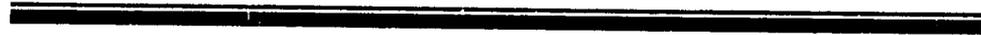
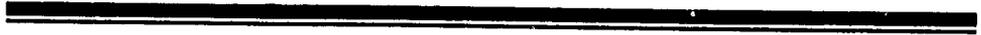


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TIPAN  Northwest Frontier Province, Pakistan

Transformation and
Integration of the
Provincial
Agricultural
Network



**Office of International Agriculture
University of Illinois at Urbana-Champaign**

**In collaboration with
Southern Illinois University at Carbondale**



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CONSULTANT'S REPORT - HOWARD H. OLSON

ANIMAL HUSBANDRY

NOVEMBER-DECEMBER 1985

Submitted to
the Northwest Frontier Province
Agricultural University
Peshawar, NWFP, Pakistan

and

the U.S. Agency for International Development
Mission to Pakistan

A Report of Contract No. 391-0488

by

Office of International Agriculture
University of Illinois at Urbana-Champaign
Southern Illinois University at Carbondale

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SUMMARY

The faculty of the Agricultural University were most cooperative in helping carry out my assignments. Dean Basit Ali Shah assisted me in every possible way to interact with his faculty. Dr. Iqbal Shah was also generous with his time. The members of the University who have visited SIU wanted to return the hospitality.

I found the TIPAN team gracious hosts. We can be pleased to be represented by them. The office staff was responsive to my requests. I do foresee a need for additional secretarial help when there is an increase in the number of short-term technical assistants. The AID office staff typed my report for which I am grateful.

The Faculty of Animal Husbandry is in a transition stage making it difficult to execute the programs we wish to see initiated. Three members of the faculty are in training in the USA and this has put a strain on the program. Greater emphasis should be placed on selecting well qualified people for the faculty and training. Some selected for training have English language deficiencies, and every effort should be made to avoid this situation in the future.

While the Faculty of Animal Husbandry is beginning to gain recognition as an important part of the agricultural university, it still suffers from years of neglect. The designation of Dr. S. Iqbal Shah as Associate Director of Research is an important step to enhance the animal program as well as the total university.

The teaching materials presented to the faculty were eagerly received, and I am confident they will be used effectively. The research program is in its infancy at this time. Little will be done until there are livestock facilities in which to conduct the research and more faculty return from training. I do suggest that the cattle facilities recently constructed on campus be used for some of the dairy cattle prior to the development of the new facilities.

The reorganization plan for the university should be implemented which includes shortening the name of the Faculty of Animal Husbandry and Veterinary Sciences to Faculty of Animal Husbandry.

The failure to come to closure on the merger with the livestock research units makes it difficult to plan

a program. Every effort should be made to make this merger a reality.

Six TDY requests were proposed for the Faculty of Animal Husbandry.

A forage program must be developed. The opportunity is there and should be pursued vigorously.

FACULTY OF ANIMAL HUSBANDRY

During the TDY, I met with the entire Faculty of Animal Husbandry four times and conferred with each member at least once to determine their progress toward improved teaching and research. I brought numerous teaching aid materials for their program. (Note list in Appendix.) Basit Ali Shah and Nazir Ahmed made use of some of these materials prior to my departure. Two days prior to my departure, Dr. Rodda and I met with faculty to review my recommendation. (Note Scope of Work in Appendix.)

I volunteered to take one of the lectures for the Introduction to Animal Husbandry course. There are two sections (75 students in each). The topic selected was artificial insemination. I designed the lecture to make use of the materials I brought from the USA. Both of the presentations went well, and the students were attentive and asked many questions. The overhead projector failed to work during the first class, and an electrician came to fix it. The blackboard and chalk were a problem. Projection screens are needed.

Requests for Short-Term Technical Assistance

I asked for suggestions on the faculty's needs for TDY. Basit suggested I assist in drafting the requests. The requests were drafted after consultation with faculty concerned with each of the subject areas. Short-term technical assistance requests were prepared for breeding and genetics, animal diseases, sheep and goats, livestock facility design, ruminant nutrition and poultry specialist. These were approved and submitted to Dr. Waananen. (Note TDY in Appendix.)

Forage Program

Members of the faculty are greatly interested in the development of a forage program. Consideration was given to include the forage production within the Faculty of Animal Husbandry rather than in agronomy. The rationale for this approach is to insure that livestock needs are considered. There is an excellent opportunity at this time to initiate a forage program. The station at Surezai is actively seeking a forage expert and has sought the assistance of Muslim Shah of Tarnab. Joe Marion also is interested in developing

the forage research program on the University Farm. A forage production specialist could serve the University Farm, Surezai and the Jaba Sheep Research Station. In addition, he could teach the forage production course. The TIPAN design recommended this program for the Agronomy Department and a forage utilization specialist and range management for the Faculty of Animal Husbandry. The consensus is to follow this approach and at the same time develop close linkage with Agronomy to assure livestock needs are recognized and that assistance will be provided to the livestock research units throughout the NWFP. As a result of these discussions, I drafted a request for short-term technical assistance in forages. I presented this proposal to Mohammad Karim, and he was receptive. This could be the real breakthrough in developing a team approach. The Department of Agronomy has also designated Tariq Jan for training in forages. He is taking the necessary examinations. I have met him, and he appears capable and interested. Mr. Muslim Shah, a graduate of Fresno State, should be considered for a short-term training in the USA at either Arizona or New Mexico on forage crops. He is more senior and could be helpful to the program while Tariq Jan is in training.

Summary of Interviews with Faculty of Animal Husbandry

M. Amjad: He will depart for the USA on December 28 to enter into the graduate program at the University of Minnesota. Our discussion focused on his course of study. I suggested he concentrate on a program which includes management and nutrition and assured him I will follow his program and alert my colleagues to his interest.

Mashoog Ali: He holds a DVM from Lahore and is an employee of the VRI on deputation to the A.U. He teaches animal health courses and is currently responsible for the poultry program. He appears to have a good grasp of his work and seems to be an excellent contributor to the total program. He is not interested in long-term training because of family. He wishes to maintain his tie to the VRI because of the years of service. He would consider a full transfer to the university if his retirement credits would come with him. We discussed poultry facilities and possible linkages with the Department of Animal Husbandry Poultry Farm. They have 3,000 layers. Their only function appears to be to produce eggs. An agreement with this organization could lead to some research

opportunities. I requested that he give recommendations on what a poultry specialist could do on a short-term consultancy.

He asked me to obtain literature for "Breeder Flock Management." Local poultry breeders have been experiencing leg problems in their birds which may be a nutritional problem.

Nazir Ahmad: B.S. and M.S. Peshawar. Formerly dairy herdsman and now a lecturer for the introduction to animal husbandry course. We reviewed the course and the teaching materials I brought for their use. The text purchased for this course is not being used. Mr. Ahmad became the instructor when Taj Mohammad went to the USA. He expressed concern about going to USA for training and where he would study. I told him he must improve his language skills before being accepted for training. I recommend a six month non-degree program for him if he is unable to improve his TOEFL score.

Mirajuddin: B.S. and M.S. Peshawar University, 1976. Age 36. After graduation, he was employed by the Military Dairy Farm in the Punjab first as assistant manager and later as manager. From 1978-82, he taught animal breeding and other livestock courses in Iraq at a technical college (Mosul). In 1983, he was brought to the Agriculture University to teach animal breeding and assist with the poultry program due to the departure of Mushtaq Mian for training in the USA. He has been designated for training in the USA for a Ph.D. in animal breeding. His preference is to specialize in dairy cattle breeding. He did not express a preference for an institution. It may be desirable to have him attend the University of Illinois. The person selected for a TDY in animal breeding and genetics could later serve as his advisor. Dr. Cragle suggested that Roger Shanks at the UIUC be considered for the TDY. Should this develop, it could prove to be an ideal situation for the student advisor to be familiar with the need of the NWFP and then develop thesis research relevant to Pakistan.

Mr. Mirajuddin's wife has a M.S. in human nutrition from Faisalabad and also taught in Iraq. We should look into her possible role in human nutrition at AU.

Mirajuddin should be an excellent student for a Ph.D. I assume his record and language skills are

strong enough for admission to a Ph.D. program in the USA.

Basit Ali Shah: Dean of the Faculty of Animal Husbandry was most cooperative. He appears to have a good grasp of the department needs. He is now teaching the nutrition course and serves as department chairman of the Animal Nutrition. Some of the shifts in responsibility for courses in the department is largely due to the lack of staff since three persons are in the USA for training and the long standing inadequacy of staffing in the animal program. Basit is an enthusiastic person willing to adjust to the many changes envisioned for the Faculty of Animal Husbandry.

Iqbal Shah: Department Chairman of Livestock Management. He has also been designated to serve as Associate Director for Research. He continues to serve in many capacities of support for both the Dean and Vice Chancellor. Unfortunately, this also fragments his time and can be harmful to him professionally. As in the past, he was most cooperative. He has real leadership abilities and is an asset to the animal husbandry program in the NWFP.

Teaching

The classrooms are poorly lighted and cold. Power failures accentuate this problem. I realize that there will be improvement, once the new buildings are completed, but I believe more could be done by the faculty to improve the atmosphere with only minor input such as washing windows, making sure the shades or curtains are repaired, etc.

I learned that the class period is 45 minutes with no break between classes. In some situations the students remain in their chairs while a new instructor enters as the other departs. This situation was specifically addressed in the design as a hindrance to learning. I recommend that these practices be reviewed and modified. The same class also meets at different times of the day. A more orderly scheduling of classes is needed.

The teaching aids I brought from the USA were greatly appreciated. I am confident the faculty will use them.

Research

The current research is confined to thesis projects. These presently include evaluation of by-product feeds for dairy cattle and management practices. Poultry feeding trials are also underway. The low level of research is due in part to staff deficiencies. The other major factor is the lack of livestock and poultry housing facilities suitable for research. A third factor is funding. The addition of the Surezai and Jaba units plus the research oriented staff of the Animal Production Unit of the VRI will give a major boost to quality research.

Livestock Facilities

The faculty expressed concern about the timing of the construction of the livestock research farm facilities. The Governor has requested that the dairy unit be removed from the Peshawar University campus. This facility is totally inadequate and not suitable for teaching and research.

Consideration should be given to relocating this operation to the building constructed for the dairy herd in 1983. I realize these facilities are to be demolished for campus development but I predict they will still be standing for another two years and it will take at least one to two years to construct the new dairy facilities. Moving the dairy herd now would make the animals more accessible for instruction and research projects. Feed is more readily available and the newer facilities are far superior to the old.

The only real objection to this proposal concerns the housing arrangements for the dairy farm employees. This must be considered but I am sure a solution could be found. Consideration should be given to employing the students as workers at the dairy. This is an excellent teaching tool and it would alleviate the concern that the NWFP AU students do not have practical experience. The location of the dairy herd near the campus and the student housing should make it easier to obtain student participation.

Much remains to be done on the design and precise location of the dairy, small ruminant and poultry facilities. We need additional information on the SOM plans. The facilities should be constructed north of

the existing farm center on land designated for fodder production.

Artificial Insemination

The Faculty of Animal Husbandry expressed interest in establishing an artificial insemination center on campus. The objective is to develop closer contact with local dairy farmers and to train the students.

I fully agree with the need for training the students in the technique of artificial insemination. This is normally a part of courses on physiology of reproduction. At present, the faculty does not include a person trained in physiology. The physiology courses are to be offered in the third and fourth year. Recruitment of a competent person for teaching this course should be initiated. The VRI Animal Production Staff does include persons trained in this field.

The proposal to have a AI Center on the campus should be reviewed carefully. It would be in direct conflict with the Department of Animal Husbandry. I would first look into ways of using the AI Center at Surezai for teaching and research.

Long-Term Technical Assistance

It is my understanding that the next step to fill this two year position is for the TIPAN PWG to nominate a person for this position. Dr. Rodda indicated that the position description in the design and project paper is adequate. Filling of this position in August or September of 1986 is acceptable.

STATUS OF MERGER WITH ANIMAL RESEARCH UNITS IN THE NWFP

Animal Production Division of VRI

Mohammad Bashir Qureshi, Director of Livestock Research and Development of the Veterinary research Institute, indicates great willingness to merge with the AU. He was open in his discussions and eager to cooperate. The staff is highly qualified and should be used immediately to assist the instructional program at AU. The facilities at Surezai provide an excellent opportunity for teaching and research. Field trips to this site for the animal husbandry students would greatly strengthen the program. These facilities should be used for graduate student research. The forage program is unique in Pakistan and should be expanded. The farm is well equipped with field machinery which could be used more effectively. The work in animal draught should be encouraged and possible linkages with the research at the International Livestock Center for Africa in Ethiopia be explored. The animal production staff along with educational background are as follows:

M. Bashir Querashi (Surezai), Director of Livestock Research and Development, B.S., Veterinary Science, Lahore; M.S., Animal Production, AUB.

Iqbal Yusuf, Senior Research Officer, B.S., Veterinary Science, Lahore; M.S., Parasitology, Faisalabad.

Syed Nasir Hussein, Senior Research Officer, DVM, Lahore; M.S., Animal Production, Faisalabad. Candidate for Ph.D., Netherlands, specializing in animal reproduction.

Ghulam Habib, Research Officer, Animal Nutrition, DVM, Diploma, Ruminant Physiology, Denmark; Candidate for Ph.D., Australia Animal Nutrition.

Fazail Subhan, Research Officer, Dairy Husbandry, B.S., Veterinary Science, Lahore; M.S., Livestock Management, Faisalabad.

M. Mohsin, Veterinary Officer, Research Animal Nutrition, DVM, Lahore; M.S., Nutrition, Peshawar; M.S., Nutrition, England.

Ghulfranullah, Veterinary Research Officer, Dairy, DVM, Lahore.

Fazal Rahim (Surezai), Agriculture Officer, Crops, B.S., Agronomy, Peshawar; M.S., Agronomy, Peshawar; on deputation from Agriculture Extension.

Aftab Hussain (Surezai), Farm Supervisor, B.S., Animal Husbandry, Faisalabad.

Sher Nadir (Surezai), Veterinary Officer, Reproduction, DVM, Lahore; M.S., Physiology of Reproduction, Faisalabad.

Open Position, Fodder Crop Position. Discussion focused on transferring Muslim Shah agronomist from Tarnab to Surezai.

Personnel for Training

Meera Khan has been selected for M.S. training. He is currently on deputation to the Department of Animal Husbandry. His papers are being evaluated for admission to Southern Illinois University. Dr. Waananen and I interviewed him and found him to be a good candidate for training. He was nominated by Dr. Ansari of VRI.

M. Bashir Qureshi has been selected for a six-month non-degree training program in the USA. It is recommended that he observe the management of research stations which are appropriate to Pakistan conditions. University of Arizona and Nebraska should be included in addition to the Illinois universities.

During the period when present faculty are away for training, the Faculty of Animal Husbandry should utilize this excellent resource rather than hiring temporary inexperienced personnel. Those completing Ph.D.'s should be added to the resident faculty.

Department of Animal Husbandry - NWFP

This organization is presently responsible for outreach activities in Animal Husbandry for the NWFP. There are animal clinics throughout the province which provide animal health care and artificial insemination. Their outreach program is more passive than active. The livestock farmers come to the stations rather than the personnel reaching out into the community.

The Jaba Sheep Station is under the jurisdiction of the Department of Animal Husbandry and is to be merged with AU. Based on reports of fellow TIPAN members, the personnel at the Jaba Station are not aware of how or when the merger will occur. In a meeting with Dr. M. Jan Khan, Director of the Department of Animal Husbandry, I became convinced that little progress had been made toward making this merger a reality.

Dr. Bill Seiders, Dr. Iqbal Shah and I met with Dr. Jan in the Department of Animal Husbandry. He stated that he has not been fully advised on the plans to upgrade the animal husbandry program at AU. He expressed concern about the adequacy of the training of the animal husbandry majors. Since he is the principal government employer of the future graduate of AU, it is essential that he be fully informed of the program. He is opposed to the name animal science since this indicates more theory than practical applications and he wants an applied animal husbandry program. He wants the students to have experience in handling cows. He does not approve of the present name Faculty of Animal Husbandry and Veterinary Science. I agree that the name be switched to Faculty of Animal Husbandry as is suggested in the TIPAN design.

Much of the meeting centered on outreach activities, and it provided Dr. Seiders an excellent opportunity to become acquainted with this program. Since the initial meeting, Dr. Jan has requested a meeting with Dr. Seiders. For the future success of the animal husbandry program in the NWFP, it is essential that better lines of communication be established between the AU and the Department of Animal Husbandry. Dr. Seiders plans to continue the contact with Dr. Jan.

I understand that the morale at the Jaba Station is exceedingly low. There are conflicting reports on the continuity of the support by the Australians of the research. Since I had previously visited Jaba in 1983 and Bill Seiders and Joe Marion just returned from there, I decided it would not be of value to go to the station at this time. This station should be looked upon as a vehicle to undertake forage and range management research and interact with the forestry program of the country.

An evaluation team from the Netherlands reported their observations to Dr. Rodda and me. They observed that the personnel in the department are all veteri-

narians and not trained in animal husbandry and extension activities are minimal. The livestock improvement program needs upgrading.

UNIVERSITY REORGANIZATION

The TIPAN team expressed dismay at the proliferation of departments in a recent action of the governing syndicate. In reviewing this situation, I was also disappointed in learning that the organizational structure recommended by the Design Team has not been implemented. The motivation for fragmentation is obviously rooted in the desire for the rewards associated with declaring a small grouping as a department. It has little to do with the programmatic needs. (Note Office Order 27/10/85 in Appendix.)

To counter these recent moves, the TIPAN team should urge adoption of the organization proposed in the design. To delay will only cause more proliferation and increase the difficulty of consolidation. The Faculty of Animal Husbandry is justified in stating they are being discriminated against because they have not formed as many departments. During the design phase, the animal husbandry design team recommended three departments on the basis of discipline rather than species (beef and sheep husbandry, dairy husbandry, poultry husbandry, and veterinary science). One may even argue against this approach, but in the context of the NWFPAU it is essential to develop recognition for the importance of the program and its needs.

The Faculty of Agriculture should be changed to Faculty of Plant Science. This will remove the impression that only one Faculty is the true Faculty of Agriculture in the Agriculture University. The name of the Faculty of Animal Husbandry and Veterinary Science should be changed to Faculty of Animal Husbandry as recommended. The present name does not command respect among related agencies in the province nor is it descriptive of the program.

The department recently established as "Animal Husbandry" should be changed to Animal Nutrition. Livestock Management should be changed to Animal Breeding and Management. The third unit should be Physiology and Animal Health.

Seminars, Workshops, Etc.

The faculty should be encouraged to conduct various programs on campus to attract people to the

NWFPAU. These activities should be open to persons employed by government and the private sector. The short-term consultants could be an excellent resource for enhancing the image of the university as an educational center for the NWFP.

Seminar

I presented a seminar to the faculty on "Livestock in Mixed Farming Systems" and a brief overview of Southern Illinois University. Approximately 30 persons attended the session. The audience included students and faculty. The inadequate window coverings and the cold room were detrimental to the presentation. "Torture Chamber" was written on the door to the room. There was good discussion and interest was expressed in using the farming systems approach.

Dr. Kroening's Visit

Dr. Gilbert Kroening, Dean of Agriculture, Southern Illinois University, arrived in Peshawar on December 11, 1985. He was traveling on an assignment for the Far East Regional Research Organization (OICD/USDA). His stop was designed to familiarize him with agriculture in the NWFP. He is a delegate to the conference on research priorities for USA/Pakistan held in Islamabad on December 15 and 16. Dr. Cragle, Dr. Iqbal Shah and I attended this meeting.

Social Interaction with the Faculty

I was the guest at luncheons given by Hafiz Inayatullah at the hostel on campus and Mohammad Karim Khan at his home. The V.C. attended both events along with other members of their respective faculties and the TIPAN team. The luncheon by Hafiz was in honor of John Santas and the one by Karim was in my honor. Vice Chancellor Khattak entertained the TIPAN team with a tea at his home. Iqbal Shah hosted me at a dinner at his home along with three of his friends.

I also attended a luncheon at the Pearl Continental Hotel for the World Bank team.

I was a guest at the home of all the TIPAN team members and accompanied the Marions on an overnight trip to Mingora (Swat).

National Agricultural Research Center - Islamabad

At the conclusion of my TDY in Peshawar, I traveled to Islamabad to attend the USDA-PARC Silver Jubilee Celebration at the National Agriculture Research Center. Dr. Gilbert Kroening, Dean of the School of Agriculture at Southern Illinois University, was a delegate to this meeting. Dr. Ray Cregle and Dr. Iqbal Shah of the Agriculture University also attended. The meeting was sponsored by the Far East Regional Research Organization (OICD/USDA) and the Pakistan Agriculture Research Council.

The purpose was to review the accomplishments for the PL 480 program in Pakistan over the past 25 years. In addition the objective of the conference was to establish agriculture research priorities for the USA and Pakistan to be funded by the PL 480 funds. This meeting offered an excellent opportunity to make the agriculture research establishment in Pakistan aware of the North West Frontier Province Agriculture University. Dean Kroening was the only representative of a university in the United States, and both Dean Kroening and I took every opportunity to urge cooperation with the Agriculture University in Peshawar for research in Pakistan.

In numerous conversations with Dr. Amir Mohammed he clearly indicated he looked forward to the NWFP AU project to set a standard for the entire country of Pakistan. He is expecting great things from the TIPAN project, and I am confident we can count on his support. He expressed interest in the relationships between the universities research and extension activities in the United States. In a special informal session with the USDA delegation, we had a wide ranging discussion of these relationships. The presence of Dr. Ray Cragle was particularly important in this discussion.

Dr. Iqbal Shah is held in high regard by Dr. Amir Mohammed and proved to be an asset at this meeting. I recommend that we build on these contacts and make every effort to seek funding for research at Peshawar from the PL 480 funds.

The research priorities presented in a lengthy closing session of the meeting were much more diverse than I believe that the American Delegation wanted. It became a situation where everything was included. I

sat in on some of the planning sessions for forestry and range management. As a result of my input, the recommendations included the need to work with people in livestock and forage production to improve range conditions. Unfortunately the attitude of the people in forestry and even range management is one that animals tend to be a nuisance. The animals may indeed be a nuisance but they are there and will always be there. It is foolhardy to try to dismiss them in that manner. A very good statement came out of the animal section urging cooperation with the people in forage and range management to bring about improvement in livestock production in Pakistan. The Faculty of Animal Husbandry in Peshawar should seize upon this as an opportunity to develop a multidisciplinary approach to improvement of livestock production in the NWFP.

It may be desirable to host Amir Mohammed in the United States to make him more aware of the interaction between teaching, research and extension.

In summary the meeting in Islamabad was very worthwhile and should be looked upon as an opportunity to establish the research credentials of NWFP AU. I am confident that both Dr. Ray Cragle and Dr. Iqbal Shah recognize the significance of this meeting.

APPENDIX

Instructional Materials

The following material were presented to the Faculty of Animal Husbandry:

1. Two notebooks containing course outlines, lecture notes, and examinations for 11 courses on animal husbandry.
2. Forty transparencies for teaching (primarily on physiology of reproduction and milk secretion).
3. Training course on artificial insemination and palpation (86 slides and 6 cassette tapes).
4. Signs of heat lecture (notes and 15 slides).
5. Recovery of the uterus after calving (notes and 12 slides).
6. Parts of dairy cow. Sketch and cow model and paints for marking parts.
7. Plastic model of reproductive tract of cow.
8. Instructional manuals.
 - a. Livestock judging manual;
 - b. Livestock waste facilities;
 - c. Live animal carcass evaluation and selection;
 - d. Production and processing practices of animal husbandry laboratory notes.
9. NASCO lecture guide on reproduction of cattle.
10. American Breeders' Service - catalogs and promotional material on artificial insemination.
11. Babson Brothers Educational Material.
 - a. Current concepts of bovine mastitis;
 - b. Harvesting your milk crop;
 - c. Mastitis management;
 - d. Prescription for a healthy dairy;
 - e. Dairy equipment;
 - f. Dairy basic design.
12. NASCO transparencies.
 - a. Pregnancy examination and artificial insemination;

- b. Genital organs of the cow (dorsal);
- c. Genital organs of the cow (sagittal lecture);
- d. Lateral dissection of genital organs of the cow;
- e. Ovary of cow during heat;
- f. Bull's reproductive tract;
- g. Internal parts of the hen;
- h. Major parts of an egg;
- i. Composition and parts of the egg;
- j. Injection sites - cattle.

FACULTY OF ANIMAL HUSBANDRY and Veterinary Science

Phone No. 41863

N.W.F.P. Agricultural
University Peshawar



No. 212/F-AHVS...

Dated 23/9/1985...

REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE

in the

FACULTY OF ANIMAL HUSBANDRY

NWFP AGRICULTURAL UNIVERSITY

REQUEST

The Faculty of Animal Husbandry in the Northwest Frontier Province Agricultural University requests short-term technical assistance in animal husbandry to help with the implementation of the new teaching, research, and outreach programs.

STATEMENT OF NEED

The Faculty of Animal Husbandry is in the process of implementing various changes in all of its programs, but especially in the teaching program and the integration of research and teaching. An integral part of these programs is the development of approaches for outreach activities with local farmers.

Assistance in the initial development of these programs is needed at this time. Assistance is particularly critical in the teaching area. Development of instructional materials for the new courses is essential but difficult to do by the instructional staff without some outside help. The faculty is in the midst of upgrading basic equipment in the classroom and laboratories and needs guidance in the selection process.

SCOPE OF WORK

1. Review progress of implementation of the animal husbandry program in teaching, and, also, assist in planning the animal husbandry teaching program for 1986 and beyond.

2.

FACULTY OF ANIMAL HUSBANDRY and Veterinary Science

Phone No. 41863

N.W.F.P. Agricultural
University Peshawar



No. 812/F-AH/85.....

Dated... 23/9/85 ..

Request for Short-Term Technical Assistance

Page 2

2. Assist animal husbandry instructors in development of lecture notes, course outlines, teaching aids, other instructional materials, examinations, and grading procedures.
3. Make recommendations for the preparation of additional equipment needs for teaching, research, and outreach.
4. Conduct at least one seminar on a current topic related to animal husbandry.
5. Assemble U. S. instructional materials in animal husbandry for use by the Faculty of Animal Husbandry, NWFP-AU.
6. Review the animal husbandry curriculum and recommend needed revisions.
7. Work with the research specialist in a review of the animal husbandry research program and make recommendations for future research.
8. Make suggestions for student-related research projects.
9. Work with the outreach specialist in a review of outreach activities in animal husbandry.

Ambr signed
M. A. 5.12.85

Prof. M. Asrar
Registrar

Requested by

S. Basit Ali Shah

Professor S. Basit Ali Shah
Dean.

FACULTY OF ANIMAL HUSBANDRY and Veterinary Science

Phone No. 41863



N.W.F.P. Agricultural
University Peshawar

No.....F-AHVS.....

Dated25.11.1985..

Dear Dr. Rodda,

In order to avail the benefits of the vast experience of Dr. Howard H. Olson, I would like him to assist us in

1. Curriculum development after discussing with Faculty members and the Director of Animal Husbandry.
2. List of equipment for reproductive physiology and development of Artificial Insemination programme for the Faculty.
3. Visits to University Dairy Farm, Dairy Farm at Gurezal and Harichand Dairy Farm, visit to Jabba Sheep Farm, and suggest ways and means of improvements.

Dr. Errol Dm Rodda,
Team leader Tipan Project.

S. Basit Ali Shah
(Professor S. Basit Ali Shah)
Dean.

TIPAN

REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE

WFP Agricultural University

DATE OF REQUEST 11/12/85 DEPARTMENT/UNIT Animal Husbandry

TYPE OF ASSISTANCE REQUIRED Ruminant Nutritionist

PREFERRED TIME PERIOD Spring-1986 one month

STATEMENT OF NEED Feed represents 60 to 90 % of the cost of livestock production in the NW

The concepts of balanced rations and least cost rations needs to be introduced. The genetic potential of the animals is not realized because of poor feeding practices. There is a need to identify problem areas in animal nutrition and prepare corrective measures.

PROPOSED SCOPE OF WORK 1. Review the nutrition instructional program and propose ways to strengthen the curriculum. 2. Evaluate current nutrition research and outline ways to increase its output of accurate data. 3. Assist with the design of the livestock research facilities. 4. Assist in the integration of the animal production nutrition research units of the VRI with the MWFAU. 5. Review the beef production aspects of the animal husbandry program and make recommendations for its development. 6. Assist the outreach specialist in developing an outreach program on nutrition. 7. Outline a research project to be forwarded for funding to donor agencies. 8. Present a seminar on ruminant nutrition relevant to Pakistan.

RECOMMENDATION/APPROVAL *

1. DEPARTMENT CHAIR S. Basit Ak. S/O DATE 11/12/85

2. DEAN OF FACULTY OR RESEARCH STATION DIR. S. Basit Ak. S/O DATE 11/12/85

3. UNIVERSITY DIRECTOR OR REGISTRAR S. J. P. P. S/O DATE 14.12.85

4. TIPAN TEAM SPECIALIST Mark W. ... DATE Dec 14 1985

5. TIPAN TEAM LEADER S. J. P. P. S/O DATE Dec. 14, 1985

6. TIPAN Project Officer S. J. P. P. S/O DATE 12/15/85

* To be completed no later than 60 days prior to expected arrival of the short-term specialist. This form is to be forwarded by the Technical Assistance Specialist, through the Team Leader, to the University of Illinois TIPAN Project Campus Coordinator for processing.

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TIPAN
REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE
NWFP Agricultural University

DATE OF REQUEST 11/12/85 DEPARTMENT/UNIT Animal Husbandry

TYPE OF ASSISTANCE REQUESTED Sheep and Goat Specialist

PREFERRED TIME PERIOD Spring 1986 One month

STATEMENT OF NEED There is a vast number of sheep and goats in the NWFP but the instructional and research programs do not address the needs of this industry. Poor husbandry practices restrict the yields of meat, milk and wool. The university is not engaged in research on small ruminants. The addition of the Jaba station to the NWFAU will present a new opportunity to work with small ruminants. The faculty needs guidance in developing this program.

PROPOSED SCOPE OF WORK 1. Review the animal husbandry curriculum on small ruminants and assist in upgrading the teaching program. 2. Design research projects for sheep and goats which may be conducted by B. Sc. and M. Sc. students. 3. Evaluate the sheep management program at Jaba and design a program for improvement and research. 4. Assist in the design of the sheep te and research facilities. 5. Develop a forage utilization research program for small ruminants. 6. Present a seminar on recent advances in small ruminant research. 7. Work with the outreach specialist in a review of outreach activities on small ruminants.

RECOMMENDATION APPROVAL *

1. DEPARTMENT CHAIR S. P. I. Ali DATE 11 Dec. 85.

2. DEAN OF FACULTY or RESEARCH STATION DIR. S. Basir Ali Shah DATE 11/12/85

3. UNIVERSITY DIRECTOR or REGISTRAR S. P. I. Ali DATE 14.12.85.

4. TIPAN TEAM SPECIALIST Mark Wasson DATE Dec 14 1985

5. TIPAN TEAM LEADER E. P. Hodder DATE Dec. 14, 1985

6. TIPAN Project Officer R. D. D. D. DATE 12/15/85

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TIPAN
REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE
NWFP Agricultural University

DATE OF REQUEST 11/12/85 DEPARTMENT/UNIT Animal Husbandry

TYPE OF ASSISTANCE REQUESTED Animal Breeding and Genetics Specialist

PREFERRED TIME PERIOD Spring 1986 One Month

STATEMENT OF NEED The animal breeding and genetics program at the NWFAU needs upgrading. A member of the faculty has been designated for PhD training in 1986. His program should be designed to be relevant to NWFP. The consultant selected may later serve as the advisor to the student. There is need to evaluate the livestock breeding and improvement programs of the NWFP prior to designing the students course of study.

PROPOSED SCOPE OF WORK 1. Review the curriculum on genetics and animal breeding and make recommendations on ways to upgrade the course content. 2. Design a course of study for the PhD candidate. 3. Evaluate the cattle(Surezai) and sheep(Jaba) breeding programs. 4. Determine a role that NWFAU may play in the breed improvement programs of the Department of Animal Husbandry(AI center-Surezai, Dairy Farm-Harichand and Poultry Farm-Peshawar). 5. Deliver a seminar on Animal Breeding for faculty and students. 6. Work with the outreach specialist to develop outreach activities on livestock improvement.

RECOMMENDATION/APPROVAL *

1. DEPARTMENT CHAIR A. J. P. Dhillon DATE 11 Dec. 85.

2. DEAN OF FACULTY or RESEARCH STATION DIR. S. Basit Ali Gul DATE 11/12/85

3. UNIVERSITY DIRECTOR or REGISTRAR A. J. P. Dhillon DATE 14/12/85

4. TIPAN TEAM SPECIALIST Must. Usman DATE Dec 14 1985

5. TIPAN TEAM LEADER E. P. Kelly DATE Dec. 14, 1985

6. TIPAN Project Officer R. P. Kelly DATE 14/12/85

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TIPAN

REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE

NWFP Agricultural University

DATE OF REQUEST 11/12/85 DEPARTMENT/UNIT Animal Husbandry

TYPE OF ASSISTANCE REQUESTED Poultry Management Specialist

PREFERRED TIME PERIOD Spring 1986 One Month

STATEMENT OF NEED Mushtaq Mian, poultry specialist on the Faculty of Animal Husbandry, is in the USA working towards a PhD. He is conducting a research program relevant to Pakistan. To further strengthen the relevance to the NWFP, there is a need to have a poultry specialist observe the poultry industry in the NWFP and the opportunities for research.

PROPOSED SCOPE OF WORK 1. Assess the needs of the poultry industry and develop a research program which may be executed in collaboration with Mr. Mian upon his return. 2. Evaluate the curriculum for a poultry specialization and make recommendations to improve the quality of instruction. 3. Review the poultry outreach opportunities and make recommendations for their improvement. 4. Present a seminar on poultry nutrition to the faculty and representatives of the poultry industry and provincial agencies.

RECOMMENDATION/APPROVAL *

- 1. DEPARTMENT CHAIR J. J. I. Khan DATE 11 Dec. 85
- 2. DEAN OF FACULTY OF RESEARCH STATION DIR. S. Basit Ak. Shah DATE 11/12/85
- 3. UNIVERSITY DIRECTOR or REGISTRAR J. J. I. Khan DATE 14. 12. 85.
- 4. TIPAN TEAM SPECIALIST Mansur Usman DATE Dec 14 1985
- 5. TIPAN TEAM LEADER E. P. [Signature] DATE Dec. 14, 1985
- 6. TIPAN Project Officer [Signature] DATE 12/15/85

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TIPAN
REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE
NWFP Agricultural University

DATE OF REQUEST 11/12/85 DEPARTMENT/UNIT Animal Husbandry

TYPE OF ASSISTANCE REQUESTED Animal Health Specialist - Veterinarian

PREFERRED TIME PERIOD Spring 1986 One Month

STATEMENT OF NEED Dr. Borje Gustafsson, a veterinarian, was the principal architect of the merger of the animal research units in the NWFP with the university. It is desirable to have a veterinarian return to assist in implementation of this design. Most of the personnel within these units are also veterinarians. There is also a need to strengthen the instructional program on animal health at the NWFAU.

PROPOSED SCOPE OF WORK 1. Evaluate progress toward merger of the animal research units with the university.

2. Assist with the development of the Animal Hygiene course and conduct lectures on animal diseases.

3. Develop a linkage with the artificial insemination center at Surezai to facilitate its use by the university for teaching, research and outreach.

4. Present a seminar on animal health relevant to the NWFP.

RECOMMENDATION/APPROVAL

1. DEPARTMENT CHAIR A. J. Ali DATE 11 Dec. 85

2. DEAN OF FACULTY or RESEARCH STATION DIR. S. Basit Ali DATE 11/12/85

3. UNIVERSITY DIRECTOR or REGISTRAR A. J. Ali DATE 14.12.85

4. TIPAN TEAM SPECIALIST Mart Waernam DATE Dec 12 1985

5. TIPAN TEAM LEADER E. P. ... DATE Dec. 14, 1985

6. TIPAN Project Officer ... DATE 12/15/85

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TIPAN

REQUEST FOR SHORT-TERM TECHNICAL ASSISTANCE

NWFP Agricultural University

DATE OF REQUEST 12/12/85 DEPARTMENT/UNIT Animal Husbandry

TYPE OF ASSISTANCE REQUESTED Livestock Facility Design Specialist

PREFERRED TIME PERIOD February 1986 - One Month

STATEMENT OF NEED Dairy, Poultry and small ruminant teaching and research facilities are to be constructed. In order to meet the needs of the university and local climactic conditions, special plans must be drawn.

PROPOSED SCOPE OF WORK Assist SOM in the design of the livestock facilities appropriate to the needs of the A.U., the consultant is to work closely with the faculty of Animal Husbandry, Farm Manager, and Animal Husbandry Liaison Committee in developing this design, and location of the facilities. The facilities to be designed are for dairy cattle, poultry and sheep and goats.

RECOMMENDATION/APPROVAL*

1. DEPARTMENT CHAIR S. Basit Ag. Stud DATE 14/12/85
2. DEAN OF FACULTY or RESEARCH STATION DIR. S. Basit Ag. Stud DATE 14/12/85
3. UNIVERSITY DIRECTOR or REGISTRAR A. J. Phil DATE Dec 14, 85
4. TIPAN TEAM SPECIALIST Mark W... DATE Dec 14 1985
5. TIPAN TEAM LEADER E. P. ... DATE Dec. 14, 1985
6. TIPAN PROJECT OFFICER A. J. ... DATE 12/15/85

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TIPAN form ST-TA

N.W.F.F. AGRICULTURAL UNIVERSITY
PESHAWAR

OFFICE ORDER

No. 236 /Estt.

Dated 27/10/1985

The Syndicate in its meeting held on 5.9.85 approved the action of the Vice Chancellor in extending the period of the Chairmen of Departments from 11.2.85 to 4.9.85.

The Syndicate further approved the appointment of the following teachers as Chairmen of Departments/Director Institute for a period of 5 years w.e.f. 5.9.85.

<u>Name of Departments</u>	<u>Name of Professor OR Associate Professor recommended as Chairmen/Directors.</u>
Agronomy	- Prof. Mohammad Rafiq Khan
Entomology	- Prof. Mohammed Shahid
Food Technology	- Dean of the Faculty, as there is no Associate Prof. in this Deptt.
Horticulture	- Prof. Hafiz Inayatullah
P.B.G.	- Prof. Dr. Sher Hassan
✓ Animal Husbandry	- Prof. A. Karim Ali Shah
Agric. Economics etc.	- Prof. A. Jamil Siddiqi
English	- Dean of Faculty, as there is no Associate Professor in this Deptt.
Pak. Studies	- do -
Maths. Statistics and Physics	- do -
Institute of Development Studies	- Prof. Dr. Nurul Islam Mian
Plant Protection	- Prof. Dr. Rasool Hussain
Plant Pathology	- Under administrative control of Chairman of P.S.D.
Human Nutrition	- Under administrative control of Chairman of Agric. Chemistry.
Water Management	- Under administrative control of Chairman of Agric. Mechanization.
✓ Live Stock Management	- Prof. Dr. S. Iqbal Shah
Soil Science	Prof. Jehangir Khan Khattak

No. 3891 /A.U.P.

Registrar

Copy to:-

1. All Chairmen of Deptts/Director, I. Inst.
2. Director Finance
3. P/Files
4. Pay Bill Asstt.
5. Concerned Officials
6. Accountant

Registrar

Atta