



# PROJECT REPORT 2021-23

CAPACITY BUILDING OF DAIRY FARMERS
AND INDUSTRY STAKEHOLDERS ON
MILK VALUE CHAIN

# DEPARTMENT OF DAIRY TECHNOLOGY







# PROJECT REPORT

Duration: FY 2021-2023 (02 Years)

Total Cost: 70.00 Million

# Department of Dairy Technology

# Capacity Building of Dairy Farmers and Industry Stakeholders on Milk Value Chain



Prof. Dr. Nasim Ahmed S.I Vice Chancellor UVAS

Dairy sector is all about production, cost, and quality of milk and value-added milk products. University of Veterinary and Animal sciences is continuously striving to define methods to improve the return over investment of commercial and livelihood of small-scale dairy holders. High quality milk production with less impact on environment is the demand of country. I believe there is no better place than UVAS to learn these innovations and best practices.

Pakistan is an agricultural country where this sector contributes about one fifth in country's GDP and is the backbone of the rural economy as it provides employment to 42% workforce of the country. Livestock is the largest shareholder in the agriculture with enormous contribution of 60.1% in the agricultural GDP. It can be appraised from the fact that a rural population of nearly 30-35 million is directly dependent on livestock farming for their livelihoods (Economic Survey of Pakistan 2020-21). Pakistan is the fourth largest milk producing country in the world (FAO 2019) and majority of milk is produced by small dairy farmers (estimated to be over 8 million farmers).

Capacity building at farm-level for milk value addition can be a powerful instrument for raising the income of small-scale farming families. Milk processing is an art that calls for knowledge on how to combine milk into more lucrative goods. Value addition will increase milk value and reduce milk losses. A skilled and trained workforce in the field can contribute significantly to the development of the dairy farmers and milk value addition. We acknowledge Livestock & Dairy Development Department Govt. of Punjab for providing funds of worth RS 70.00 Million for this project.



Dr. Muhammad Junaid Project Director

# Objectives of the Project

The intensive training modules have been aimed to train veterinary professional, dairy farmers and industry stakeholders on milk value chain.

- 1. To drive the opportunity among dairy stakeholders for milk value chain.
- 2. To advocate knowledge of advance technologies and machinery for milk value addition and get cutting edge advantage.
- 3. Capacity building on milk processing technologies for improving dairy products quality and shelf life.
- 4. To enhance capabilities of veterinary professional, dairy farmers and industry stakeholders regarding modalities and requirements of certifications for quality assurance of milk product through extensive trainings.











## **Mission Statement**

It is critical to have a personal, professional, and safe learning environment in order to successfully learn new dairy skills. The Dept of dairy technology, which offers a combination of professional and enthusiastic trainers, exceptional facilities, and learning materials, is the greatest, place to find these circumstances while also preparing you for new skills. We believe in transferring abilities that can be utilized freely in the workplace, based on the participant's own particular learning objectives.

# Vision

Through the concept of Learning by Doing, each participant will gain new abilities and have unique training experience. The Department of Dairy Technology enhance and grow its position in hands-on learning in this way. The department also shares knowledge and skills with a variety of research and business partners.

### Training Modules

- 1. Dairy Laboratory Analysis Skills
- 2. Entrepreneurship in Dairy Industry
- 3. Pasteurized & Flavored Milk Technologies
- 4. Hands-on Cheese Making
- 5. Frozen Dairy & Fat Rich Dairy Products
- 6. Intervention in consumer awareness
- 7. Efficient Milking Practices
- 8. Traceability of Milk & value-added dairy products
- 9. Halal & Food Safety Systems
- 10. Frozen & Fermented Dairy Products
- 11. Fat Rich Dairy products

# Target Audience

Veterinary Professionals of L&DD

Preference was given to Field / Extension veterinarian

Small Scale Milk Processors Literate, Progressive farmers & Entrepreneurs, Members of Dairy Farmers & Industry Associations

Industry Stakeholders Skilled & Semi Skilled, Literate Industry Workers

Laboratory Personnel Veterinarians, Literate farmers, Industry personnel, Members of Dairy Farmers & Industry Associations

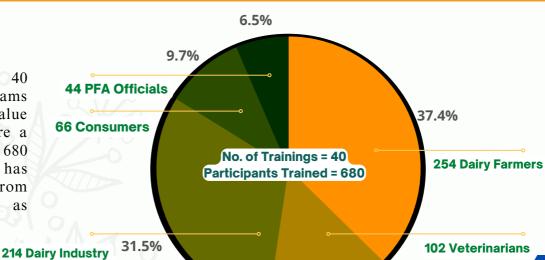
Consumers

Literate Consumer (included women & Children) for understanding of milk products categorization

# Methodology

# A. Trainings

Conducted 40 Training Programs on Milk Value Addition, where a total of 680 participants has been trained from various fields as shown









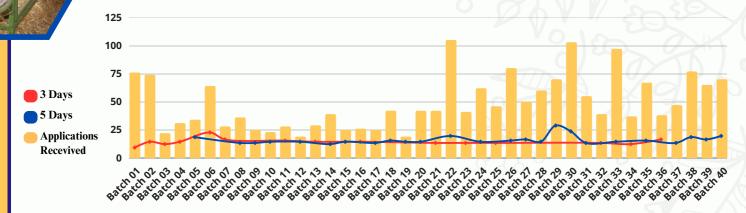
**Personnel, Entrepreneurs** 

)2

15%



# Applicants vs Shortlisted Participants



# Participants Training Feedback

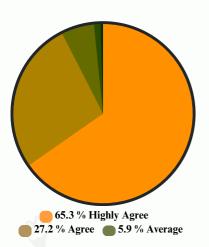


Fig.1: Did the course content meet your expectations?

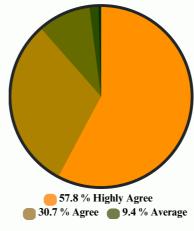


Fig.2: Training received was adequate for my position?

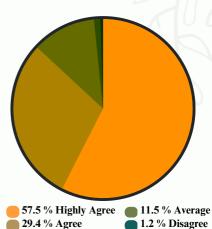


Fig.3: Can you practically apply the course material to your daily work situations?

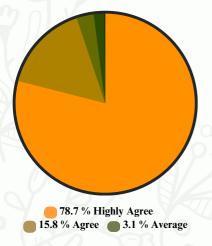


Fig.4: The food and dining staff was courteous?

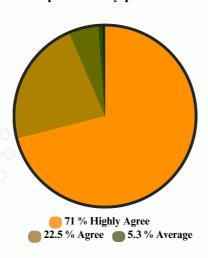


Fig.5: Mentoring was provided in a timely manner?

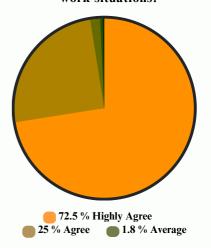


Fig.6: How do you rate the training overall?







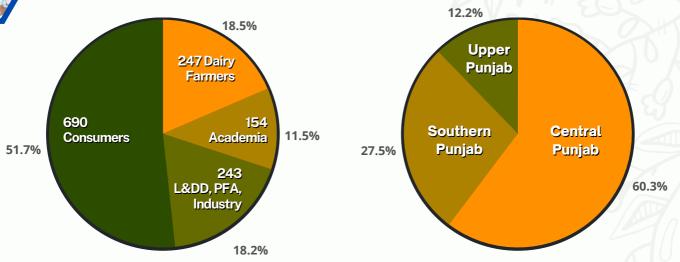


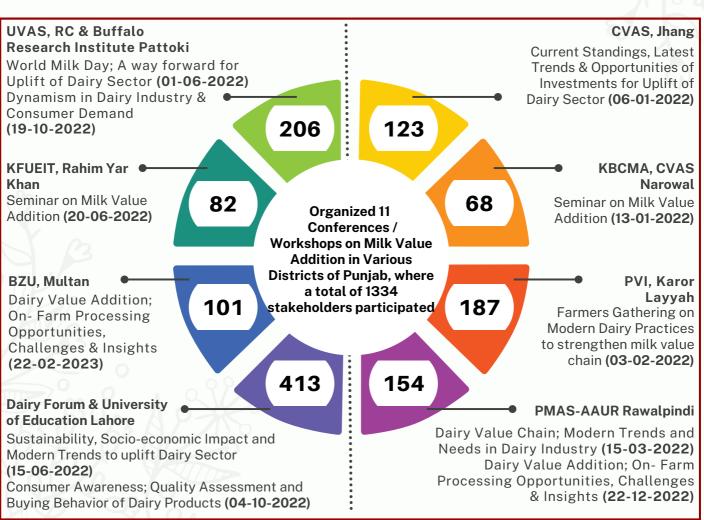




### B. Conferences / Outreach Activities

Seminars, conferences, workshops & farmers gathering methodized under Capacity Building Project %age wise (Punjab)















# C. Digital Repository Achievements



https://youtu.be/oEVpeKbjim8



https://youtu.be/qr6gcZgHLgg



https://youtu.be/9gkMhzhpLrl



https://youtu.be/5lt\_EoAsz34



https://youtu.be/gFF1MTPrXBo



https://youtu.be/tbbVAHuWtM8



https://youtu.be/L10rUIZRFBo



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https://youtu.be/oEVpeKbjim8



https://youtu.be/oEVpeKbjim8











# Outcome / Impact of Trainings

08 Entrepreneurs started new dairy setups

07 Companies benefited for target market and bridged the gap among manufacturers, producer, processor & regulatory

17 Allies from academia, dairy farmer associations, certification & regulatory bodies and social media/ news coverage

08 Processing setups extended their businesses in milk value addition



# Participants Module Assessment (Batch 15-40)

Table. Participants score (out of 10) before and after training

Module Title	N	Before	After	p-value
Module 1 (Dairy Laboratory Analysis Skills)	49	5.48 <sup>b</sup> ± 0.25	8.29° ± 0.15	< 0.0001
Module 2 (Entrepreneurship in Dairy Industry)	61	4.69 <sup>b</sup> ± 0.19	$7.67^{a} \pm 0.18$	< 0.0001
Module 3 (Pasteurized and Flavored Milk)	77	5.09 <sup>b</sup> ± 0.17	8.00° ± 0.14	< 0.0001
Module 4 (Cheese Making)	83	5.59 <sup>b</sup> ± 0.19	7.92° ± 0.13	< 0.0001
Module 5 (Frozen and Fat Rich Dairy Products)	35	4.91 <sup>b</sup> ± 0.26	7.69° ± 0.22	< 0.0001
Module 6 (Food Safety)	37	5.30 <sup>b</sup> ± 0.28	8.05° ± 0.18	< 0.0001
Module 7 (Consumer Awareness)	29	4.86 <sup>b</sup> ± 0.25	7.38° ± 0.21	< 0.0001
Module 8 (Efficient Milking Practices)	30	$6.00^{b} \pm 0.35$	8.17° ± 0.30	< 0.0001
Module 9 (Fat Rich Dairy Products)	17	5.18 <sup>b</sup> ± 0.35	8.71° ± 0.17	< 0.0001
Module 10 (Frozen & Fermented Dairy Products)	30	4.20 <sup>b</sup> ± 0.22	6.73° ± 0.11	< 0.0001
Module 11 (Milk Handling & Traceability during Storage and Transportation)	18	6.61 <sup>b</sup> ± 0.66	8.61 <sup>a</sup> ± 0.38	< 0.0001

Data on participants score (out of 10) are presented as least square mean ± standard errors

Superscripts on different means within row differ significantly at  $p \le 0.05$ 













Sr. No.	Name	Brand Name	Impact	Logo
1.	Mr. Umair Tauqeer (CEO)	Pakistan National Dairies- Kasur	Installation of a pasteurization plant, followed by the production of Value-added Dairy products	AK NATIONAL DAIRIE
2.	Mr. Rehan Sheikh (CEO)	Nabipur Dairy Farm- Nankana	Commercial Dairy Farm Established, followed by the production of Value- added Dairy products	Service Servic
3.	Mr. Kamran Khan (CEO)	Royal Dairies- Peshawar	Kulfi Production Started	ROYAL
4.	Mr. Asim Shehzad- Shop Owner	Saffron Dairy Products- Layyah	Kulfi and Flavored Milk production started	Saffron
5.	Mr. Zia Ali Shaukat (CEO)	Puro Fresh- Lahore	Flavored Milk Production Started	Reesh
6.	Mr. Muhammad Shahid- Owner	Shahid Milk Shop- Lahore	Rabri, Kulfi, Flavored Milk & Desi Ghee production started	0300-807817
7.	Mr. Imran Saleh- CEO     Miss Tahira Saeed- CEO     Ms. Safia Zaib- CEO	Farmers Cheese     Making- Lahore     The Artisan Cheese     Factory- Lahore     Pakistan Northern     Cheese Making- Peshawar	Provided target market for consumer in Punjab and Northern areas of Pakistan	TOTAL CONTROL OF THE PARTY OF T
8.	Mr. Sajid Hanif- CEO     Mr. Ibrar Gujjar- CEO	Fill n Pack- Lahore     Dairy Machinery PK- Okara	Bridged the gap between farmers and local manufacturers	FillNPack  www.fillrpack.com/ DARY MACHINERY. www.dirgrenhiury.fd
9.	Mr. Amjad Islam- Shop Owner	Al- Rehman Milk Shop- Lahore	Started the production of value- added dairy products	
10.	Mr. Umar Farooq- Dairy Entrepreneur	Cremito- Lahore	Started making Dairy Ice- cream	CREMITO POPULATION Management Care













Sr. No.	Name	Brand Name	Impact	Logo
11.	Mr. Mazhar Iqbal	Ittehad Dairies & Zamzam Mart- Jhang	Provided target market for the consumers of Jhang	PAK NATIONAL DAIRES
12.	Mr. Rifaqat Anjum- Dairy Farmer / Entrepreneur	The Dairy Shop- Lahore	Launched Kulfi sales at 40 different sites in Lahore and production of value-added dairy products	MLK DE VOLTO POLICIO
13.	Dr. Zeeshan Shahid	Fazal Dairies- Muzaffargarh	Started the production of value- added dairy products	ROYAL
14.	Shakir Umer Gujjar- President     Dr. Muhammad Zubair- Manager Operations     Muhammad Muzammil- Vice President	Dairy and Cattle     Farmers Association     Pakistan Dairy     Association     Dairy, Agriculture,     Livestock, Fisheries     and Advanced     Technology	Capacity Enhancement of small- scale & Progressive Dairy Farmers in Punjab, Khyber Pakhtunkhwa and Sindh	Pakistan Dairy Association
15.	Mr. Shakeel- CEO	MooBell- Okara	Capacity Strengthening of existing Mozzarella and Cheddar cheese processing setup	MOZZARELLA duan
16.	Mr. Mustajab Ahmad- GM Quality & Production	Cakes & Bakes- Lahore	Collaboration in refresher courses and exchange of ideas among dairy community	Cakes Takes
17.	Dr. Muhammad Fiaz-Assistant Professor / Focal Person (Department of Livestock Production & Management)     Dr. Aneela Hameed-Chairperson (Department of Dairy Technology)     Dr. Adnan Khaliq-Assistant Professor (Department of Food Science & Technology)	Pir Mehar Ali Shah ARID Agriculture University Rawalpindi Bahauddin Zakariya University Multan Khawaja Fareed University of Engineering & Information Technology	Academic collaboration of Capacity Building Project in terms of spreading awareness to local dairy farmers and potential entrepreneurs of central, upper and south Punjab	Total Ville Control Ville Cont













Sr. No.	Name	Brand Name	Impact	Logo
18.	Mr. Nazakat ul Husnain- Entrepreneur	College of Veterinary & Animal Sciences Jhang	CVAS Jhang students under Entrepreneurship model launched Flavored Milk (Nutri Max) as an impact of Capacity Building Project trainings.	UNIVERSITY OF VETERBARY AND ANSMAL SCIENCES LAHORS
19.	Dr. Muhammad Qasim-CEO Mr. Muhammad Zubair-CEO Mr. Muhammad Ali-Auditor Mr. Junaid Kahloon-CEO Hafiz Rehan Nadeem	ACTS     Halal Research     Council     Bureau Veritas     A2Z Consultancy     National Alliance for Safe Food	Implementation and awareness of certification, halal and food safety programs	A2Z
20.	Dr. Khalid Mehmood     Dr. Muhammad Jassar Aftab	The Veterinary News     Wiews     Jassar Aftab News	Media Alliance for dissemination of news & updates over massive audience	SARAFTAB.O
21.	Mr. Kamran Ameen-CEO	Ameen Dairy Farm- Faisalabad	Started the production of value- added dairy products	Ameen
22.	Mr. Sarmad Basit	Shah Nosh- Lahore	Acquired technical knowledge, troubleshooting and increased sales by convincing potential cheese culture customers through Capacity Building Project training	SHAH NOSH EXOC SOCIOLE IN THE PURITURE
23.	Mr. Muhammad Waqar	Khalis Milk	Capacity strengthening of existing setup for better traditional Yoghurt making	Khalis
24.	Mr. Muhammad Azam	SDGs Academy Jhang	Provided a platform to local dairy farmers for on-site quality testing of raw milk by organizing Kissan Bethak in collaboration with Capacity Building Project and CVAS Jhang at Shakarganj Milk collection center	SDGs Academy shakarganj













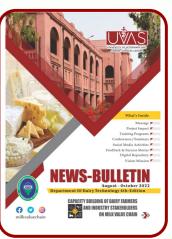
Sr. No.	Name	Brand Name	Impact	Logo
25.	Mr. Naveed Ullah Khan	Rajbro Farms	Implemented milk quality testing at farm level and improved milk reception and dispatch practices	AJBRO FARMS
26.	Mr. Wasif Umer	Gujjar Dairy	Capacity strengthening of current setup for better traditional yoghurt, makhan, desi ghees making and fresh pouch milk sale at five outlets in Karachi	A CARROLLE PAR
27.	Punjab Food Authority	Capacity Building Project co in disseminating knowledge training participants as well Safety Management System through trainings and semina		
28.	Livestock & Dairy Development Department	Extension and field officials of Lⅅ Punjab & KPK are acting as master trainers in fields to instruct and train dairy farmers after Capacity Building Project trainings and seminars		

# News Bulletin, Alumni Books









Edition: 1 December 2021 to January 2022

Edition: 2
February to March 2022

Edition: 3 April to July 2022 Edition: 4
August to October
2022













### **Appreciations**



### Halal Research Council

February 07 , 2023

mmad Junaid Project Director Canacity Building on Milk Value Chain.

Subject: APPRECIATION FOR THE OUTSTANDING EFFORTS OF THE UVAS CAPACITY BUILDING PROJECTON MILK VALUE CHAIN

I would like to express my wholehearted thanks for all the great efforts of Capacity Building Project. This project is especially linked with the sectoral strategy of Livestock Govt. of Punjab. Currently small scale dairy farmers need sophisticated technologies that are used on a global scale to improve their productivity, quality& hands on skills. This initiative has stepped in to teach personals in accordance with worldwide standards that have higher quality attributes.

In this regard, Halal Research Council (HRC) is grateful to Project Directorand his team for joining hands with HRC as an Academia partner. We are proud of the university ties your team has built between academia, industry and dairy farmers, these are a testament to the lasting partnership between the sectors. We take great pleasure to be the part of capacity-building training that educate the necessary stakeholders. Furthermore, this sect-oral plan would prove to be the future horizon of Pakistan's dairy sector

Looking forward to extend mutual cooperation, please



39A Sunflower Society, J. Jober Town, Labore - Paystan, Ph. +92 42 3591 3096-8, Fax: +92 42 3530 3096 Hot line: +92 331 936 0000, E-mail: info@halalrc.org, Web: www.halalrc.org

DG (PFA)/DD(S&A)/2023/632-OFFICE OF THE DEPUTY DIRECTOR (S&A) PUNJAB FOOD AUTHORITY -C, NEW MUSLIM TOWN, LAHORE Dated: \_\_13.February, 2023

Prof. Dr. Nasim Ahmad (S.I.),

Chancellor, versity of Veterinary and Animal Sciences, Lahore.

ACKNOWLEDGEMENT ON PROJECT "CAPACITY BUILDING OF DAIRY FARMERS AND INDUSTRY STAKEHOLDERS ON MILK

Kindly, refer to the subject cited above.

Punjab Food Authority believes in providing easiness in all type of food and dairy businesses at every scale and promotes such initiatives which definitely incorporate towards safe and nutritious food and dairy products.

Capacity Building Project of dairy sector value addition trainings, goals oriented workshops and targeted awareness seminars will help to teach personnels in accordance with international best practices.

On the behalf of Punjab Food Authority, I extend my gratefulness as many PFA officials got trained on extensive dairy sector training modules and were also considered as trainers in most of the training programs. Punjab Food Authority always preferred to give awareness to whole community regarding food laws which are necessary for ensuring safe food for whole population of Punjab.

Punjab Food Authority acknowledges and appreciates the efforts of University of Veterinary and Animal Sciences, in conducting such effective seminars and trainings all over Punjab. These trendsetting sessions are ecessary for the capacity building of progressive dairy farmers, industry stakeholders, and students of food sciences and dairy technology, who will be the dairy sector's bright future in the coming years.

Looking forward for more collaborations in the n

Now here ! Dr. Juraid

DEPUTY DIRECTOR
(STANDARDS & ACCREDITATION)
PUNJAB FOOD AUTHORITY

PA to Director General, Punjab Food Authority.
PA to Addl. Director General (Technical), Punjab Food Authority.

Office Copy.



### **DAIRY & CATTLE FARMERS ASSOCIATION®**

Save Farmers, Save Pakistan

Professor . Dr. Nasim Ahmad Vice Chancellor

Ref #: DCFA / 124 Dated: 03-42-2022

Vice Chancellor University of Veterinary and Animal Sciences - UVAS Syed Abdul Qadir Jillani (Out Fall) Road, Lahore - Pakistan Tel: 92-42-99211374, 99211449

Subject: Appreciation for training to Dairy & Cattle Farmers on Milk value addition and supply chain under capacity building project.

We acknowledge and appreciate the outstanding efforts of UVAS short courses in regards of Dairy & Cattle Fan on Milk value addition and supply chain under capacity building project, this will convert Dairy & Cattle indus into growing industry, specially Dr. Muhammad Junaid way of training made it easy for audience to understand learn it. We request and hope that this program will be continued in future.

DCFA Pakistan recommend all universities to follow the UVAS approach of training and design programme as pet that to promote awareness in farmers and common man to alive this organic food chain. Research and consumption record shows that Pakistania antion is a babitual of fresh tills (consumption which is full of manufacture). The patients are provided to the patients of the patients are provided to the patients of the patients are provided and the patients are provided to the patients are patients. The provided the patients are provided to the patients are provided to the patients and to the patients are patients. The provided the patients are patients are patients are patients are patients and the patients are patients. The patients are patients are patients are patients are patients are patients. The patients are patients are patients are patients are patients are patients are patients. The patients are patients are patients are patients are patients are patients are patients. The patients are patients are patients are patients are patients and patients are patients. The patients are patients are patients are patients are patients are patients are patients. The patients are patients are patients are patients are patients are patients are patients. The patients are patients are patients are patients are patients are patients are patients. The patients are patients. The patients are patients. The patients are patients. The patients are patients. The patients are patients. The patients are patients ar

Dairy & Cattle Farmers Association of Pakistan cover all province of Pakistan and continuously in con-the experts and businessman like doctors, nutritionist, processing specialist, feed processor farming co-research & development organizations and agriculture farmers to give support to this sinking industry.

CC:
-Prime Minister of Pakistan.
-All Chief Minister of provinces.
-All Minister of Agriculture of Provinces.
-All Secretary of National Food Security & Re
-All Secretary Livestock of Provinces.
-To all Agricultural Universities of Pakista



Plot No. 185, Road No. 06, Cattle Colony, Bin Qasim Town, Karachi.

# +92-21-35080120 = +92-21-35085690



Dated: FEB 9, 2023

Prof. Dr. Nasim Ahmed (S.I.).

Vice Cha

University of Veterinary & Animal Sciences, Lahore.

Subject: - ACKNOWLEDGEMENT FOR OUTSTANDING EFFORTS of CAPACITY BUILDING PROJECT

UVAS FOR UPLIFT OF DAIRY SECTOR DALFA's objective is to enhance the knowledge of farmers and skills by adopting modern techniques for

value addition which in turn would contribute to the national (DP). On behalf of Dairy Agriculture Livestock Fisheries
Association (DALFA), We acknowledge and appreciate the outstanding efforts of UVAS and Capacity Building
Project team for the uplift of Dairy Sector in the country. Indeed, Milk Value Addition is the ultimate solution for sustainability of Dairy business.

Capacity Building Project is especially linked with the sectoral strategy of Livestock Govt. of Punjab. Currently small scale dairy farmers need sophisticated technologies that are used on a global scale to improve their productivity and quality. This initiative has stepped in to teach personals in accordance with worldwide standards that

In this regard, Dairy Agriculture Livestock Fisheries Association (DALFA) are grateful to Worthy Vice Chancellor, UVAS, Lahore, Prof. Dr. Nasim Ahmad (S.I.), Project Director, Dr. Muha ad Junaid and his team for Canceuror, UNAS, Latore, Prof. LP. Assum Ahmad (S.L), Project Director, Dr. Muhammad Junali and his team for joining hands with DALFA as a Knowledge partner and for attending the Seminarin in Dalfa Cattle Show at Karnelin Expo Centre. We are proud of the university ties your team has built between scademia, industry and dairy farmers, these are the testament to the lasting partnership between the sector. Certainly, the capacity building of progressive dairy farmers, industry stakeholders, and consumers will also open a new er or fills value addition in Sindt. We look forward to extend the Capacity Building Services of the project in Sindh Povince in near future as joint ventures.

Looking forward to extend mutual cooperation, please



DALFA ASSOCIATION DAIRY AGRICULTURE LIVESTOCK FARMERS ASSOCIATION DALFA SECRETARIAT

usiness Forum Building Main Khalid Bin Waleed Road Karachi. apak.com Email: info@dalfapak.com, h.a.mithani@gmail.com











## **Appreciations**



Food Science & Technology

Ref. No. KFUEIT/FST/856

Dated: June 23rd, 2022

Dr. Muhammad Junaid, Project Director, Department of Dairy Technology, UVAS, Ravi Campus.

Subject: - ACKNOWLEDGEMENT FOR COLLABORATION IN ORGANIZING A CONFERENCE ON MILK VALUE CHAIN IN SOUTHERN PUNJAB

We acknowledge and appreciate the outstanding efforts of UVAS and Capacity Building Project team for the collaboration in organizing a one-day conference in Southern Punjab on Milk Value Chain

Capacity Building Project is especially linked with the sectoral strategy of Livestock Govt. of Punjab Currently small scale dairy farmers need sophisticated technologies that are used on a global scale to improve their productivity and quality. This initiative will step in to teach personnel in accordance with worldwide standards that have higher quality attributes

In this regard, the faculty of KFUEIT, RYK is grateful to Project Director- Dr. Muhammad Junaid and his project team for making the session possible through financial and moral support for the capacity building of progressive dairy farmers, industry stakeholders, and dairy technology students who will be the dairy sector's bright future in the coming years.

The KFUEIT faculty would like to express the sincere gratitude to Prof. Dr. Nasim Ahmad (S.I.), Worthy Vice Chancellor, UVAS, Lahore, for giving us this opportunity at KFUEIT, RYK and sparing his valuable time for the online session

This activity will prove to be the South Punjab's future Horizon. We extend our services for any such future collaborations and joint ventures.

Looking forward to host you at KFUEIT in the near future.



Dr. Muhammad Farhan Jahangir Chughtai Additional Director Institute of Food Science and Technology KFUEIT-RYK.

Khwaja Fareed University of Engineering & Information Technology Abu Dhabi Road, Rahim Yar Khan. Tel: +92 68 5882400, +92 68 5882432 Fax: +92 68 5882405





### **National Alliance For Safe Food ®**

Ref No: NAFS/22/39 Pate: June 29, 2022

Dr. Muhammad Junaid, Project Director,
Department of Dairy Technology,
UVAS, Ravi Campus.

Subject: Acknowledgement for Collaboration in Organizing National Seminar on World Milk Day titled "Safe Milk-Safe Nation; Dairy Industry Perspective"

We acknowledge and appreciate the outstanding efforts of UVAS and Capacity Building Project team for the collaboration in organizing a one-day National seminar on the theme "Safe Milk-Safe Nation; Dairy Industry Perspective" in accordance to the event of World Milk day at Pearl Continental Hotel, Lahore.

Capacity Building Project is especially linked with the sectoral strategy of Livestock Govt. of Punjab. Currently small scale dairy farmers need sophisticated technologies that are used on a global scale to improve their productivity and quality. This initiative will step in to teach personnel in accordance with worldwide standards that have higher quality attributes.

In this regard, National Alliance for Safe Food is grateful to Project Director- Dr. Muhammad Junaid and his project team for making the seminar possible through financial and moral support for the capacity building of progressive dairy farmers and industry stakeholders.

The team of National Alliance for Safe Food would like to express the sincere gratitude to Prof. Dr. Nasim Ahmad (S.I.), Worthy Vice Chancellor, UVAS, Lahore, for giving us this opportunity and sparing his valuable time for the session.

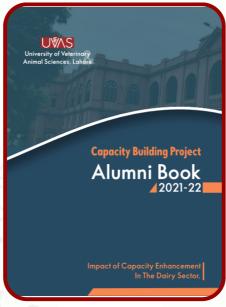
We extend our services for any such future collaborations and joint ventures for the capacity building of dairy sector

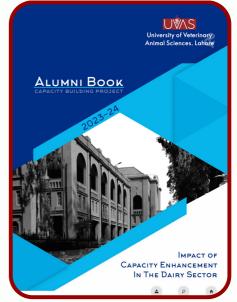


oad: Ground Floor, NSTP Building, NUST Islamabad. Karachi: 246-D, KDA Scheme 01. Lahore: J-16, Johar Town www.nafsfood.org , info@nafsfood.org

# Alumni Books







**Alumni Book 1** 

**Alumni Book 2** 













### Industrial Beneficiaries







































































































































































## **Industrial Beneficiaries**

























































**Tti Testing Laboratories** 









With motivated, highly qualified & skilled faculty, the Department of Dairy Technology is fully equipped in conducting good training program. The Department has honoured the esteemed veterinarians, dairy farmers, dairy entrepreneurs and industry stakeholders at Faculty of Animal Production and Technology, UVAS Ravi-campus for an excellent learning experience on milk value chain



Prof. Dr. Saima Dean FAP&T

### Department of Dairy Technology



Dr. Saima Inayat Chairperson



Dr. M. Nadeem Associate Professor



Dr. Nabila Gulzar Assistant Professor



Dr. Ishtiaque Ahmed Assistant Professor



Dr. Muhammad Junaid Project Director



Engr. Saqib Manzoor Lecturer



Mr. Asim Ikram Lecturer



Mr. Asif Ali Senior Clerk

### **Project Team**



Dr. Muhammad Junaid



Mr. Umer Iqbal



Ms. Dua Anwar



Mr. Hafiz Syed Haroon Ali Shah



Mr. Nadeem Ali







