get acquainted with

- Past Pest incursion and its consequences
- Phytosanitary rules, regulations, agreements and conventions
- Pest Risk Analysis
- quarantine pests / regulated pests of concern to India
- Emergency Preparedness to combat introduced pests
- Promote safe trade by adopting systems approach
- Identification of pest free areas or areas of low pest prevalence to promote safe trade
- Phytosanitary measures.
- Export market access.

Diploma in Pesticide Management

A diploma programme of six months duration in Pesticide Management, covering the aspects of life cycle management of pesticides and related subjects is mooted for the Extension Officers. The objectives of the Diploma Programme is to develop expertise in Pesticide Formulation Analysis by classical volumetric methods & sophisticated instrumental methods of analysis, expertise in Pesticide Residue Analysis from various matrix of agricultural produce and environmental samples and expertise in Instrumental Analysis and Laboratory Management.

The course comprises the following topics/subjects in brief;

- Life cycle management of pesticides (cradle to grave),
- The legislation
- International Code of Conduct
- Registration procedures
- Introduction and practices of Plant Health Management
- Pesticide Application Technology
- Quality control
- Monitoring of Residues
- Laboratory Organisation and Management
- Agricultural economics
- Export and Import regulations for Pesticides
- The Marketing practices and others

Diploma in Vertebrate Pest Management and Structural Pest Management

Vertebrate pests constituting birds, wild animals and rodents cause damage to major crops at farm level and in storage in India. Among the various vertebrate pests, rodents are one of the major production constraints in agriculture and allied sectors apart from transmitting several diseases to the humans and live stock. Cereal crops and commercial crops like sugarcane, cocoa including oilseed crops like groundnut, coconut, oil palm etc. are most often damaged by rodents causing severe damage upto 20-30%. In addition to rodent pests, other vertebrate pests like wild boar, blue bulls and birds also pose a major challenge to crop production.

The course gives exposures on major vertebrate pests, especially rodents and principles of their integrated management. The course covers; Economic importance of vertebrate pests in agriculture, horticulture, public health, veterinary and storage sectors, Taxonomy, morphology and anatomy, behavioural adaptability and reproductive plasticity, preventive and curative methods of management of different vertebrate pests in particular the rodents.

Increased urbanization in the country had a tremendous pressure on civic infra structure systems including sewerage, drainage, solid waste management and consequently public health. The public health problems are compounded due to increasing interface between human and pest populations, viz., rodents, mosquitoes, flies etc. Considering its importance, Urban Integrated Pest Management was given major focus and the course provides an

opportunity to develop skills in pest management operations and prepares the participants for emergency preparedness to prevent the outbreak of communicable zoonotic diseases.

The course deals with biology and bionomics of major urban pests like mosquitoes, cockroaches, bedbugs, flies, termites and rodents etc.. Exposures were also given on integrated bird, weed management, pest management chemicals and their safe and judicious application in urban environs.

Diploma in Plant Health Engineering

The focus of the Diploma in Plant Health Engineering is to impart skills on 'Pesticide Application Technology', 'Safe & Judicious use of pesticides' and Post Harvest Management of Food Grains'. The course is practical oriented and covers importance of proper techniques of application, distribution and coverage, storage and irrigation management. It also highlights the principles of High Volume, Low Volume, and Ultra Low Volume Spraying techniques, as well as the salient features of the appliances and Spray Nozzles, their classification, selection and calibration. Operational aspects of Dusters/ Granule Applicators, Power Sources used in Plant Protection Machines, pumps & engines, maintenance procedures, etc are also covered. Important issues regarding Weed and Rodent control techniques, remote sensing and GIS applications in Agriculture, etc are also discussed by specialists in these areas.

The participants of this course develop skills in guiding the farmers in appropriate choice of pesticide application technology, storage methods, etc to be adopted to successfully manage the prevailing problems in their fields in scientific, safe & judicious manner.

Diploma in "Production of Biocontrol Agents & Quality Analysis and Quality Management of Biopesticides"

There is a growing realization that intensive agriculture practices are not sustainable and that there is a need for exploring various other options to reduce the load of chemical pesticides. The role of predators, parasitoids and biopesticides in managing the pest is gaining acceptance at the field level. Besides the supply of quality biopesticides are more important for achieving the desired level of success and acceptance among the farmers.

The Diploma Course on "Production Protocol for Bioagents & Biopesticides and Quality Assessment and Quality Management Microbial Biopesticides" will enhance the ability of the participants to mass multiply parasitoids and predators which are being widely used as biocontrol agents for the management of pests. The skill on production of microbial biopesticides viz., entomopathogenic fungi, bacteria and viruses will be imparted to the candidates, besides the production of entomopathogenic nematodes. They also will be imparted the skills on how to produce the biocontrol agents / biopesticides on the farm i.e. by using locally available low cost materials. In addition to the production the participants will be given the knowledge and skill to assess the quality of microbial biopesticides. They will also be learning the techniques for making bioformulations using different locally available materials.

NATIONAL INSTITUTION OF PLANT HEALTH MANAGEMENT
APPLICATION FORM FOR ADMISSION POST GRADUATE DIPLOMA IN PLANT
HEALTH MANAGEMENT — 2015-16

Name (in capital letter)
Gender : Male / Female Photo
Date of Birth :
Category : General / OBC/SC/ST/Physically
Present Address : Challenged

Permanent Address

Email id
Contact Number(mobile)
Educational Qualifications
Qualification University 1 Marks / Grade ' Division Year of Passing
Graduate
Post Graduate

Rank / Awards / Achievements any

DECLARATION

I hereby declare that all the information furnished above by me are true and correct to the best of my knowledge and belief. I agree to abide by all codes and conduct and rules as may be framed from time to time by the institute authorities for smooth conduct of the programme.

Date:
Place:

(Signature of the Applicant)

Instruction for applicants:
Filled in application in all aspects should reach the Registrar of the Institute in prescribed time either by Post! Email (registrarniphm@nic.in) before 30.6.2015.