



Dairy Science Park

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Dairy Science Park

401-A, City Tower, University Road Peshawar, Peshawar
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3rd International Workshop on Dairy Science Park Nov 16-18, 2015



Senior Minister Khyber Pakhtunkhwa Mr Inayatullah Khan chaired the inaugural session



District Mayor Peshawar, Arbab Asim Khan getting shield from Prof M S Qureshi and Prof Zafar Iqbal on day 2



Special Assistant to the Chief Minister on Law (Mr Arif Yousaf) and Livestock (Mr Mohibullah Khan), Mr Jaffar Shah MPA, Prof ZA Swati Vice Chancellor and Prof M S Qureshi Dean co-chairing the concluding session

Dairy Science Park

A society registered under Societies' Registration Act XXI of 1860, (Reg No.4582/5/8589 dated 2-7-2015) by Registrar Joint Stock Companies and Societies, Government of Khyber Pakhtunkhwa, Peshawar, Pakistan.

VISION

To support the people of the war-hit Khyber Pakhtunkhwa, FATA and the adjoining Regions in Afghanistan, Tajikistan and China, through self-employment for youth and hygienic food production for the people in partnership with SDGs of the United Nations

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Message of the Founder

I remember my first consultation with Mr Abdur Rhman Ilyas during 2010 in Egypt, who suggested the name Dairy Science Park to be given for the struggle to utilize the livestock resources of the region for prosperity of the people. Interest of Sardar Mehtab Ahmad Khan, Governor during his tenure-ship as Chief Minister during 1998 motivated me to continue my struggle.



Various provincial dignitaries supported this sacred mission and Mr Inayatullah Khan took the message very seriously and pursued it through release of ADP funds and support of an autonomous DSP Board. He was especially comfortable with the idea of self-accountability through an Endowment Fund, needing no operational fund.

I am thankful to my faculty members, students and staff for their constant support. Especially my children and wife had to bear the tremendous stress and financial burden during the execution process. I consider it as a sacred mission and present it as a gift before the people of the Region, especially those hit with poverty, illiteracy and food insecurity.

I envision KP, FATA and the adjoining regions of Afghanistan, Tajikistan and China as a hub of livestock and poultry entrepreneurs backed up by quality control, R&D and marketing support organizations, with prosperous people desired under 2030 Agenda for sustainable development of the United Nations.

A handwritten signature in blue ink, appearing to read "M Subhan Qureshi".

(Prof M Subhan Qureshi)

Chronological developments

1. Livestock Development Plan was prepared on advice of the Ex-Chief Minister/present Governor Khyber Pakhtunkhwa, Sardar Mahtab Ahmad Khan Abbasi, communicated vide letter dated 30th November, 1998, for productive utilization of provincial livestock resources targeted at export.

2. The Plan was updated to Dairy Science Park through three successive international workshops during 2011, 2013 and 2015 at the University of Agriculture Peshawar.

3. The President Khyber Pakhtunkhwa Chamber of Commerce and Industries (KPCCI), Mr Zahidullah Shinwari approved the Standing Committee on Livestock for integrating various stakeholders.

4. The Minister for Agriculture, Sardar Ikramullah Gandapur inaugurated Livestock Business Facilitation Desk at KPCCI.

5. The Special Assistant to Chief Minister on Law, Mr Arif Yousaf supported legislative reforms to protect interest of the stakeholders during the process of industrialization. He commended acceptance of the Park by the United Nations for two sustainable goals of self-employment for the youth and hygienic food production for the people of KP and FATA. He advised for perusal of the SDGs at the Cell established at the Provincial Assembly of Khyber Pakhtunkhwa.

6. The Special Assistant to Chief Minister on Livestock, Mr Mohibullah Khan supported the plan for preparing the province for International Halal Meat Market and advised for development of a policy to address the current challenges.

7. The DSP head office/Display Center has been established at the City Towers, University Road Peshawar and the Park has been registered under Societies' Registration Act XXI of 1860 to facilitate entrepreneurship development for young graduates and provide market linkages for the local livestock and poultry production system. An MoU was signed with the Khyber Institute of Veterinary Sciences, Peshawar for collaboration in livestock entrepreneurship development (LED).

8. A collaborative arrangement was agreed with CEBG, Pakistan Army for utilizing the semen and embryos from elite dairy and beef ruminants at the medium sized farms in the province and FATA.

9. A collaboration on "Biorisk Management" is with process with the Sandia National Laboratories USA. A four-members delegation of the Park visited the Netherlands in March 2015 for launching the initiative and a 12-members delegation is visiting Brussels Belgium during January 2015 to develop Pakistan Biorisk Curriculum for Universities in the Pakistan and the Region.

10. A letter of intent was signed with the Chinese Academy of Agricultural Sciences for collaborative research on development and trade of Halal products.

11. Focal Points have been appointed for the Park for Australia, China, India, Pakistan, Afghanistan, Turkey, Netherlands, USA and Canada.

12. The Governor Khyber Pakhtunkhwa has appreciated the mission and placed the Dairy Science Park on his official profile at FATA-DA <http://fatada.gov.pk/about-us/governers-profile/>.

13. The Senior Minister for Local Government and Rural Development, Mr Inayatullah Khan has allocated Rs.200 million for establishing a model slaughter house in consultation with the Park.

14. The Senior Minister urged upon efficient utilization of the natural resource available in the Khyber Pakhtunkhwa province for the welfare of the people. The gap between the policy makers, academia and industry was highlighted. The Dairy Science Park (DSP) was declared as a platform to bridge up this gap. The Senior Minister advised that the amount of Rs 200 million released by the Local Government, Election and Rural Development Department KP for the establishment of Slaughter house at Peshawar may be utilized in appropriate consultation with the DSP experts.

15. The Senior Minister advised that an autonomous DSP Authority may be established under the supervision eminent academicians, and representatives of the Government, industry, farmers and civil society, focused at the burning issues of self-employment and hygienic food production. The Authority will provide an infrastructure for Business Incubation Centre (Rs.250 million) to promote industrial research under an Endowment Fund (Rs.250 million). This is line with the HEC vision of “facilitating higher educational institutions to develop entrepreneurship capacities and mindsets of youth”. Follow up meeting will be held to process the case.

Third International Workshop on Dairy Science Park

The Third International Workshop was held on November 16-18, 2015 at the University of Agriculture Peshawar, in continuation to the first two workshops held on November 21-23, 2011 and November 18-20-2013. All the three workshops were attended by 500+ participants.

The Senior Minister Mr. Inayatullah Khan inaugurated the Third Workshop flanked by Prof Zahoor Ahmad Swati, Vice Chancellor of the University of Agriculture Peshawar and Prof M Subhan Qureshi, Dean FAHVS/Chief Patron DSP. Academic, government and industry leaders, policy makers and farmers, from all four province of the country, Azad Jammu and Kashmir, Afghanistan and Turkey, participated in the event.

The Senior Minister and Vice Chancellor expressed their appreciation that that renowned scientists from within the country and abroad attended the event, focused on a burning issue of self-employment and hygienic food production in the region. Prof. M.

Subhan Qureshi welcomed all the delegates and thanked them for sparing their valuable time to attend the event. The Dean also thanked the organizers and then presented a brief overview of the DSP.

The idea of DSP was envisaged by Prof. M. Subhan Qureshi during Industrial Biotechnology Conference in Egypt during his in-depth discussion with Mr Abdur Rahman Ilyas ICRISAT India, to exploit the potential of Livestock Resources in the war-and flood-hit zones of the Northern Pakistan. To materialize this dream the first international DS Parks was held on November 21-23, 2011 to sensitize the stakeholders from the public and private sectors of the country for productive utilization of livestock resources. SMEDA was consulted at various phases of the Park. A presentation was made before the Khyber Pakhtunkhwa Chamber of Commerce and Industry which led to establishment of a Standing Committee on Livestock at KPCCI, a business desk at SMEDA and a working group on livestock at the University of Agriculture Peshawar.

The Second International Workshop on DS Park, November 18-20, was focused on the meat industry with the aim to produce hygienic and nutritious meat for the local and International Halal Market. He thanked the Higher Education Commission for sponsoring the first three events including the current workshop. He then explained the aim of the third conference and mentioned that it is right time to start business incubation on the basis of the ideas that generates in the research Institutions in-order to support the industry and create self-employment. In this regard the production of hygienic meat and milk can play a key role.

The DSP has established collaboration with Sandia National Laboratories to reduce risk to human health from animal industry. Moreover, collaboration has been established with China Academy of Science to promote collaborative research for industrial support and exchange of scholars under the China Pakistan Economic Corridor (CPEC).

Prof. Qureshi proposed a business incubation center costing sum of 250 million for infrastructure in addition to Rs.250 million as a Endowment Fund. He recommended development of quality control standards at farms, clinics, processing and market places. Endowment fund would be utilized for developing/replicating feasibility models and revitalizing the underutilized assets in public and private sectors. The Endowment Fund will support industrial research projects under the Business Incubation Center.

The Vice Chancellor applauded the presence of so many eminent scientists from Pakistan and other brotherly countries which guarantees that many useful idea will be generated and the gap between academia, industry and producers will be bridged up. The worthy Vice Chancellor UAP welcomed and thanked the delegates, especially those coming from Turkey and Afghanistan. He expected that the technical sessions will come up with new ideas will be for the uplift of the livestock industry. He thanks the organizers for successfully arranging such a mega event which has honored the University of Agriculture Peshawar in a big way. The worthy VC also stressed that we have wasted 68 years, and despite of that fact that our homeland has one of the world best natural resources including those of agriculture land and livestock species but we failed to exploit those resources for the betterment of our people. He concluded his speech with the hope that the government will make policy that could enable us to utilize our agriculture resources optimally.

Mr Inayatullah Khan, the Senior Minister/Minister Local Government, Elections and Rural Development endorsed the comments of the worthy VC and Dean that our natural resource could not be utilized so for the uplift of the people, and further said that the province of KP has the potential for generating 30,000 MW of hydal power; 600 million barrels of crude oil; 10 trillion cubic feet of natural gas; and millions of acre of barren land in the Southern districts. In addition, the province can generate a lot of revenue from tourism.

The Senior Minister shared his concern over the failure to exploit the resource base. However, we do not need to spread disappointment and fear in the youth, rather we need to work hard and device policy for utilization of resources by bridging the gap between the policy maker, academia and industry. The Senior Minister declared the Dairy Science Park as the bridge to fill up the gap. The Senior Mister informed the participants that his ministry has allocated a sum of 200 million for the establishment of model slaughter house. He endorsed the idea of establishment of autonomous DSP Board which will be run by immanent scientist, industrialists and farmers' representatives and the board will work as an independent organization.

In his concluding remarks the Senior Minister praised Prof M S Qureshi for his great vision for development of livestock sector and advised for a follow up meeting the establishment of DSP Board, Dairy Science Park Act and streamlining the slaughter house project within two week time. The District Nazim (Mayor), Arbab Asim Khan chaired second technical session on the second day of the three days workshop. He appreciated the theme of the workshop covering self-employment and hygienic food production in the region and desired cooperation under the Park for entrepreneurship of youth especially the youth in quails farming. He advised the Dairy Science Park organize to develop standard operating procedures for livestock farming, products processing and marketing for application in the field. He desired training of butchers in hygienic meat production and marketing. He also desired training of local government elected representatives to exploit the indigenous resources in an efficient way.

Mr Mohibullah Khan Special Assistant to Chief Minister on Livestock advised for preparation of a livestock policy for the province. He chaired concluding session of the Workshop along with Mr Arif Yousaf Special Assistant to Chief Minister on Law and Mr Jaffar Shah Member Public Accounts Committee. Mr Arif Yousaf highlighted the importance of sustainable development goals (SDGs) and was pleased to know about selection of the Dairy Science Park by the United Nations as a partner for SDGs. He was interested in the Dairy Science Park Act KP and asked the organizers to come up with the draft act for further processing to provide relief to the partners of the Dairy Science Park, creating an enabling environment for investment in the province.

Seven technical sessions were held comprising: i) Livestock Development and Business Incubation; ii) One Health; iii) Feed and Food Safety; iv) Animal Health and Technology; v) Poultry Science and; vi) Prospective Dairy Farming and Dairy Products in Pakistan. The Sessions were chaired by Prof M Sarwawr, Prof Zafar Iqbal, Prof Ahrar Khan and Prof Anas Sarwar from UA Faisalabad, Prof Ashraf from UVAS Lahore, Prof Younas Rana from CVS Jhang, Dr Arfan from PMAS Arid University Rawalpindi, Dr Iqbal Khattak from VRI, Prof M Afzal AUP, and Dr Mithat from Turkey. Delegates from ILRI, L&DD, COMSATS, SMEDA, AJKU, Romer Labs, KMU and AWKUM participated. HEC was represented by Mr Nasir Shah Director QAA.

Dairy Science Park signed a memorandum of understanding with Selcuk University, Konya, Turkey and another with Mevlana Exchange Program, Turkey. The Turkish side was represented by Dr Mithat Direk and Pakistan was represented by Mr Arif Yousaf Special Assistant to the Chief Minister KP (Law) and Prof Dr M Subhan Qureshi, Dean FAHVS, UA Peshawar. President DSP Irfanul Haq Qureshi, CTA Prof Sarzamin Khan, Prof Mansoor Khattak, Dr Asif and Mr Intizar Ali PTI and Mr Zafar Hussain Feed Industry also attended the MoU signing ceremony.

Under the Mevlana Exchange Program, the two organizations agreed on collaboration, covering student and academic staff Exchange to concur with the principles and conditions set forth in Program to provide solutions to the issues highlighted under the Dairy Science Park. The MoU with Selcuk University will support self-employment models and hygienic food production utilizing the livestock resources. Collaborative research will be launched in livestock and poultry production and health for control of diseases and reduction of production cost per unit. Market access will be provided to the products of both the regions.

As suggested by Dr Mithat Direk, the biannual International Workshops on the Dairy Science Park, will be jointly organized in continuation with those held during the years 2011, 2013, and 2015. The suggested venue for the 2017 conference is Istanbul.

RECOMMENDATIONS

1. The Senior Minister urged upon efficient utilization of the natural resource available in the Khyber Pakhtunkhwa province for the welfare of the people. The gap between the policy makers, academia and industry was highlighted. The Dairy Science Park (DSP) was declared as a platform to bridge up this gap. The Senior Minister advised that the amount of Rs 200 million released by the Local Government, Election and Rural Development Department KP for the establishment of Slaughter house at Peshawar may be utilized in appropriate consultation with the DSP experts.
2. The Senior Minister advised that an autonomous DSP board may be established under the supervision eminent academicians, and representatives of the Government, industry, farmers and civil society, focused at the burning issues of self-employment and hygienic food production. The Board will provide an infrastructure for Business Incubation Centre (Rs.250 million) to promote industrial research under an Endowment Fund (Rs.250 million). This is line with the HEC vision of “facilitating higher educational institutions to develop entrepreneurship capacities and mindsets of youth”. Follow up meeting will be held to process the case.
3. The Special Assistant to the Chief Minister (Law) Khyber Pakhtunkhwa appreciated selection of the DS Park for partnership by the United Nations under Sustainable Development Goals for self-employment of the youth and hygienic food production for the people of Khyber Pakhtunkhwa and FATA. He informed that he is chairing the committee on SDGs in the province and would include DSP in the onward consultation process.

4. DS Park signed a memorandum of understanding with Selcuk University, Konya, Turkey and another with Mevlana Exchange Program, Turkey. The Turkish side was represented by Dr Mithat Direk and Pakistan was represented by Mr Arif Yousaf Special Assistant to the Chief Minister Khyber Pakhtunkhwa and Prof Dr M Subhan Qureshi, Dean FAHVS, UA Peshawar. The former MoU will facilitate exchange of staff and students Pakistani and Turkish Universities and the later will facilitate collaborative research and industrialization process in collaboration with Konya Teknokent (Selcuk University, Technopark).
5. MoUs were signed by the Vice Chancellor, The University of Agriculture Peshawar for academic linkages, with the two Turkish organizations.
6. The aim of third international conference was to formalize the business incubation process and the participating experts would be consulted to move forward in this direction.
7. The District Mayor Peshawar advised for initiating an MoU with the DS Park to establish youth entrepreneurship, develop quality standards for livestock farms, processing and marketing channels and train the elected representatives in utilizing natural resources for employment generation and food production. The Mayor appreciated the efforts of the University in development business models like quails production and helping the meat processing and marketing partners in adopting hygienic standards. He advised for developing quality standards and training of commercial farmers, butchers and industry workers to protect the environment and ensure access of the people to hygienic meat, eggs and milk. It will help in development of entrepreneurship for the youth and preparation of the region for Halal food local consumption and export. Research finding of FAHVS and elsewhere, would be utilized for this purpose.
8. The collaboration initiated by DS Park with the Sandia National Laboratory USA, Chinese Academy of Agricultural Sciences, CEBG of Pakistan Army and nine countries through Focal Points was appreciated. These linkages will be utilized for achieving objectives of the DS Park.
9. Livestock Advisor appreciated the efforts of the organizers in conducting such an auspicious conference to discuss the issues of the Livestock Sector. He urged upon an enhanced collaboration among the Directorates General Livestock and Dairy Development Department (Extension and Research Wings), the Faculty of Animal Husbandry and Veterinary Sciences, UA Peshawar and the farming/business community. He urged on development of a livestock policy to respond to the prevailing issues.
10. Dr Mithat Direk offered his support to organize the Fourth International Workshop on Dairy Science Park at Istanbul during November 2017 which was welcomed by the participants with thanks.

The Roadmap

The Roadmap of DS Park has been prepared in line under the following policy guidelines:

- United Nations - Transforming our world: the 2030 Agenda for Sustainable Development
- Pakistan Vision 2015, Government of Pakistan
- Industrial Policy Khyber Pakhtunkhwa 2016

1. Dairy Science Park (The Society)

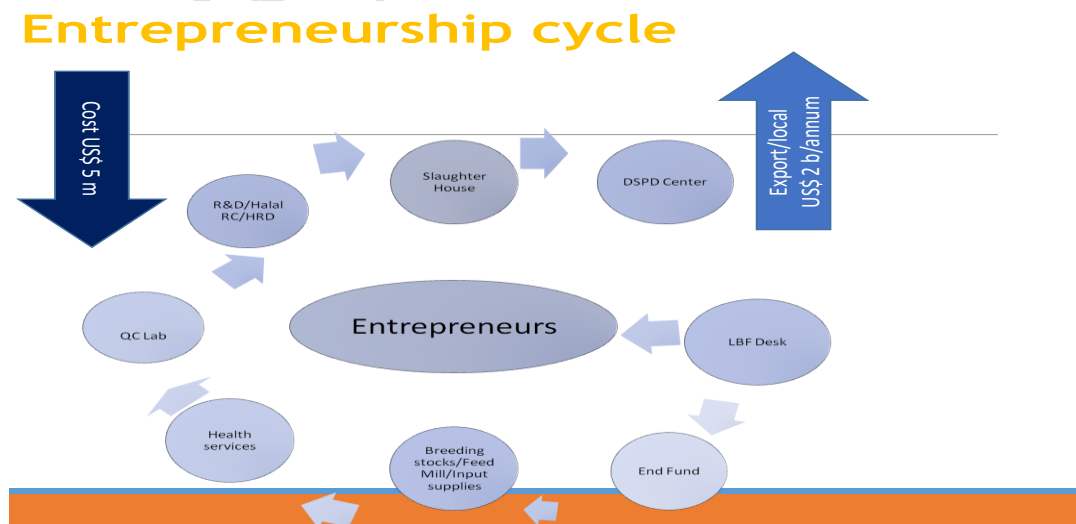
A society emerged at the University of Agriculture, Peshawar, Pakistan, registered under Societies' Registration Act XXI of 1860, Government of Khyber Pakhtunkhwa supporting self-employment and hygienic food production in partnership with UN SDGs (Requirements: i. Grant Rs.10 million; ii. MoU with LGR&RD for QC and HRD support)

2. DSP (Academic Component)

Establishment of a Business Incubation Center for Dairy Science Park at the University of Agriculture Peshawar for industrial research, quality control, Halal and legislative support to the entrepreneurs and offices for the DSP Society and DSP Authority (Requirement: Rs.250 million GoKP, HEC grant)

3. DSP Authority (Development Component)

Establishment of a Dairy Science Park Authority for developing the province as a Halal Meat Export Base utilizing the manpower, research and development institutions and unutilized/under utilized public and private assets through PPP, DSP Veterinary Clinics and Marketing Centers, Agri-Marts, franchise developments, commercial companies, etc (Requirement: i. KP DSPA Act; ii. Endowment Fund Rs.250 million)



Requirements (Rs.500 million)

ACADEMIC BLOCK

- ▶ **Quality Control Laboratories complex:**
 - ▶ Physiology, Biochemistry and Pharmacology
 - ▶ Pathobiology
 - ▶ Theriogenology and cell culture
 - ▶ Meat and Dairy Science
 - ▶ Poultry Science
- ▶ **Business Incubation Center** (with display and business offices for the partners; Business Facilitation Centers in the field)
- ▶ **Halal Research Center** (with offices, conference halls and online facilities)
- ▶ **Students facilities:** Common rooms for boys and girls, class rooms, cafeteria
- ▶ **Miscellaneous:** Offices, Library, video conference room, computer lab, meeting halls, business offices

FARM BLOCK

- ▶ **Meat Technology Center**
- ▶ **Emergency Response and Biorisk Management Center** (at University Veterinary Hospital)
- ▶ **Lab Animals House**
- ▶ **Livestock and poultry sheds**
- ▶ **Fisheries, wildlife and pets facilities**

ENDOWMENT FUND

Team

Board of Governors

1. Chief Patron Prof M. Subhan Qureshi
2. Chief Executive Engr. Irfan ul Haq Qureshi
3. Executive Director Mr. Zafar Hussain Paracha
4. General Secretary Mr. Kamran Khan
5. Chief Technical Advisor Prof Sarzamin Khan
6. Director Farming Innovations Mr Asim Ijaz
7. Chief Veterinary Consultant Dr Rajwali Khan
8. Veterinary Consultant Dr. Anwar Shah
9. Veterinary Consultant Muhammad Ullah

Board of Advisors

1. Mr Zahidullah Shinwari KPCCI
2. Prof Khan Bahadur Marwat SBBU Sheringal
3. Prof KB Mirbahar SBBUVAS Sakrand
4. Dr Asad Sultan Poultry Nutrition/PRO
5. Prof Muhammad Sarwar Animal Nutrition
6. Prof Zafar Iqbal Veterinary Science
7. Dr Ahmad Naveed Livestock Research
8. Dr Sher Muhamamd Livestock Extension
9. Prof Umer Sadique One Health
10. Nasir Shah Higher Education
11. Mr Farooq Shah NIM/PARD/HRD
12. Mr Javed Khattak SMEs' development
13. Wahid Mahmood Security
14. Mufti Naeem Bukhari Shaira

Panel of Experts

1. Dr Arshad Hashmi Business Incubation
2. M H Andrabi Biotech
3. Dr Khalid M Shouq Media
4. Prof A Rahman Meat Sci
5. Sontakke Umesh Balaji Animal Nutrition
6. MS Tufail Fodders
7. Dr Nazir Ahmad Khan Animal Nutrition
8. SH Raza Livestock Ext
9. Arshad Zahoor Public Health
10. S Murad Sheep
11. Dr Zahoor ul Hassan Pathology
12. Shoaib Sultan Feed Tech
13. Dr Munibullah Yousafzai Epidemiology
14. AD Khan Ext & Comm
15. Mr Qayum Marwat IT
16. Dr Shakoor Ahmad QC
17. Asfandyar Khan Web Admin
18. Rashid Aman Entrepren
19. Dr Naila Chand Poultry Science
20. Dr Zubia Masood Fish
21. Dr Melissa Finley Biorisk Management
22. S Qureshi Halal Food

Focal points

1. Mr Tawheed Ali Afghanistan
2. Mr S Shafiullah Khan Australia
3. Mr Abdur Rahman Ilyas India
4. Dr Mithat Direk Turkey
5. Miss Olivia Ansenk Netherlands
6. Mr Riaz Hussain Canada
7. Dr Mushtaq A Memon USA
8. Mr Asim Ijaz Pakistan
9. Prof Gang Li China

Corporate Partners

1. Meat Park, Peshawar
2. Dairy Life, University Feed Mill
3. Mr Kamal Khan, silage industry
4. Reon Energy Solutions, Lahore
5. Ghazi Brothers, Lahore

Development partners

1. UNDESA, United Nations, New York
2. Khyber Institute of Veterinary Sciences, Peshawar
3. Konya Seker, Turkey
4. SBBU University Sheringal, Dir
5. The University of Agriculture, Peshawar
6. Khyber Medical University Peshawar
7. Small and Medium Enterprises Development Authority
8. Veterinary Research Institute, Peshawar

Funding status

The Society has occupied an office at 401-A, City Towers, University Road Peshawar and the rent and maintenance of office are sponsored by the Chief Executive and Executive Director. The Chief Executive is also financing website of the DSP, registration of the Society and contacts with potential partners for registration and linkages with the national and international partners. The International Workshop series is sponsored through HEC grants, industrial exhibition of private companies and registration. The tours to Amsterdam and Brussels, for formulating Biorisk Management Initiative are sponsored by Sandia National Laboratory USA. The Senior Minister LGE&RD has approved proposal of the DSP for establishing a model slaughter house valuing Rs.200 million at Peshawar. The DSP Academic Component and DSP Authority valuing Rs.500 million were agreed in principle. Other development partners and international agencies are supporting the activities of the Dairy Science Park on case to case basis and the Society is looking for more partnership to achieve the greater goals of generating self-employment for the youth and hygienic food production for the people of the Region in partnership with the United Nations' SDGs.