



AIC Report

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Department of Plant Breeding and Genetics
Shaheed Z.A. Bhutto Agriculture College, Dokri

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1. Executive Summary

National Agriculture Education Accreditation Council (NAEAC) visited Shaheed Z.A Bhutto Agricultural College, Dokri on March 30-31, 2014 for assessment of degree programs B.Sc. (Hons.) in Agriculture Plant Breeding and Genetics.

The college was established in 1991 in the building of Rice Research Institute Dokri and then shifted to new campus in 1997. Currently Shaheed Z.A Bhutto Agricultural College is offering education in various disciplines of agriculture to the students belonging to different districts *i.e.* Larkana, Kamber-Shahdadkot, Shikar pur, Jaccobabad, Kashmore/Kandhkot, Sukkur, Khairpur Mir's, Naushahro Feroze and Mehar taluka's of Dadu district. Currently college is offering seven major subjects including Plant Breeding and Genetics. The graduates from this college are serving in agriculture related various fields in public and private sectors.

So far as infrastructure is concerned the college has good looking building better transport facilities, connectivity to big city and residences for the faculty members. If we focus on the teaching and research activities, these two areas require a lot of improvements to meet the national and international standards. Presently there are only two non-PhD faculty members serving in the discipline of Plant Breeding and Genetics. Firstly acute shortage of faculty member is a limiting factor to impart the quality education among enrolled students. Secondly faculty is unaware with latest knowledge and skills related to the Plant Breeding and Genetics. However both faculty members are hardworking and sharing best of their knowledge. Unavailability of latest text books related to the field of Genetics, Cytogenetic, Plant Breeding and Biometry was observed as these books are crucial for the student of department of Plant Breeding and Genetics. Laboratory is present but there is dire need to furnish with latest equipments. The department has enough field area and minor research activities in the field were

also observed. Sufficient field and laboratory staff was available but this staff has no opportunity for training and promotion. Computer facilities for the students and faculty members within the discipline/college for browsing the online journals and textbooks is also lacking. The degree programs in Plant Breeding and Genetics are also deficient in major criteria namely Alumni Association, Placement bureau, functional tutorial groups arrangements for proper counseling of the students. Student hostel is good looking but without facilities of indoor games and internet. Hence the degree programme is not meeting some of the major criteria, therefore it is recommended that along with qualification improvement of existing faculty members new PhD faculty particularly one professor and one associate professor should be recruited on urgent basis and latest educational facilities should be provided for quality education. It is recommended that degree programme in Plant Breeding and Genetics should be continued with existing set up with the intentions of improvement because it is the need of the area.

2. Introduction

Sindh Agriculture University

Sindh Agriculture University is situated in Tando Jam town at 18 km from Hyderabad, on Hyderabad-Mirpurkhas highway and is about 200 km from Karachi airport linked with super highway to Hyderabad. Sindh Agriculture University is ranked 4th best university in agriculture by the Higher Education Commission.

The university is an academic complex of five faculties, two centres, one constituent college and Directorate of Advanced Studies and Research. The five faculties are Faculty of Crop Production, Faculty of Crop Protection, Faculty of Agricultural Social Sciences, Faculty of Agricultural Engineering and Faculty of Animal Husbandry and Veterinary Sciences. Three graduate degree programmes are offered in the five faculties majoring in almost 36 departments.

These include the Doctor of Veterinary Medicine (D.V.M), Bachelor of Engineering in Agriculture (B. E. Agriculture) and Bachelor of Science (Agriculture) Honours. The university offers postgraduate programmes leading to the award of M.Sc., degree in Animal Husbandry and Veterinary Sciences, Agricultural Engineering and in all the above mentioned disciplines of Agriculture. M.Phil. and Ph.D degree programmes are also offered in selected subject areas where trained staff and other facilities are available.

Shaheed Z. A. Bhutto Agricultural College, Dokri

Shaheed Z.A Bhutto Agricultural College, Dokri, is the only constituent college of Sindh Agriculture University Tandojam, which is located in Taluka Bakrani about 15 km away from Larkana near Hyder Jatoi Railway Station on Bakrani-Dokri Road via Mehrabpur. The ruins of famous historical city Moen-Jo-Daro is about 10 km in South-West. The distance between the Sindh Agriculture University Tando Jam and Shaheed Z.A Bhutto Agricultural College, Dokri is about more than 300 km. This long distance creates administrative and teaching issues in the college. However this college is solving many problems of the area relating to agriculture.

3. SWOT Analysis:

Strength and quality of faculty:

- Faculty and students are the strength of an institution unluckily both are unsatisfied in prevailing conditions. Both faculty members need to improve their education.
- The department has sufficient research area for the conduct and demonstration of different experiments.
- Sufficient residences are available for the faculty members.
- Good looking hostel but lack of facilities like computer lab. and internet.
- Sufficient laboratory and field staff.
- Transport for staff and students are adequately available.

Weaknesses

- There is acute shortage of faculty members, more less number as criteria set by HEC therefore senior faculty members (Professor and Associate Professor) on permanent or TTS needed to be appointed for strengthening the department and proper dissemination of quality education and modern research technology.
- Deficiency of teachers adversely affect the working efficiency due to teaching of more courses
- No internet facilities are available in the offices of the faculty members of the department even in the college.
- Lack of departmental library.
- Lack of latest edition of text book only two text books are available in the library.
- Lack of administrative and financial control of the principal.
- No computer facility is available in the student hostel.
- No Greenhouse facilities for controlled experiments.
- Internet connection is not available for the faculty and students
- Lack of implements for proper conduct of experiments in the field.

Opportunity

- The College is situated in the highly fertile area where major crops like wheat, cotton, Rice are grown. If the research facilities are provided improved varieties of these crops can be evolved.
- Existing college should be upgraded for the betterment of the area and good management.
- The department can arrange training of local farmers for improved techniques.
- The students have good opportunity of employment in seed companies because of important cropping area.

Threats

- More teaching staff should be recruited especially with PhD degree for dissemination of quality education and technology otherwise students will seek admission in another institution.
- Without quality education progress and prosperity of area will be stagnant.

Suggestions/recommendations

With through discussions with the faculty members and students the following recommendations may be considered to boost up the department of Plant Breeding and Genetics.

- More PhD faculty members particularly Professors and Associate Professors should be appointed for proper research guidance and imparting of new knowledge to the students.
- Keeping in view impotence of Area College should be up graded to an independent university.
- Faculty development program should be initiated for existing and new faculty members.
- Access to digital library facility should be made available.
- Maximum administrative and financial power should be given to the principal for quality education and conducting research.
- Provision of Internet facility in the college.
- Establishment of computer lab. with internet facility in the student hostel.

Annexure: i

Name, Qualification and experience of faculty and support staff faculty members:

Name	Designation	Qualification	Experience	Status
Abdul Razzaque Mangi	Assistant Professor	M. Sc. (Hons.)	17 Years	Regular
Nazir Ali Panhwer	Assistant Professor	M. Sc. (Hons.)	17 Years	Regular

Support Staff:

Athar Hussain Soomro	Junior Clerk
Qadir Bux Chandio	Tractor Driver
Najmudin Sario	Field Assistant
Qurban Ali Morio	Beldar
Hussain Bux Jamro	Beldar

Annexure-ii

List of Books related to Plant Breeding & Genetics

S.No	Author	Year	Title
1.	Manzoor Ahmed Khan	1994	Plant Breeding
2	J.M. Poehlman	1977	Breeding Field Crop
3	N.V. Ruthwell	1993	Under Standing Genetics A Molecular Approach

Annexure-iii

List of Laboratory Equipment

1; Laminar Air flow Cabinet

2, Electronic Balance.

Annexure-iv.

Funded Research Projects: No Project