

## Minutes of the 4<sup>th</sup> Board of Studies of Plant Protection

Date 14.03.2014 Venue: Seminar Hall, NMCA

### Technical session: I

Chairman: Dr. A.R. Pathak, Hon. VC	Co-Chairman: Dr. A.N. Sabalpara, DR & Dean PGS Rapaorteur: Dr. Lalit V. Ghetiya
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The meeting started with the welcome of Hon Vice Chancellor **Dr. A.R. Pathak**, Director of Research & Dean PGS **Dr. A.N. Sabalpara**, **Dr. K.G. Patel** (Principal, COA , Bharuch), **Dr. Z.P. Patel** (Principal, COA, Waghai) and Chairman Board of Studies Plant Protection **Dr. G.G. Radadia**. Dr. A.N. Sabalpara suggested students and scientists to take the experiments on the new aspects of plant protection. They should work on basic aspects of insects and plant pathogens. Nanotechnology and biotechnology should also be incorporated into the research work of P.G. Students. There is a need of IPDM in different crops and also need to develop complete organic plant protection schedules in economic crops. The crop scientists should be well aware about the status of pests and diseases in their respective crops as well as new pests and diseases. Further, P.G. Guides must take care to submit the synopsis of M.Sc. (Ag.) latest by the end of the 2<sup>nd</sup> semester and synopsis of doctoral degree by the end of 3<sup>rd</sup> semester. It is also very essential that each P.G. Guide must visit the field trials at least three times and send the status report to HOD and the Dean through email. **All P.G. guides must present the thesis work in front of advisory committee and other faculty and PG students before the submission of *Kaccha* bound thesis.** The board of studies meeting should be conducted in the first semester of the students. Dr. A.R. Pathak, Hon'ble V.C. emphasized to be diverse and break the monotony of the work during his presidential speech. He encouraged students to publish their research within time in reputed journals. Doctoral student should more concentrate on the new horizons of their field like molecular aspects and work according to the present and future need of the society. Protected cultivation is one of the emerging field and the pest and disease status and package and practices to holistic management of them in the protected cultivation should be devised. The work on climate change and its impact on crop pests and diseases should also be initiated by the faculty of plant protection. He further emphasized to use the modern information technology to be abreast with the recent knowhow and identify new areas and programmes in their field. University is recognized and accredited on the basis of their meritorious students and number of UG and PG students passing various national competitive examinations. Therefore, faculty must preset and document the information about the same during the meeting. Dr. Hemant Sharma, Associate Professor, GABI, Surat has been advised by Hon Vice Chancellor to work on the cotton Pathology and take care of the ongoing experiments of cotton pathology at Surat.

A total 21 M.Sc. and 5 Ph D research programme were presented by P.G. Students from both the disciplines. The meeting was ended with the vote of thanks by Dr. C.U. Shinde.

Date- 02/04/2014

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(G.G. Radadia)

Convener and Professor and Head

Department of Entomology,

N.M. College of Agriculture, NAU, Navsari

ACN/Ento/ IV BOS PP/ 02 /2014,

Date: 02/04/2014

Copy fwrt:-

- 1-The PS, Hon. VC, NAU, Navsari for information
2. The Director of Research & Dean PGS, NAU, Navsari for information
3. Principal, NMCA, Navsari/ACHF, Navsari/ COA, Bharuch/ COA, Waghai
4. All the concern P.G. Teachers through email

## Technical session: II

Chairman: Dr. K.G. Patel	Co-Chairman: Dr. V.A. Solanki
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Rapaporteurs: Dr. Abhishek Shukla & Dr. Lalit Mahatma

Sr. No.	Name of the student	Name of Major Guide	Name of Minor Guide	Title of the research work	Remarks
<b>Ph.D. (Agril. Entomology)</b>					
1	Kavita M. Beeraganni	Dr. G.G. Radadia	Dr. V. A. Solanki	Survey and morphometrical studies of syrphid fly (Syrphidae: Diptera)	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Record Ancillary observation on hyperparasite of immature stages of syrphid fly</li> </ul>
2	Mandape Sanchit Shreekant	Dr. Abhishek Shukla	Dr. Lalit Mahatma	Biodiversity of predatory mites of family phytoseiidae (Acari)	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Diversity of Phytoseiid predators during different season and on different source</li> </ul>
<b>M.Sc. (Agril. Entomology)</b>					
1	Soroja Tamang	Dr. G.G. Radadia	Dr. Priya John	Biology and management of drug store beetle <i>Stegobium paniceum</i> (L.) on turmeric powder	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Reframed the title</li> </ul>
2	Chavadhari Rajendrabhai L.	Dr. P.D. Ghoghari	Dr. K. B. Rakholiya	Study on the seasonal incidence of rice stem borer, <i>Scirpophaga</i> spp. and its management	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Committee of Dr. P.D. Goghari, Dr. J.J. Pastagia, Dr. H.V. Pandya and Dr. G.G. Radadia is made to recast the experiment and submit report.</li> </ul>
3	Bhojani Dhairya V.	Dr. H.R. Desai	Dr. D. M. Pathak	Feeding potential of <i>Chrysoperla zastrowi sillemi</i> (Esben-Peterson) on aphid and mealy bug and their relative susceptibility to pesticides used in <i>Bt</i> cotton	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Check the susceptibility on larva and adult</li> </ul>
4	Kavad Mahesh B.	Dr. J.J. Patel	Dr. D. M. Pathak	Population dynamics and management of mite ( <i>Tetranychus urticae</i> Koch) in brinjal ( <i>Solanum melongena</i> L.)	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Use Pant bahar (<i>Jamli</i>) variety for experiments also add it in varietal screening trials.</li> <li>• Sowing should be done in ridge and</li> </ul>

					<p>furrow field</p> <ul style="list-style-type: none"> <li>• Check available nitrogen in the soil before planting</li> <li>• Local collection of Mandvi may be taken for the screening, if available</li> </ul>
5	Patel Aditi D.	Dr. L.V. Ghetiya	Dr. Priya John	Bionomics, population dynamics and management of mite <i>Tetranychus urticae</i> Koch on marigold ( <i>Tegetes</i> spp.)	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Remove Dimethote and Wettable Sulphur</li> <li>• Efficacy should be tested in pots</li> <li>• Plot size in population dynamics should be at least 20x20 m.</li> </ul>
6	Khambhu Chirag V.	Dr. K.D. Bisane	Mr. B. M. Naik	Seasonal abundance of important pest of sapota and evaluation of insecticides against seed borer	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• individual as well as commercial combination of insecticides should be used</li> <li>• Spray should be repeated at 20 days after first spray</li> </ul>
7	Hadiya Girishkumar D.	Dr. G.B. Kalaria	Dr. K. B. Rakholiya	Population dynamics of insect pests complex of chilli ( <i>Capsicum annum</i> L) and non chemical control of thrips ( <i>Scirtothrips dorsalis</i> Hood)	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Take 5 replications in efficacy experiment</li> <li>• Mention the cfu of entomopathogenic fungi and its manufacturer</li> </ul>
8	Jalondhara Rasik M.	Dr. D.R. Patel	Dr. D. M. Pathak	Succession of insect pests and management of pod boring insects of pigeonpea ( <i>Cajanus cajan</i> (L.) Mill	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Succession observations should be clearly distinguished from the abundance and taken accordingly</li> </ul>
9	Zapadiya Kalpeshkumar D	Dr. J. J. Pastagiya	Dr. K. B. Rakholiya	Augmentation of pollination by bee ( <i>Apis cerana</i> F.) and its effect on yield of watermelon	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Take 3 treatments and 8 repetitions for CRD</li> <li>• Pool three plants in one replication</li> <li>• Take number of fruit drop</li> </ul>
10	Panakj Prakash Pokle	Dr. Abhishek Skukla	Dr. Lalit Mahatma	Bioecology and chemical control of phytophagous mites of tomato ( <i>Lycopersicon esculentum</i> L.) under polyhouse	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Take one more treatment of triazophos in chemical control treatment</li> <li>• Residual analysis should be done, if possible</li> </ul>

<b>Ph.D. (Horticultural Entomology)</b>					
1	Patel Shaileshkumar D.	Dr. H.V. Pandya	Dr. P. R. Patel	Pest succession, varietal screening and management of bud boring insects in sapota	<p><b>Accepted with following suggestions</b></p> <ul style="list-style-type: none"> <li>• In experiment 3 take “Student-t test”</li> <li>• Replace Nimbicin with Azadirachtin 1500 ppm</li> <li>• Take screening trial at Gandevi and take observations fortnightly</li> </ul>
<b>M.Sc. (Horticultural Entomology)</b>					
1	Saiyad M.M.	Dr. H.V. Pandya	Dr. P. R. Patel	Seasonal abundance, varietal screening and chemical control of gladiolus thrips ( <i>Thrips simplex</i> )	<p><b>Accepted with following suggestions</b></p> <ul style="list-style-type: none"> <li>• Write authority of thrips in title</li> <li>• Take only one insect i.e. thrips</li> <li>• Use RBD design in II and III experiments</li> <li>• Use acetamiprid instead to thiamethoxam</li> <li>• Add one aspect as impact of flower color on incidence of thrips</li> </ul>
2	Dharmesh G. Patel	Dr. S.M. Patel	Dr. P. R. Patel	Biology and chemical control of thrips attacking ficus ( <i>Ficus benjamina</i> )	<p><b>Accepted with following suggestions</b></p> <ul style="list-style-type: none"> <li>• Mention the significance of pest in the background information</li> <li>• Add time of application as appearance of pest</li> <li>• Take the chemicals as have been taken by Saiyad M.M.</li> <li>• Spray the insecticides at the time of peak incidence of thrips</li> <li>• Identification of insect from Zoological Survey of India (ZSI) before start the experiments.</li> </ul>
3	Pritesh Patel	Dr. H.V. Pandya	Dr. P. R. Patel	Seasonal abundance, varietal screening and chemical control of aphid ( <i>Aphis fabae</i> ) infesting gerbera	<p><b>Accepted with following suggestions</b></p> <ul style="list-style-type: none"> <li>• Mention the significance of pest in the background information</li> <li>• Write authority of scientific name in the title</li> <li>• Add one aspect as impact of flower color on incidence of pests</li> <li>• Add flonicazin 50 WG instead of</li> </ul>

					<p>dimethoate</p> <ul style="list-style-type: none"> <li>• Design should be CRD</li> <li>• Spray insecticides immediately after the emergence of pest</li> </ul>
<b>Ph.D. (Plant Pathology)</b>					
1	Jitendar Kumar Sharma	Dr. V.A. Solanki	Dr. L. V. Ghetiya	Occurrence, epidemiology and management of powdery mildew of okra ( <i>Abelmoschus esculentus</i> Moench) under south Gujarat conditions	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Take one cluster Navsari for kharif, Dolvan and Bardoli for the survey in summer season</li> <li>• Use 0-9 scale (Uniform)</li> <li>• Observe time of initiation of disease in different varieties</li> <li>• Take one recent variety from IIHR, Bangalore</li> <li>• Add popular hybrids of private company</li> <li>• Record variation in the sexual stage of fungi</li> <li>• Identification of fungi from the recognized Institute</li> <li>• Delete sugar and protein analysis</li> <li>• Analyze biochemical parameters at vegetative and flowering stage</li> <li>• Add new molecule of fungicides with different mode of action</li> <li>• Add emulsifying agent in the oil before spray</li> </ul>
2	Shinde Manisha Shankar	Dr. K.B. Rakholiya	Dr. L. V. Ghetiya	Epidemiology and management of damping-off of tomato ( <i>Solanum esculentum</i> L.)	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Observe post emergence damping off only during the survey</li> </ul>
<b>M.Sc. (Plant Pathology)</b>					
1	Chhabhiya Dipakkumar R.	Dr. Priya John	Dr. Abhishek Shukla	Characterization of <i>Trichoderma harzianum</i> Rifai based on physiological and biochemical features	<p><b><u>Accepted with following suggestions</u></b></p> <ul style="list-style-type: none"> <li>• Use specific media for the Trichoderma in the physiological studies</li> </ul>

2	Patel Mitalkumari I.	Dr. K.B. Rakholiya	Dr. Abhishek Shukla	Symptomatology, biochemical and management of stem rot of brinjal caused by <i>Sclerotium rolfsii</i> Sacc	<b><u>Accepted</u></b>
3	Patel Jaymin R.	Dr. J.R. Pandya	Dr. L.V. Ghetiya	Diagnosis and evaluation of multiple diseases of tomato ( <i>Solanum lycopersicum</i> L.)	<b><u>Accepted</u></b>
4	Chaudhari Ankit K.	Dr.Hemant Sharma	Dr. G. B. Kalariya	Pathogenic potential and management of seed mycoflora of pigeonpea ( <i>Cajanus cajan</i> L.)	<b><u>Accepted with following suggestions</u></b> <ul style="list-style-type: none"> <li>• Add Saaf (carbendazim+mancozeb) as one of the treatment</li> </ul>
5	Pankaj Singh Kushawah	Dr. K.B. Rakholiya	Dr. G. B. Kalariya	Symptomatology and management of cluster bean wilt ( <i>Fusarium</i> sp.)	<b><u>Accepted</u></b>
6	Jehani Muljibhai D.	Dr. D.M. Pathak	Dr. D.R. Patel	Epidemiology and management of pigeonpea stem canker caused by <i>Macrophomina phaseolina</i> (Tassi) Goid	<b><u>Accepted with following suggestions</u></b> <ul style="list-style-type: none"> <li>• Delete objective “find out the cause of disease”</li> <li>• Mention time of application of fungicides</li> <li>• Use the sterilized and un sterilized phytoextract <i>in vitro</i> study</li> <li>• Take best two treatments found in-<i>in vitro</i> for the pot experiment</li> </ul>
<b><u>M.Sc (Hort. Pathology)</u></b>					
1	Patel Vilaskumar	Dr. P.R. Patel	Dr. H. V. Pandya	Screening of phylloplane and endophytic microflora of chillies against <i>Colletotrichum</i> spp.	<b><u>Accepted with following suggestions</u></b> <ul style="list-style-type: none"> <li>• Delete biochemical studies</li> </ul>
2	Desai Bhumi R.	Dr. P.R. Patel	Dr. H. V. Pandya	Diversity analysis and management of <i>Colletotrichum</i> sp. from Drecina	<b><u>Accepted</u></b>