

CURRICULUM VITAE

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Academic Qualifications:

Examinations	Marks/ OGPA/ OCPA obtained	Marks obtained in percent	University/ Board/ Institution	Year of Passing
Ph.D. (Livestock Production and Management)	3.56	84.20	CCSHAU, Hisar	1997
M.Sc. (Livestock Production and Management)	3.34	76.80	CCSHAU, Hisar	1987

B.Sc. (Hons.) Agriculture	2.66	58.77	CCSHAU, Hisar	1984
Higher Secondary Examination	268/400	67.00	RSEB, Ajmer	1980

DETAILS OF EXPERIENCE POSSESSED AS PER ELIGIBILITY CRITERIA:

Sr. No.	Post	Period
1.	Professor (Animal Science) –cum- Deputy Dean, UCoA, Guru Kashi University, Talwandi Sabo	From 01.03.2021 to September 30, 2025
2.	Professor (Animal Science), PAU, Ludhiana	07 years
3.	Associate Professor (Animal Science), PAU, Ludhiana	06 years
4.	Assistant Professor (Animal Science), PAU, Ludhiana	09 years
5.	Assistant Professor (Livestock Production and Management), CCSHAU, Hisar	02 years 11 months
6.	District Extension Specialist (Animal Science), CCSHAU, Hisar	02 years 10 months
Total experience (In years and months)		32 years 02 months

Brief summary of nature of duties performed:

1. Perform the additional duties of Deputy Director (Training) of Krishi Vigyan Kendra, Sangrur from 2007 to 2011 for organizing, supervising and co-ordinating extension and research activities for effective transfer of technology. Execution & implementation of Annual Action Plan for KVK and management of Research Station, Sangrur (Kheri) and KVK Seed Farm. Furthermore, performed the additional duties of Deputy Director (Training) of Krishi Vigyan Kendra, Mansa from 2012 to 2016 for organizing, supervising and co-ordinating extension and research activities for effective transfer of technology.
2. Major role played in utilization of crores of university funds for establishing KVK buildings, Seed Farms and various Demonstration Units.
3. Conducted survey of the operational area in order to prepare the resource monetary with special reference to identify the training needs of the farming community in the field of Animal Science.

4. Conducted short and long duration on and off campus training courses for farmers, farm women, rural youth and others on various aspects of Animal Sciences for self- generating employment.
5. Organized refresher training courses to update the extension personal with emerging advances in Animal Science research.
6. Organized non-formal programmes by the way of demonstrations, exhibitions, awareness camps, exposure visits, farm visits, farmers fair and publications in magazines/newspapers and through other method of skills transfer.
7. Organized on farm trails and front line demonstrations to generate production data and feedback information to university scientists.
8. Renderd farm advisory services to farmers and in-service candidates in the fields of Animal Science through “On the spot advice” or by visiting at their farms.
9. Collaborated with subject matter specialist of HAU, PAU, KVK’s, FASS’s, Deptt. of Agriculture, Agricultural Technology Management Agency, Dairy Development, Animal Husbandry NABARD, Nehru Yuva Kendra, Central Warehouse Corporation, Co-operative Societies, Rural Self – Employment Training Centre (SBOP) etc. for organizing various welfare activities for upliftment of socio-economic status of rural community by transfer of technology programmes.
10. Acquainted the farmers about animal science training programmes, health and house management, project reports, credit facilities, subsidies, value addition, university publications, literature, formulation/availability of mineral mixture, uromin lick, quality fodder production and silage making, auction of quality animals, post-mortem examination of various diseases, preparation and testing of various types of domestic rations/feed ingredients, summer/winter management of various types of dairy, piggery, goatry animals and poultry.
11. Bridged the unfilled gap between the farming community and research institute by organizing the need based production oriented technology programmes both on and off the campus.
12. Addressed the farmers training camps organized by KVK or other extension agencies like Deptt. of Agriculture, Agricultural Technology Management Agency, Dairy Development, Animal Husbandry, Nehru Yuva Kendra, Central Warehouse Corporation,

- NABARD, Co-operative Societies, Rural Self-Employment Training Centre (SBOP) etc. through invitation lectures, demonstrations and on the spot guidance.
13. Displayed exhibitions in Kisan Mela, training camps, field days, vocational trainings, Scientific Advisory Committee Meetings, Seminars, Ex - Trainees Sammelan – cum - Certificate Distribution Function, etc.
 14. Any other duties assigned by The Director of Extension Education, HAU & PAU, District Administration and The Zonal Project Director or Indian Council of Agricultural Research, New Delhi /other extension agencies.

Contribution in teaching/research/extension:

Teaching:

- I. Taught various subjects of Livestock Production and Management to the students of under graduate classes in the College of Veterinary Sciences, Agriculture and Home Sciences at CCSHAU, Hisar from 29.12.1992 to 27.11.95.
- II. Taught various subjects of Livestock Production and Management to the students of Diploma in Veterinary Livestock Development Assistant (VLDA), College of Veterinary Sciences at CCSHAU, Hisar from 29.12.1992 to 27.11.95.
- III. Taught various subjects of Livestock Production and Management, poultry Science and Dairy Technology to the students of Diploma in Veterinary Science (VLDA), Agriculture, University College of Agriculture at Guru Kashi University, Talwandi Sabo from 01.03.2021 to 20.11.23.
- IV. Performing the duties as Incharge of Diploma in Agriculture Science, Guru Kashi University, Talwandi Sabo.
- V. Taught various subjects of Animal Husbandry and Dairy Science to the students of under graduate classes in the University College of Agriculture, Guru Kashi University, Talwandi Sabo from 01.03.2021 to September 30, 2025.

Research:

- I. Research work during M. Sc. Degree: “Effect of stocking density and age of birds on reproductive traits of turkeys under intensive and semi-intensive systems of management”.

- II. Research work during Ph.D. degree: “A study on adoption status of managerial practices in broiler farms of Haryana”.
- III. Research trials conducted at KVK, Hoshiarpur:
 - Constraints of Broiler Farming in Kandi area of Punjab
 - Costs and Returns of Small Scale Broiler Farming
- IV. Surveys conducted on impact of certain socio-economic factors on the adoption of broiler farming in District Hoshiarpur
- V. Research trials conducted at KVK, Sangrur:
 - Dairy farming practices followed by different categories of dairy farmers in South Western Punjab.
 - Impact of vocational training on dairy enterprise in south western districts of Punjab.
- VI. Surveys conducted on impact of certain socio-economic factors on the adoption of broiler farming in District Sangrur
- VII. Research trials conducted at KVK, Mansa:
 - Effect of mineral mixture and de-wormer on production performance in cross bred cows
 - Production performance of different breeds of poultry (IBL-80, RIR-Golden and Kadaknath)
 - Effect of bypass fat in improving and sustaining milk production
- VIII. Surveys conducted at KVK, Mansa:
 - Impact of certain socio-economic factors on the adoption of goat, pig and broiler farming in District Mansa
 - Impact of farm size, educational status and land holding on the adoption of recommended practices in Dairy farms in District Mansa
- IX. Adaptive Research Trial conducted at KVK, Mansa:
 - Testing of Napier *Bajra* hybrid PBN 346 for fodder against PBN 233
- X. Bench mark survey of five villages adopted by Guru KashI University, Talwandi Sabo was conducted under the Project of Unnat Bharat Abhiyan during the year 2021-22.

- XI. Conducted Bench mark survey of Distt. Hisar in order to prepare the resource monetary with special reference to identify the training needs of the farming community in the field of Animal Science.

Extension:

- I. Performed the additional duties of Deputy Director (Trg.) as an In-charge of Krishi Vigyan Kendra, Kheri (Sangrur) from 01.08.2007 to 18.01.2010 and again from 01.06.2010 to 23.08.2011.
- II. Performed the additional duties of Director as an In-charge of Regional Research Station, Kheri (Sangrur) from 01.08.2007 to 18.01.2010 and again from 01.06.2010 to 23.08.2011.
- III. Performed the additional duties of Deputy Director (Trg.) as an In-charge of Krishi Vigyan Kendra, Mansa from 01.02.2012 to 09.03.2016.
- IV. Established and maintained Goat Demonstration Unit at KVK, Hisar; Dairy, Cage system for layer and Broiler Demonstration Unit at KVK, Hoshiarpur; Automatic Weather Station and Information Hub at KVK, Sangrur; Goat and Broiler Demonstration Unit at KVK, Mansa
- V. Production oriented need based extension activities were organized to establish new dairy, piggery, goatry and poultry units, preparation of balanced domestic feed, use of mineral mixture, propagation of perennial fodder crops, production and preservation of quality fodders, prevention and control of diseases in animals/poultry, summer and winter management of animals/poultry birds, proper method of milking, clean milk production, care of milk at home, record keeping, availability of valuable literature etc. Farmers were advised to purchase quality animals and day-old chicks from reliable institutions. Farmers were also guided regarding analysis of feed/ ingredients, diagnosis of various diseases and various long duration practical trainings on Animal Science aspects to be conducted round the year in PAU, GADVASU, KVK's and other ICAR/Government institutions. Major achievements for strengthening the dairy, broiler, layer, goat and pig farming are given below:
 - Guided and facilitated the farmers in establishment of 92 dairy farms
 - Guided and facilitated the farmers in establishment of 520 broiler farms
 - Guided and facilitated the farmers in establishment of 08 layer farms

- Guided and facilitated the farmers in establishment of 115 goat farms
 - Guided and facilitated the farmers in establishment of 95 pig farms
 - Guided and facilitated the farmers for raising of fodder crop of,” Perennial Napier Hybrid Bajra at numerous places at farmer’s fields
 - Guided and facilitated the farmers in establishment of 45 Silo-pit (Silage making)
 - Guided and facilitated the farmers in establishment of 90 Feed Grinder unit for preparation of balanced ration at domestic level
- VI. Organized 38 refresher training courses to update the extension personal within the area of operation with emerging advances in Animal Science research on regular basis.
- VII. Conducted 318 short, long and vocational on and off campus training courses for farmers, farm women, rural youth and others on various aspects of Animal Sciences for self-generating employment.
- VIII. Rendered farm advisory services to farmers and in-service candidates regularly in the fields of Animal Science through” On the spot advice” or by visiting at their farms.
- IX. Organized non-formal programmes by the way of numerous method/field demonstrations, 48 animal clinical/welfare/awareness camps, 160 meeting of farmer club, 250 exhibitions 160 Invitation lectures 82 Exposure visits and attended/participation in 180 Kisan Mela’s/ seminars/ conferences/ meetings/ special days and workshops.
- X. Acquainted the farming community regularly about university publications, literature, mineral mixture, quality fodder production and silage making, auction of quality animals, post-mortem examination of various diseases, testing of various types of feed/ feed ingredients etc.
- XI. **Utility services provided:**
- Sale of area specific mineral mixture for dairy and pig animals
 - UMMB/Uromin Lick and bypass fat
 - Sale of seed of fodder crops viz. Maize, Sorghum, Barseem, Barley, Oats, Rye-grass and seedlings of Napier *Bajra* hybrid
 - Sale of literature (Books on dairy, poultry, piggery, goat farming and Package of Practices for Veterinary and Animal Husbandry)

- Adulteration in milk testing kit

XII. Front Line Demonstrations conducted:

- FLD's on area specific mineral mixture for dairy animals
- FLD's on area specific mineral mixture for pig animals
- FLD's on cultivation of barley for varietal evaluation
- FLD's on successful cultivation of Barseem as fodder
- FLD's on utilization of Bypass Fat in high lactating dairy animals

XIII. Annual Progress Reports Presented:

- Presented 84 Annual Progress Reports of KVK, Sangrur and Mansa in Zonal workshops, Self Employment Awareness Fair, Ex Trainees *Sammlan*-cum-Certificate Distribution Function and SAC meetings
- Presented 44 Annual Action Plan of KVK, Sangrur and Mansa in State Level Training Planning Workshop and SAC meetings
- Presented 24 Annual Progress Reports of FLD's on oil seed and pulse crops of KVK Sangrur and Mansa on various functions
- Presented 186 Presentations on scientific management of dairy, poultry, piggery and goat farms on the occasions of vocational and in-service training programs.

Resource generation:

Category of Activities	Description of activities
Technologies Commercialized/ Consultancy	Vocational Trainings on Dairy Farming, Poultry Farming, Goat Farming, Pig Farming, Bee-keeping etc.
	INM, Residue Management and Water Management
	Seed production
	Sale of scientific/university Literature
	Soil and water testing
	Diseases diagnosis

Got Awards and appreciations:

Sr. No.	Activity
1.	Best Annual Progress Report Presentation
2.	Best Poster Presentation
3.	Grand Success of Kisan Melas
4.	Best Krishi Vigyan Kendra stall Presentation in Kissan Melas
5.	Low Cost Net-house Technology popularization
6.	Eminent Scientist Award presented by S.R University, Warangal SKLSTHU, Hyderabad
7.	A certificate awarded by Zonal Coordinator, ICAR, New Delhi for, “Life time contribution and Excellent Work towards the Progress of Animal Husbandry in the Distt. Mansa (Punjab).”

Other works:

- ◆ Performing the duties as Incharge of “University Division of Extension Education”, Guru Kashi University, Talwandi Sabo.
- ◆ Performing the duties as Coordinator of Project “Unnat Bharat Abhiyan under Coordinating Institute, IIT, Delhi, Guru Kashi University, Talwandi Sabo.
- ◆ Performing the duties as Incharge of, “Incubation Cell,” Guru Kashi University, Talwandi Sabo.
- ◆ Performing the duties as Member of, “University Academic Council Committee,” Guru Kashi University, Talwandi Sabo.
- ◆ Performing the duties as Coordinator of, “University Minority Cell,” Guru Kashi University, Talwandi Sabo.

Publications:**A. RESEARCH PAPERS PUBLISHED:**

- Singh, B., Dhaliwal, A.P.S., Singh, S. and Singh, G. (2015). Impact of vocational training on dairy enterprise in south western districts of Punjab. *J. Krishi Vigyan*.3(2): 62-65.
- Singh, B., Dhaliwal, A.P.S. and Singh, G. (2013). Dairy farming practices followed by different categories of dairy farmers in South Western Punjab. *J. Krishi Vigyan*.1(2): 13-16.
- Bhattu, B. S. (2006). A Study on Costs and Returns of Small Scale Broiler Farming. *Indian Farming*. 16 (02): 16-18.
- Bhattu, B. S. and Maskina, M.S. (2002). Constraints of Broiler Farming in Kandi area of Punjab. *Intensive Agriculture*. 40(1-2):5 -7.
- Bhattu, B. S., Gupta, S.C. and Sharma, R.K. (2001). A Study on impact of farm size, educational status and land holding on light intensity in the broiler farms of three regions of Haryana. *Indian J. Anim. Res.* 32(2): 111-113.
- Bhattu, B. S., Gupta, S.C. and Sharma, R.K. (1999). A Study on region wise constraints encountered by broiler farmers in Haryana. *Indian J. Anim. Res.* 32(2): 131-133.
- Bhattu, B. S., Gupta, S.C. and Sharma, R.K. (1999). Impact of certain socio-economic factors on the adoption of broiler farming in Haryana. *Indian J. Poultry Sci.* 34(2): 207-212.
- Bhattu, B. S., Gupta, S.C. and Chopra, S.K. (1998). A Study of socio-economic parameters of broiler farming in Haryana. *Indian J. Anim. Res.* 32(2): 111-113.
- Bhattu, B. S., and Singh, R. A. (1998). Effect of Stocking density and age of birds on the performance of Turkeys under different systems of management. *Indian J. Poultry Sci.* 24(2): 103-106.

B. RESEARCH PAPERS PRESENTED:

- **Bhattu B. S.** and Ankit Sharma (2015) Baler Technology for the paddy residue management – need of the hour: Presented in *3rd International Conference on Advancement In Engineering and Technology* held on 20-21 March 2015 at Bhai Gurdas Institute of Engineering and Technology, Sangrur (Punjab).
- Bhattu B S, Ankit Sharma and Gurdeep Singh (2015) A Study on Constraints of Broiler Farming Entrepreneurship in Mansa district of Punjab: Presented in *3rd International Conference on Advancement in Engineering and Technology* held on 20-21 March 2015 at Bhai Gurdas Institute of Engineering and Technology, Sangrur (Punjab).
- Singh, Harjinder; Singh, Gursewak and Bhattu, B.S. (2011) Comparative analysis of different brands of Rice in Sangrur” Paper presented in Sixth National Conf. On Innovative developments in Engineering applications Jan27-28,2011 held at BGJET,Sangrur from 27 to 29 January, 2011. Pp.268-277.
- Bhattu,B.S (2011). A study on adoption status of recommended technologies by dairy farmers in Punjab. Presented at 14th Punjab Science Congress held at Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur) from 07 to 09 February, 2011.
- Bhattu,B.S, Dhaliwal, APS and Grover, J. (2011). Role of scientific innovation and economic development for empowering farm women through dairy entrepreneurship. Presented at 14th Punjab Science Congress held at Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur) from 07 to 09 February, 2011.
- Bhattu,B.S. and Dhaliwal, APS (2011). Globalization and daitying in Punjab. Presented at 14th Punjab Science Congress held at Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur) from 07 to 09 February, 2011.

- Bhattu, B.S. and Dhaliwal, APS (2011). Bright future of Indian poultry farming by rural women through self-help-groups. Presented at 14th Punjab Science Congress held at Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur) from 07 to 09 February, 2011.
- A P S Dhaliwal, **B S Bhattu** and G S Dhillon (2011). Awareness and education to the farmers on impact of climate change in livestock and poultry birds. National symposia and XIX ISAPMCON, Nov. 2-4, GADVASU Ludhiana, p. 282.
- **B S Bhattu** and A P S Dhaliwal (2011). Methods and training modules for enhancing management skills among extension professionals. International conference on innovative approach for agriculture knowledge management. Nov. 9-12, New Delhi, p. 246.
- Sunita, R. and Bhattu, B.S. (2007). Sustainable Development-Need of 21st Century. Presented at National Conference on, “Innovative Developments in Engineering Applications,” held at BGIET, Sangrur on 2nd and 3rd March, 2007.
- Bhattu, B.S., Gupta, S.C. and Chopra, S.K. (1999). Impact of certain socio-economic factors on general structure of houses of broiler farms in Haryana. Presented at International Conference on, “Sustainable Animal Production, Health and Environment: Future Challenge,” held at Haryana Agricultural University, Hisar on 24-27 November, 1999.

C. PAMPHLET PUBLISHED:

- Pritpal-Singh, Bharat-Singh, Gurdeep-Singh, Ankit-Sharma and Daljinder-Singh (2015) Mitti Parakh Lae Namune Kiwe Laiyea”. Pritpal-Singh, Bharat-Singh, Gurdeep-Singh, Ankit-Sharma and Daljinder-Singh (2015) Kanak-Jhona Fasli Chakkar Vich Khaddan Di Suchajji Varton Lae Aeham Nukte”.

- Bharat Singh (2014). “IMPORTANT GOAT FARMING MANAGEMENT PARAMETERS”.
- Gurdeep Singh and Bharat Singh (2015). “pMjwb KyqIbwVI XunIvristI duAwrw pRmwixq Jonw, nrmw, iq`l, kmwd Aqy juAwr dIAW nvIAW iksmW”.
- Daljinder Singh and Bharat Singh (2015). “sbzIAW dI sur`iKAq KyqI”.
- Bharat Singh (2015). “FORMULATION OF BALANCED RATION FOR LIVESTOCK”.
- Bharat Singh and Ankit Sharma (2015). “ PADDY STRAW BALER – NEED OF THE HOUR”.
- Bhattu, B.S., Jagdish Grover and Brar, R.S. (2009). “Turkey Production in Punjab”.
- Bhattu, B. S. and Gill, H. K. (2005). “Hare Chare Da Achar Banauna”.

ABSTRACT PUBLISHED:

- Gurdeep Singh, **B S Bhattu** and Ankit Sharma (2014) Analysis of Problems Faced by Small Bt. Cotton Growers. Abstract: Published in proceeding of 7th *National Extension Education Congress 2014 at Umiam*, Meghalaya held from 08-11-2014 to 11-11-2014. Pp 60.
- A P S Dhaliwal, Satbir Singh, **B S Bhattu** and G S Dhillon (2014) Role of Dairy Enterprise in Human Resource Development: Published in proceeding of 7th *National Extension Education Congress 2014 at Umiam*, Meghalaya held from 08-11-2014 to 11-11-2014. Pp 62.
- Sharma A, **Bhattu B S**, Singh G and Singh D. 2015. Adoption of Tractor Operated Paddy Straw Management Technologies. *Abstract published during 49th Annual Convention of Indian Society of Agricultural Engineers (ISAE) and Symposium on Engineering Solutions for Sustainable*

Agriculture and Food Processing” at College of Agricultural Engineering and Technology, PAU, Ludhiana, on February, 23-25, 2015.

- Anand Aneja, **Bharat Singh Bhattu**, Sanjeev Kumar (2012) Efficacy of spiromesifen 240 SE (Oberon) against *Bemisia tabaci* (Gennadius) in cotton. Abstract published in International symposium on global cotton production technologies vis-a-vis climate change held at CCS, HAU, Hisar, Haryana from 10-12 October, 2012
- Anand Aneja, Gurdeep Singh and **Bharat Singh Bhattu** (2013) Study on insecticide use pattern on paddy in Mansa district of Punjab. *In abstracts of International conference on Insect Science* held at UAS Bangalore from 14-16 February, 2013

D. EXTENSION ARTICLES PUBLISHED:

- **Singh Bharat** and Satbir Singh (2019). Bakkri Paalan – Ik laabhdhayak kitta: *Changi Kheti*, 56 (2), 10-11.
- **Singh Bharat** and Satbir Singh (2019). Goat farming – A profitable entrepreneurship: *Progressive farming*, 56 (2), 09-10.
- **Singh Bharat** and Satbir Singh (2019). Bakkri paalan – Ik laabhdhayak kitta’ *Ajit Newspaper – Jalandhar Edition*, (11th and 18th February, 2020).
- **Singh Bharat**, Singh Pritpal and Sodhi GPS (2019). Soor Paalan sadka swai-rozgar wadh amdan sambhav – S. Sukhwinder Singh Mann, *In*; Chotti Kissani ate sahayak dhandeian da sumel-sadde sirkadh agahwadhu Kisan, JS Mahal, DS Bhatti and S. Kaur (Eds.) Bulletin No. PAU/2019/F/750P, ISBN: 978-93-86267-96-2, pp: 81-82.
- Singh G, Singh P and **Bharat Singh** (2019). Integrated framing for sustainable income; pp 99-100, *In*; Rana RK, Singh R, Thakur AK, Chahal VP and Singh A K (Eds) *Contemplating agricultural growth through farmers’ frugal innovations*. P: 160 (ISBN: 978-81-941899-0-9).

- Ankit Sharma, Bharat Singh, and Gurdeep Singh (2016). Paddy Straw Collection for Power Generation and Employment: *Indian Farming*, 66 (7), 33-34.
- Gurdeep Singh, Bharat Singh and Ankit Sharma (2015). Income enhancement and employment generation through agro-processing units – Success story of farmer group ‘FARO’. *Progressive Farming*:13-14.
- Gurdeep Singh, Bharat Singh and Ankit Sharma (2015). Kisaan Samooch “FARO” di Safalta di Kahani. *Changi Kheti*: 13 & 16.
- Bharat Singh , Ankit Sharma and Gurdeep Singh (2016). Goat Farming – A profitable enterprise in Punjab: *Indian Farming*, 66 (2), 52-54.
- AjIqpwl isMG Dwllvwl, Brq isMG Aqy gurjMt isMG AolK (2012)[murgI pwlx – vDIAw shwieK DMdw[cMgI KyqI[48(8): pyj 3-4[
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- Singh, B., Dhaliwal, A.P.S. and Aulakh, G.S. (2012). Poultry farming has great potential. *Progressive Farming*. 48 (8): 13-14 & 20.
- Singh, B., Dhaliwal, A.P.S. and Aulakh, G.S. (2012). Hi-tech dairy farms: a lucrative venture. *Progressive Farming*. 48 (8): 15-16.
- AjIqpwl isMG Dwllvwl, gurjMt isMG AolK Aqy Brq isMG (2013)[vwDU kmweI dw nukqw – fyArI Aqy poltrI Xuint[cMgI KyqI[49(8): pyj 3-4[
- Singh, S., Dhaliwal, A.P.S. and Singh, B. (2013). Commercial dairy farming in Punjab: a lucrative business. *Progressive Farming*. 49 (8): 12-15.
- Dhaliwal, A.P.S. Grover, J. and Singh, B. (2013). Scientific approach to commercial pig farming. *Progressive Farming*. 49 (8): 16-18 & 21.
- Singh, B., Dhaliwal, A.P.S. and Dhillon, G. S. (2013). Poultry farming in Punjab. *Progressive Farming*. 49 (8): 19-21.

- AjIqpwl isMG Dwllvwl, gurjMt isMG AolK Aqy Brq isMG (2013)[vwDU kmweI leI fyArI PwrimMg[fylI AjIq[idsMbr 10[pyj-II[
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- Sharma, A., Singh, B. and Singh, G. (2014). Baler – A Need Based Technology for Rice Straw Management. Indian Farming. 64 (8): 33-34.
- Ankit Sharma, Gurdeep Singh, Mahesh Narang and **Bhattu B. S.** (2014). *Johne di prali dian gandan banaun wali machine di varton same sabhdanian*. Modern Kheti 14 November pp 38.
- Madhu Shelly, Singh, S. and Singh, B. (2014). Goat farming: a boon for small farmers. Progressive Farming. 50 (8): 14-17.
- Singh, B., Singh, S. and Dhaliwal, A.P.S. (2014). Pig farming has great potential. Progressive Farming. 50 (8): 18-19 & 22.
- mDU Syll, sqbIr isMG Aqy Brq isMG (2014)[b`krI pwlx – iek shwieik ikqw[cMgI KyqI[51(8): pyj 11-13[
- **B S Bhattu**, A P S Dhaliwal and Aparna Gupta (2011). Balanced ration formulation for dairy animals. Progressive Farming, Vol. 47. No.08, pp. 8-9.
- **B S Bhattu** and A P S Dhaliwal (2011). Important 10 managemental points for higher egg production. Poultry Punch, Vol. 27, No. 11, p. 25.
- **B S Bhattu** and A P S Dhaliwal (2011). Broiler farming as an economic enterprise for unemployed youth. Poultry Punch, Vol. 28, No. 02, pp 65-66.
- G S Aulakh, A P S Dhaliwal and **B S Bhattu** (2011). Safal dairy farming de mahatavpooran nukte. Changi Kheti, Vol. 47, No. 08, pp 6-7.
- A P S Dhaliwal, **B S Bhattu** and Manoj Sharma (2011) Dudh inqulab di navin pulangh – Uch takneeki pashu palan ekai. Changi Kheti, Vol. 47, No. 08, pp. 8-9
- A P S Dhaliwal, **B S Bhattu** and Manoj Sharma (2011). Dudh inklab de navi lehar. Kheti Duniya, Vol. 29, No. 32, p. 20.

- A P S Dhaliwal, **B S Bhattu** & Jagdish Grover (2011). Saf-suthra dudh utpadan. Kheti Duniya, Vol. 29, No. 33, p. 18.
- **Bhattu, B.S.**, Dhaliwal, A.P.S. and Aulakh, G.S. (2012). Hi-tech dairy farms: a lucrative venture, *Progressive farming*, vol : 48 No. 8, pp 15-16
- **Bhattu, B.S.**, Dhaliwal, A.P.S. and Aulakh, G.S. (2012). Poultry farming has great potential- *Progressive farming* vol : 48 No. 8, pp 13-14 & 20
- Aulakh, G.S., Dhaliwal, A.P.S. and **Bhattu, B. S.** (2012). Suar palan ik labh dyak dhanda- *Changi kheti*, vol : 48 No. 8, pp 5-6
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G. RADIO/TELEVISION TALKS DELIEVERED:

Dated	Title	Source of Broadcasting
28.02.2008	Egg-Nutritious and unadulterated natural food	AIR. Patiala.
23.01.09	Poultry farming- A profitable profession	AIR. Patiala.
05.05.09	Commercial dairy farming	AIR. Patiala.
21.05.09	Constraints to adopt recommended technologies in dairy farming	AIR. Patiala.
23.07.09	Trainings on efficient utilization of water at K.V.K. Kheri (Sangrur)	AIR. Patiala.
10.07.10	Prospects of broiler farming in Punjab	AIR. Patiala.
16.11.10	Poultry farming as an subsidiary occupation	AIR. Patiala.
15.07.11	Poultry farming- an important entrepreneurship for unemployed trained youth in Punjab	AIR. Patiala.
25.10.12	Broiler farming- A lucrative entrepreneurship	AIR. Bathinda.
23.05.13	Impact analysis of KVK trainings-Establishment of Mushroom, dairy, poultry, bee keeping units by the farmers/rural youth	DD Jalandhar
30.04.13	Poultry management during Summer Season	AIR. Bathinda.
24.08.15	Goat farming – a profitable subsidiary occupation	AIR. Bathinda.
16.12.15	Commercial broiler farming	AIR. Bathinda.

28.06.2017	Broiler farming – a lucrative entrepreneurship for employment and income	AIR. Bathinda.
25.10.17	Animal Husbandry subsidiary occupations – need of the hour	AIR. Bathinda.
17.12.18	Poultry Farming – Need of the hour	AIR. Bathinda.
22.06.20	Poultry farming – production and profitability	AIR. Bathinda.
18.04.23	Goat farming – a profitable subsidiary occupation	CRS, GUU, Talwandi Sabo (Bathinda)
27.04.23	Dairy farming as an subsidiary occupation	CRS, GUU, Talwandi Sabo (Bathinda)
02.05.23	Green fodder production round the year and Silage making	CRS, GUU, Talwandi Sabo (Bathinda)
10.05.23	Poultry farming – production and profitability	CRS, GUU, Talwandi Sabo (Bathinda)
17.05.23	Broiler farming – a lucrative entrepreneurship for employment trained youth	CRS, GUU, Talwandi Sabo (Bathinda)
25.05.23	Animal Husbandry subsidiary occupations – need of the hour	CRS, GUU, Talwandi Sabo (Bathinda)
08.06.23	Contract farming (Poultry)	CRS, GUU, Talwandi Sabo (Bathinda)
15.06.23	Pig farming – a profitable subsidiary occupation	CRS, GUU, Talwandi Sabo (Bathinda)

04.08.23	Fish Farming – a lucrative entrepreneurship for employment trained youth	CRS, GUU, Talwandi Sabo (Bathinda)
10.08.23	Bee Keeping – a profitable entrepreneurship	CRS, GUU, Talwandi Sabo (Bathinda)
10.08.23	Green fodder production and Silage making	CRS, GUU, Talwandi Sabo (Bathinda)
05.12.23	Paddy straw management	CRS, GUU, Talwandi Sabo (Bathinda)
27.02.24	Causes, symptoms, prevention and control of Lumpy Skin Disease (LSD) in cattle	CRS, GUU, Talwandi Sabo (Bathinda)
27.04.24	Importance and significance of “World Veterinary Day”	CRS, GUU, Talwandi Sabo (Bathinda)
14.12.24	Importance and significance of “National Energy Conservation Day”	CRS, GUU, Talwandi Sabo (Bathinda)
24.07.25	Water Conservation – Need of the hour	CRS, GUU, Talwandi Sabo (Bathinda)