



**AIC Report**

**Dr. Ata ul Mohsin**

**March 20, 2014**

**Department of Entomology**  
**University of Haripur**

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## **1. Executive Summary**

University of Haripur, Haripur was visited on March 20, 2014. The inspection team was formally briefed by the Management of Faculty of Sciences and Dept. of Agriculture. Later, the team was briefed by the worthy Vice Chancellor Dr. Naseer Ali Khan in his office. The team visited the Central labs and the4 Central Library and later the detailed inspection of the department (Entomology Section) was initiated. Presently, a total of three faculty members (two full-time and one part-time) are taking care of the Entomology section educational and research activities. Faculty members has been provided separate working place but still it is not sufficient to undertake all activities in a proper and effective way. The existing infrastructure of the Department of Agriculture however needs further improvement and up-gradation to cope with the needs of well trained highly qualified faculty members for carrying out teaching and research activities. The HoD of Entomology Section is a PhD professional and well competent in carrying out all required activities. Teacher student ratio is very high (1:20), which meets the standard criteria. Standard and approved scheme of studies by the HEC are being followed and practiced. Lecture rooms and laboratory space was grossly found adequate to cater the needs of graduate program. Teachers and students are satisfied with working environment and academic program and extra-curricular activities. Enough study/field trips are arranged to enhance exposure and experience of the students and teachers.

Central Library contains sufficient text and reference books including some journals. Computer/internet facility is adequate for students and faculty members. Well equipped Class rooms were found sufficient for the on-going sessions and degree classes while the Laboratory at Section/department level is not present (though central lab is present at university level) which is a big gap and should be addressed on urgent basis. The need of agriculture farm for research and practical purposes is managed at campus and out of campus also. Transport facility for students and teachers is available for commuting to and from the farm. This facility also suffices the needs of visits and pick and drop service of the students and staff.

It is recommended that at present the accreditation may be approved and the administration of University of Haripur may be asked to address the gaps related to HRM and Infrastructure (especially departmental library and laboratories for research and practical classes).

## **2. Introduction of the University**

The existing premises of University of Haripur (spread over an area of 236 Kanals) were once a Rosin and Turpentine factory established by the Forest Development Corporation (FDC) which on Wednesday, September 9, 1953, that the then Governor General of Pakistan laid its foundation stone. The need of a university campus in Haripur was seriously felt in order to facilitate the deserving students who have accessibility

problems to Mansehra campus. The choice of this Rosin and Turpentine factory among others was found the most suitable one for the establishment of Haripur campus. The idea was picked by the then Vice Chancellor, Hazara University, to open a satellite campus of Hazara University in Haripur to provide higher educational access to the people of Haripur and its adjoining areas at their door step. The idea was supported by the then Governor and Environment Minister of Khyber Pakhtunkhwa. On March 8, 2008, the factory was formally handed over to Hazara University for the establishment of its Haripur Campus and on March 30, 2008, the Campus was inaugurated by the Chief Minister.

Hazara University played pivotal role in equipping people with necessary knowledge and skills, however being at approximately 100 km from Haripur, the people of District Haripur, HassanAbdal, Chaj,Wah, Taxila, Mardan and Swabi had low access to University particularly the female students. The Department of agricultural sciences was established in April, 2008 under the umbrella of Faculty of Sciences at Haripur Campus of Hazara University and classes of B.Sc (Hons) Entomology major were started in 2010. University Act of University of Haripur was approved in July, 2012.

### **3. Criteria wise Analysis**

#### **Criteria I: Strength and Quality of Faculty**

The Faculty members of the Entomology Section, Deptt. of Agricultural Sciences, University of Haripur are capable of imparting quality teaching and conducting research of good quality. Teachers are young and highly qualified. They are able to teach and train the students to face today's challenges in Agri sector. Presently, there are three faculty members (one Assistant Professor and two lecturers) performing their duties diligently. Among lecturers, one is full time faculty and the other as part-time. The prevailing student: teacher ratio is 1:20. The senior faculty member is Ph.D. while remaining two are M.Sc (Hons). Range of experience of faculty members vary from 2-16 years. Department is running graduate and post graduate programs. Faculty members of the department are also rendering their services to the farming community. As there is only one Assistant Professor and two Lecturers working in the department, therefore there is a dire need of permanent/regular appointment of Assistant Professors, Associate Professors and Professor to justify the work load and to fulfill the HEC criteria. At present Assistant Professor is being given 12 credit hours and Lecturer 15 credit hours to teach different courses. The Faculty is using multimedia for teaching and evaluations techniques such as quizzes, assignments, projects, seminars plus presentations. Dean and Principal are there for monitoring the existing system in addition to the chairperson. Participations of students in

seminars and conferences are limited. There is one on-going research project (small scale project with its total budget = 0.15 million Rupees) and two others are underway (amounting 0.70 Million rupees) to different donors. Funds and facilities are not available for participation of students in seminars/conferences.

Faculty research publications in national and international journals are satisfactory in number especially during last three years (Total No.12). Contribution of faculty members especially the HoD Entomology towards publication of research papers, books, book chapters and proceedings is satisfactory though need further improvement. Faculty perception about degree program is clear. The student teacher ratio in general classes is 1:20.

**Criteria II: Curriculum Design and Development**

Especially the Faculty members and generally the management body at University of Haripur, is focusing on improvement of curricula and contributing more to the teaching of 4 years B.Sc (Hons) degree program. The curriculum has been revised frequently by the Department/Faculty as well as HEC. Curriculum is well defined with clear objectives. Still, there is continuous revision of the curricula for B.Sc (Hons) text books and reference books are available. However, there is no library of the Department but almost 40-50 books are available there. Facility of library with good collection of books is available at main Library for the whole university. The budget for books is available for main library of the Faculty and not for the department. There is urgent need for separate departmental budget for books plus research journals. Budget given for the research and other purposes is available from a project and need availability in a permanent and continuous manner. A separate budget for books and journals is suggested to provide better learning opportunities. Credit hours and contact hours are laborious for the existing faculty; addition of new lecturer will definitely help adjusting the credit hours burden. Course completion is a regular and encouraging process of the department.

All students of this department are well informed about course program, admission policy, enrolment, withdrawal and course break up. Course files verified by the AIC are maintained but need some improvement that has been pointed out by the committee. QEC of the university is working in an effective way and all periodical assessments and evaluations are being done on regular basis.

**Criteria III: Infrastructure and Learning Resources**

Two separate classrooms (well equipped with multimedia) for Entomology (total 8 classrooms (each with a capacity of 35-40 students) for the Department of Agricultural Sciences) are available. The faculty office for Entomology teachers is fully accessed with internet and digital library facility. There was no separate laboratory facility of the department, but one central laboratory with qualified staff (lab incharge and lab attendants) is existed and operational. There is a dire need of well equipped departmental laboratories to cater research needs of graduate and post-graduate students. Equipment available in central lab is insufficient and need more budget in this regard. The share of the department, in annual budget of the Faculty for books, chemicals and glassware is insufficient. Practical work and write up of practical note books is found satisfactory which needs to be improved.

**Criteria IV: Students Support and Progression:**

The current semester total enrollment in the Department of Agricultural Sciences is 45 students. Presently, there are only 2 students in 5<sup>th</sup> semester and 4 in 6<sup>th</sup> semester, who opted/get enrolled in Entomology major subject. Availability of academics guidance/counseling to students is satisfactory and needs further improvement.

A limited no. of scholarship to the students are available on merit and need basis however, these are insufficient. Students are getting scholarships from different sources or donor agencies (Merit and USAID). Beneficiaries of merit scholarships out of 102 students are 8 in number similarly beneficiaries of need-based scholarships out of 102 students are still in process. Hostel accommodation for boys is not available. Transport facility is adequate with 2 coasters (32 seats) and 4 buses (55 seats) but limited sports facilities are available. There is a good atmosphere for co-curricular activities. Student attendance is being taken regularly and there is restriction for presence of 75 % attendance. Record of attendance has been verified by the AIC as course files. Medical and transport facilities are adequate. However, there is need in improvement of computing facilities, research funds, and internship allowances.

## 4. Participatory SWOT Analysis:

### STRENGTHS

- Well equipped classrooms with all facilities.
- Students' trend towards Agriculture is promising.
- Faculty and students seem satisfied with teaching/learning environment, transport and hostel facilities.
- Good linkages and liaison with other organizations/institutions
- Field research being carried out by a faculty member (HoD) on area specific crop/s.

### WEAKNESS

- Lack of highly qualified Faculty members
- Shortage of permanent and senior/experienced Faculty members as Professor and Associate Professors
- Non-availability of separate Ento.. Laboratory and research area of the Department
- More access to the international Journal is needed.
- Department has not sufficient PhD faculty (only one PhD faculty member)
- Shortage in supporting staff of the laboratories
- Limited infra structure as, Teacher's offices, seminar room, staff rooms.
- Lack of helping literature (periodicals and journals) for faculty and students
- Non-availability of departmental library.

## 5. ACTIONABLE RECOMENDATIONS

- The department was established five years earlier and need financial grants for strengthening.
- As there are limited research facilities especially scientific equipments, instruments and chemical, therefore, special funds may be arranged to strengthen the facilities.
- Teaching staff is not enough and experienced. There is need to provide fulltime two Associate Professors and one Professor.
- There is acute shortage of experienced supporting staff, especially laboratory staff (Lab Assistant and Lab Attendant). The department may be provided with enough trained laboratory staff.
- There is need of establishment of seminar room, staff rooms and Departmental library with computer/internet facilities
- There is need for installation of Green Houses and field research area.
- Faculty development program should be initiated for new faculty members
- Need of more opportunities, scholarships and financial aids.
- Regular revision of Post Graduate Curricula
- Provision of research grant on the basis of postgraduate students.

## 6. Final Recommendation

- The team unanimously recommend that BSc (Hons) Agri. Entomology degree program at Haripur University, Haripur may be accredited.
- It is also recommended that accreditation of Post-graduate program (especially PhD degree program) may be linked with the provision/development of the facilities/services (Laboratories, Departmental Library and research farm and faculty offices etc at the university).



## Annexure-1

### **NAEAC Inspection Team**

The Chairman, NAEAC approved an Accreditation Inspection Committee (AIC) for evaluation of the Entomology Program, Department of Agricultural Sciences university of Haripur, Haripur. The committee comprised of the following members who undertook a visit to the said institution on March 19, 2014.

**1. Prof. Dr. Safdar Ali**

**(Convener)**

Dean, Faculty of Field Crops & Food Sciences

PMAS-Arid Agriculture University, Rawalpindi

**1. Dr. Ata ul Mohsin**

**(Member)**

Associate Professor, Entomology Department

PMAS-Arid Agriculture University, Rawalpindi

**The Accreditation Inspection Committee had the following TORs:**

-To validate the self-assessment report (SAR) of the degree program B.Sc (Hons) Prepared by the Department of Entomology, HARipur University, Haripur.

-To carry out external evaluation of the degree program in a transparent, neutral, holistic and participatory manner for accreditation and rating based on seven (7) evaluation criteria given in the Evaluation Manual.

-To submit a synthesized and concise analytical report (3-4 pages only) consisting of SWOT Analysis and actionable recommendations based on the interactions with the Dean, Chairman, Faculty members, Students and Support Staff and alumni as well as detailed visit of physical infrastructure, facilities and other teaching-learning resources available for the degree program.

-To submit clear, specific and justified degree program accreditation and rating recommendations to the Chairman NAEAC.

## Annexure-2

### Name, Qualification and experience of faculty and support staff

#### Faculty Members:

<u>Name</u>	<u>Designation</u>	<u>Qualification</u>	<u>Experience</u>	<u>Status</u>
Dr. Muhammad Saeed	Assist. Professor	Ph. D	10 Years	Fulltime
Hafiz Usman Shakir	Lecturer	M.Sc. (Hons)	01 year	Fulltime
Mr. Zia ur Rehman	Lecturer	M. Sc (Hons)	06 months	Part time

#### Support Staff:

General staff (support staff) of the Dept. of Agricultural sciences is utilized for all disciplines; as there is no separately designated staff for Entomology.

## Annexure-3

### LIST OF BOOKS, EQUIPMENTS AND MACHINERY AVAILABLE IN THE DEPARTMENT OF AGRICULTURE (ENTOMOLOGY):

#### A-ENTOMOLOGY BOOKS

1. Methods in Ecological & Agricultural Entomology by Dent and Walton M. P., CABI Publishing 1997.
2. Ecologically-based Rodent Management by Singleton and Hinds, Australian Center for International Agricultural Research Canberra, 1982.
3. Biological Control of Insect Pests: Southeast Asian Prospects by Waterhouse D. F., Asian Center for International Agricultural Research Canberra, 1982.
4. Dragonflies of the World by Jill Silsby CSIRO Publishing Australia 2001
5. Introduction to Insect Pest Management by Robert L., and William H. by John Wiley & son, inc., 1994.
6. Immunology of Insects & Other Arthropods by Ayodhya P. Gupta, CRC Press, New York, 1991.
7. Agricultural Pests of Southeast Asia and their Management by Atwal, A.S. Kalyani Publishers, Ludhiana, 2005.
8. A Gateway to Entomological Teams by Dr. Muhammad Ishfaq National Book Foundation, 2004.
9. The Insects: Structure and Function by Chapman, Hodder and Stoughton Ltd., U.K., R.F. Cambridge University, 2002.
10. Entomology and pest management by Pedigo L. P., PHI India 2007.
11. Insect Flight by Graham J., CRC Press, 1989.
12. Evaluating Indirect Ecological Effects of Biological Control by Wajnberg, CABI Press 2001.
13. Insect Pest Control: Using Plant Resources by Ignacimuthus, Narosa Publication New Dehli, 2012.
14. Textbook of Applied Entomology by Srivastava K. P. Kalyani publication, 2010.
15. Sustainable Crop Protection Biopesticide Strategies by Koul O., Kalyani publication, 2009
16. Chemistry, Toxicity and Mode of Action of Insecticides by GOUE T. B., Kalyani publication, 2012.
17. Principles of Entomology: Basic and Applied by Kachhwahan A., India, 2011.
18. Pests of Field Crops and Pastures Identification and Control by Bailey, CSIRO Publishing 2007.
19. Insects of Stored Products by Rees, CSIRO Publishing, 2004.
20. Handbook of Natural Pesticides by Morgan, CRC Press, 1990.
21. Integrated pest management by Shagufta, APH Publishing New Delhi, 2012.
22. Insect Pest Control Using Plant Resources by Ignacimuthu, S.J., Narosa Publishing New Delhi, 2012.
23. Applied Entomology by Shah, H.A. and Saleem, M.A., 3rd Ed., Izhar sons Printers, Lahore, 2002.
24. A Text Book of Entomology by Herber.H, Rose, John Wiley & Sons, Inc. New York, 1964.

25. Pests of Floriculture Crops & Their Control by Ramesh P., Kalyani Publishers New Delhi, 1994.
26. Predatory Lady Bird Beetles Of Pakistan by Ather, Irshad & Inayatullah, NARC & Entomology Department NWFP Agriculture Univ. Peshawar, 2005.
27. Handbook of Pest Management by Hameed & Singh, Kalyani Publishers New Delhi, 2004.
28. Dictionary of Pesticides by Sagwal S. S., Kalyani Publishers New Delhi, 1996.
29. Insects on Plants by Strong, Lawton & Southwood, Harbard Univ. Press Cambridge, 1984.
30. Principles of Insect Pest Management by Daliwal & Arora, Kalyani Publishers New Delhi, 1998.
31. Effective Project Management by Wysocki & Crane, Willey Computer Publishing Toronto, 2000.
32. Fundamentals of Applied Entomology by Robert E.Pfadt, Collier Macmillan Publishers, 1985.
33. Insect Pest Management Horticulture and Forest Crops by Hashmi A. A., Asad Printers Islamabad, 1994.
34. Beyond Silent Spring by Emden & Peakall, Chapman & Hall London, 1994.
35. Insect Physiology by Gour & Sriramulu, Kalyani Publishers New Delhi, 2003.
36. Bugs by Chris Maynard, Dorling Kindersley Book Italy, 2001.
37. The Birder's Bug Book by Gilbert Waldbauer, Harbard Univ. Press Cambridge, 1998.
38. Integrated Pest Management Concepts and Approaches by Daliwal & Arora, Kalyani Publishers New Delhi, 2001.
39. Experimental Entomology by G.T.Tonapi, CBS Publisher India, 1994.
40. Essential of Agriculture Entomology by Daliwal & Singh, Kalyani Publishers New Delhi, 2006.
41. Text Book of Insect Physiology by K.C.Chitra, Kalyani Publishers New Delhi, 2004.
42. The Insect Structure Function & Biodiversity by Dunston P.Ambrose, Kalyani Publishers New Delhi, 2004.
43. Modern Text Book OF Invertebrates by Kotpal & Agarwal, Rastogi Publications India, 1994.
44. The Insects by Farb P., Time Encarporated New York, 1962.
45. The Science Of Entomology by Romoser & Stoffolano,Jr., WCV Publisher England,1994.
46. Entomology & Pest Management by Larry P.Pedigo, Prentice Hall Of India, 2002.
47. Manual of Introductory Entomology by Yousuf, M. Tayyab, M. and Shazia, Y., University of Agriculture, Faisalabad, 2007.
48. Introductory Entomology by Lohar, M.K. Department of Entomology, Sindh Agriculture University Tandojam Sindh, Pakistan, 2001.
49. Entomology Principles and Practices by Robinson, D.H., Agro-bios. 2006.
50. Principles of Insect Morphology by Snodgrass, R. 1. Cornell Univ. Press., U.S.A. 1935.
51. The New Taxonomy by Wheeler, Q.D. CRC Press London, New York, 2008.
52. Forest Entomology by JHA, L.K., Ashish Publishing House New Delhi, 1994.

**BOOKS IN THE VIRTUAL LIBRARY OF ENTOMOLOGY SECTION:**

1. ENTOMOLOGY BY Cedric Gillott, University of Saskatchewan.Saskatoon, Saskatchewan, Canada. Springer Science + Business Media, LLC. Third Edition, 1991 .

2. A Color Atlas of Medical Entomology by **N.R.H. Burgess and G.O. Cowan. First edition 1993. Springer Science+Business Media Dordrecht Originally published by Chapman & Hall in 1993.**
3. IMMS' GENERAL TEXTBOOK OF ENTOMOLOGY.TENTH EDITION Volume I: Structure, Physiology and Development. By O. W. RICHARDS & R. G. DAVIES. CHAPMAN AND HALL. 1977.
4. Outlines of Entomology by R. G. Davies (7<sup>th</sup> edition). CHAPMAN AND HALL. 1988.

## B- EQUIPMENT/MACHINERY

Equipment/Machinery	Quantity	Justification / Uses in experiments
<b>Laboratory equipments</b>		
Compound Microscope.	4	For insects identification
HD Microscope LABOMED (Lx 400) with camera	1	For taxonomic studies
Microscope with camera and LCD	1	For taxonomic studies
Stirrers	5	To mix up sample of experimental materials
Needles	40	Needed for different experiments
Forceps	40	For holding of small thing (seed, insect etc)
Oven (50-500C <sup>0</sup> )	1	For determining % moisture
Furnace (100-2000 C <sup>0</sup> )	1	For determining % ash content
Deep Freezer	1	To preserve inoculums and other plant live materials for long time
Refrigerator	1	To preserve inoculums and other plant live materials
Digital balance	1	For accurate weighing of experimental materials.
Distillation apparatus	1	For preparation of distilled water
Shaker	1	For shaking of experimental sample
Test tubes	10	To be used for chemical analysis

<b>Equipment/Machinery</b>	<b>Quantity</b>	<b>Justification / Uses in experiments</b>
Hot plate	4	
Pipettes	10	
Titration flask	5	
Beaker 100ml, 250ml.	30	For recording humidity
China Dishes 60 cc	10	
Insect Nets	10	For collection of insects.
Killing Jars & tubes	10	For killing insects
Cyanide Jars	5	For killing insects
Chloroform Tubes	3	For insects preservation
Pill boxes	10	For removing insects from the killing jars
Insect Papers	10	For insects display
Glassine envelops	10	For killing special insects like dragonflies and damsel flies
Camel hair brush, Medicine droppers & empty shell vials	10 each	For picking delicate insects
Aspirators	5	For special insects picking
Collecting bags	5	For collecting of insects in the field
Killing & preserving fluids (Acetone)	2 Liters	For preservation of soft bodied insects
Insect Boxes	20	For display of insects in the laboratory
<b>Field Equipments</b>		
Spraying Machine	1	For spraying chemicals in the field

## Annexure-4

### Funded Research Projects:

	<u>Number</u>	<u>Amount</u>
i. On-going project	1	0.150 m (Million)
ii. Underway Res. Project	2	0.650 m (Million)
<b>Total:</b>	<b>3</b>	<b>0.800 m (Million)</b>

## Annexure-5

### Seminars/Workshops/Trainings attended by the Incharge Entomology

#### TRAINING COURSES/WORKSHOPS/SEMINARS ATTENDED

- i. Four months training on (a). Receipt, Storage, Dispatches of Tobacco to processing Factories. (b). Pest Control & Excellent House-Keeping (c). Awareness and Implementation of ISO-9002 Procedures. (e). Logistics Management.
- ii. One week Training on **TEAM WORK** “Getting People to Work Together” through Pakistan Institute of Management (PIM), Lahore, Pakistan, 22-27 November, 1999.
- iii. One day training on “**IMPLEMENTATION OF ISO 14001:1996**” held on March 14, 2001.
- iv. One week Training on “**SKILLS IN GOAL SETTING & WORK PLANNING**” through Pakistan Institute of Management (PIM), Lahore, Pakistan, 18-23 June, 2001.
- v. One day training on “**ISO 9001:2000 QUALITY MANAGEMENT SYSTEM DESIGNING AND DOCUMENTATION**” through Pakistan Institute of Quality Control held on November 9, 2001.
- vi. One day training on “**INTERNAL QUALITY AUDITING FOR ISO 9001:2000**” through Pakistan Institute of Quality Control held on November 10, 2001.
- vii. One day training on “**SAFE USE OF PEST CONTROL CHEMICALS**” through Reliance Chemicals (Pvt) Limited held on February 1st, 2002.
- viii. Two days training on “**ISO 9001:2000 VERSION INTERNAL AUDITOR’S COURSE**” through SGS Pakistan (Pvt.) Ltd. held on March 12th-13th, 2002 at Lahore, Pakistan.
- ix. One day training attended on “**Quality Management System Requirements**” held in Leaf Division Complex on 26<sup>TH</sup> March, 2003.
- x. Two days training attended on “**Building a High Trust Culture**” held on February 19<sup>th</sup> -20<sup>th</sup>, 2004 at Pearl Continental Hotel, Peshawar.
- xi. Three days training attended on “**OHSAS 18001: 1999**” held in Leaf Division Complex from November, 21<sup>st</sup> to 23<sup>rd</sup>, 2005.
- xii. Two days workshop attended on **Execution** at Mardan, KPK, Pakistan organized by Human Resource Department of Lakson Tobacco Company Limited from June, 13<sup>th</sup> to 14<sup>th</sup>, 2007.
- xiii. Five days Sector Specific Training on “**Environmental Impact Assessment (EIA) of Manufacturing and Processing Industries sector projects**” held at EIA Training center, Pakistan Academy for Rural Development Peshawar, KPK from October 29 to November 02, 2007.
- xiv. One day training on “**Achieving business success through Quality Entrepreneurship**” held at Islamabad Chamber of Commerce & Industries, Islamabad auditorium on June 30, 2008 organized by National Productivity



Organization.

- xv. Attended two days conference on **“Infestation Control for Professionals engaged in the Management of Stored Tobacco Pests”** held in Chiang Mai, Thailand on 13-14 May, 2008.
- xvi. Two days training on **“Super 5S Good Housekeeping Japanese Best Practices”** organized by National Productivity Organization in collaboration with Sarhad Chamber of Commerce & Industry (SCCI), Peshawar at SCCI, Peshawar on January 15-16, 2009.
- xvii. Attended one day training on **“Research references & citation use EndNote Software”** at University of Lahore on January 27, 2011.
- xviii. Attended one day training on “Managing the intellectual property rights – ethical compliance and protection of innovation ideas /technologies. Effective handling of Turnitin software for plagiarism” organized by the Institute of Research Promotion (IRP) Lahore on February 08, 2013.
- xix. Attended one month training on “Professional competency enhancement Program for teachers” organized by the Department of Education, University of Haripur from December 17, 2013 to January 21, 2014 at University of Haripur.
- xx. Participated in on-line two days International Research Workshop on Post-graduate Research tools, organized by Research Center for Training & Development (RCTD) Lahore from January 29 to 30, 2014.
- xxi. Attended two days training on “Mixed Methods Research” organized by Institute of Research Promotion (IRP) at University of Lahore on February 19-20, 2014.

Islamabad

**Subject:** Comments on Draft Reports of Six Disciplines of Department of Agriculture

Please refer to your email and telephonic conversation on the subject matter, find attached comments on draft reports of our six disciplines for onward submission to the experts.

**Agronomy:** Cordial thanks are extended to Prof. Dr. Fayyaz- ul- Hassan for such encouraging and positive remarks about accreditation of B.Sc (Hons) Agriculture degree program at the University of Haripur.

It is requested to the subject expert of Agronomy to please revise his view on the continuation of M.Sc (Hons) Agriculture degree program in Agronomy.

**Horticulture:** Kindly refer to the draft AIC accreditation report, received through email. The report is highly encouraging and we may jointly struggle and ensure that the deficiencies/weaknesses pointed out by the AIC program experts are addressed and rectified accordingly to achieve the required standards. Furthermore, it is submitted that Horticulture is the strongest department in terms of students enrollment and experienced faculty and it has a great potential to flourish in future. The AIC expert in Horticulture may be requested to reconsider the final recommendation in connivance to the recommendations given by experts of other Departments like Entomology, PBG, and Agronomy etc.

**Soil Science:** Comments and suggestion by the HEC experts are very much encouraging and hope that section of Soil and Environmental sciences will improve in the light of recommendation made. It is mentioned in the report that currently no lab facility is available, however there is a central lab with good space to accommodate current students and has all be basic equipments to conduct routine soil tests. Therefore it is requested modify this part of the statement.

In SWOT analysis, section **THREATS** it is mentioned that irrelevant faculty (i.e. one is Agri. Engineer & second is Water Engineer out of total four faculty members) has been hired. In fact, when the university of Haripur was a campus of Hazara University the nomenclature was as “Soil & Environmental Science and Water Management” and appointments were made on this basis. Since the inception of University of Haripur, the nomenclature was pruned to Soil and Environmental Sciences only. So it is requested to omit the statement from the report.

Kindly categorical recommend the B.Sc (Hons) and M.Sc (Hons) program for accreditation please.

**Plant Breeding Genetics:** The report of PBG is ok except the respected expert should recommend B.Sc (Hons) degree Program for accreditation please.

**Food Science:** The section of Food Science & Technology should be recommended for up gradation in to a Department of Food Science & Technology. Associate Professor/full professor should be recruited to meet minimum HEC criteria.

**Entomology:** The report of Entomology is ok and encouraging. Many thanks to subject experts

**Dr. Sami Ullah Khan**  
HoD, Agriculture