

Biodata of Dr. Sukhpal Singh

**Principal Economist and Former Head
Department of Economics and Sociology
Punjab Agricultural University, Ludhiana-141004**

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1. General information of Applicant:

Name (in Capital Letters)	Dr. SUKHPAL SINGH
Date of Birth (Day/Month/Year)	13/11/1962
Place of Birth	Village Bapiana, District Mansa, Punjab
Nationality	Indian
Correspondence Address	House No-7/1, Punjab Agricultural University, Ludhiana
Permanent Address	Dr Sukhpal Singh, Street No-2, Guru Gobind Singh Nagar, Mansa
Phone No	Mobile No.- 9876063523
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2. Present Position:

a.	Designation	Principal Economist(Agricultural Marketing)/ Professor
b.	Organization	Punjab Agricultural University, Ludhiana
c.	Pay Scale	Rs 37400-67000+AGP 10000
d.	Date of appointment to the present post	04-05-2006
e.	Total Experience (in Years and months)	15 years 11 months

3. Details of experience possessed as per eligibility criteria:

(10 years' Professorship or equivalent as per UGC Regulations on Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measures for Maintenance of Standards in Higher Education 2010 and subsequent modifications)

(In chronological order from latest to oldest academic position)

S. No.	Post held	Pay Scale	Organization	Nature of Duties	Experience (In years & Months)
1.	Principal Economist (Equivalent to Professor)	Rs 37400- 67000+A GP 10000	Punjab Agricultural University (PAU), Ludhiana	Research, Teaching & Extension	15 years 11 months

4. Educational Qualification:

(In chronological order from Ph.D. to Matriculation)

S. No.	Qualification	University	Year	Subject(s)/ Topic(s)	% Achieved	Distinctions etc.
1	Professional Capacity Building Program (Diploma)	ICRA, Netherlands	2004	Agril. Res for Development	80%	Fellowship Award
2	Ph.D.	Punjabi University, Patiala	1993	Econ	-	-
3	M.Phil.	Punjabi University, Patiala	1988	Econ	62%	A Grade
4	M.A.	Punjabi University, Patiala	1986	Econ	59.4%	-
5	B.A.	Punjabi University Patiala	1983	Pbi, Eng, Math, Econ	58.3%	Ist in Economics & Punjabi in College

5. Administrative Experience/Post(s) & Responsibilities held:

S. No.	Post	Organization/ University	Duration		Experience (in Years & Months)
			From (Date)	To (Date)	
1.	Head of the Department	Dept. of Econ & Sociology, PAU Ludhiana	18-07-2014	17-07-2018	4 Years
2.	Chairman, Board of Studies	-	-	-	-
3.	Member, Board of Studies	Punjabi University, Patiala, GNDU, Amritsar PAU, Ludhiana	2016 2015	2022 2018	6 Years 3 Years
4.	Dean/Director	-	-	-	-
5.	Member of Academic Council	PAU Ludhiana	May 2018	July 2018	3 Months
6.	Member of Executive Council	-	-	-	-
7.	Member of Professional/ Academic Bodies	ISAE, Mumbai	2007	2009	2 Years
8.	President of Professional Societies	ISAD&P, Ludhiana	2014	2018	4 Years

S. No.	Post	Organization/ University	Duration		Experience (in Years & Months)
			From (Date)	To (Date)	
9.	Vice-President of Professional Societies	ISAE, Mumbai	2015	2017	2 Years
10.	Member State Evaluation Committee	Constituted by Governor of Punjab	Aug, 2016	July, 2018	2 Years
11.	Coordinator, Farmers and Agril. Labour Suicides Study	GoP	2012	2018	6 Years

6 (a) Academic/ Teaching experience & responsibilities* (in chronological order from latest to oldest):

S. No.	Post Held	Organization/ University	Duration		Experience (In Years and months)
			From (Date)	To (Date)	
1.	Principal Economist (Professor)	PAU, Ludhiana	04-05-2006	To date	15 Years 11 months
2.	Professor & Head	Dept of Econ & Soc, PAU, Ldh	18-07-2014	17-07-2018	4 Years
3.	Agricultural Economist	PAU, Ludhiana	04-05-1998	03-05-2006	8 Years
4.	Lecturer (Econ)	SDC, Barnala	01-12-1993	03-05-1998	4 Years 5 months
5.	Lecturer (Econ)	Pbi Univ, Patiala	24-11-1992	30-11-1993	1 Year
6.	Asstt. Res. Officer (Lect.)	PAU, Ludhiana	21-05-1991	31-08-1992	1 Year 3 months

(b) Participation and contribution in relevant areas of higher education

	Organization	Areas of specialization
Expert Faculty	PAU, Ludhiana	Economics
Resource Person	Various Universities/ Institutes	Economics

(c) Involvement with formulation of academic programmes

S. No.	Nomenclature of Innovative Academic Programmes formulated	Date of Approval by Academic Council	Year of Introduction
1.	Development, revision and change of syllabi of M Sc Economics as per ICAR guidelines	During Headship (2014-18)	2017-18

(d) Important MoUs formulated/created for Academic collaborations-NIL

(e) Position of Chairs-NIL

7. International Academic exposure, if any:

Sr. No.	Post/ Assignment	Organization/ University	Area of Assignment	Duration		Period (in years & months)
				From	To	
1.	Fellowship Program	ICRA, Netherlands	Agril Research for Development	January 2004	April 2004	3.5 months
2.	Participatory Research Program	KN University of Science & Technology, Kumasi, Ghana	Research and Field Work	May 2004	June 2004	3 months
3.	Organizing Secretary	International Scholars' Society, Bakersfield, USA	Rural Development	June 2019	July 2019	1 month
4.	Chairperson	World Punjabi Conference, Canada	Migration and Rural Society	June 2019	June 2019	15 days
5.	Invited Lecture	Indoz Punjabi Sahit Academy of Australia	Rural Economy	February 2020	March 2020	18 days
6.	Radio Talk	Radio I, New Zealand	Small Peasantry	March 2020	March 2020	7 days

8. Scholarly Achievements:

A. Contribution to Journals and Books including electronic

	Details
Books authored	1. Taking More than a Commission-A Critique of the Commission Agent System in Punjab Agriculture (Dr M S Randhawa Best Book Award by PAU) 2. Dynamics of Rural Poverty
Editor in Chief	Journal of Agricultural Policy and Development
Editorships	Journal of Agricultural Policy and Development
Peer reviewer for	Journal of Agricultural Policy and Development, Agricultural Economics Research Review, Indian Journal of Agricultural Economics
Member of the International Advisory Board	4
Published Policy Reports/ Bulletins	11
Research reports	70

B. Publications:**B I Kindly provide list of 20 best scholarly publications in recognized (referred) professional and/or academic journals:****Total Publications: 102 (List of best 20 publications attached)**

S. No.	Date	Title	Name of the Journal	Referred Journal or not	No. of Citations (where possible)
1.	2021	MSP in a changing agricultural policy environment	Economic and Political Weekly	Yes	3
2.	2021	Socio-Economic Conditions of Agricultural Labourers in Punjab	Indian Journal of Agricultural Economics	Yes	-
3.	2021	Agrarian Crisis and agricultural Labourer Suicides in Punjab	Economic and Political Weekly	Yes	5
4.	2021	Implications of Organized Retailing in Horticultural Crops	Indian Journal of Agricultural Sciences	Yes	-
5.	2020	Punjab's Agricultural Labourers in Transition: A longitudinal study of three decades	Economic and Political Weekly	Yes	3
6.	2018	Agronomic and economic impact of direct seeded rice in Punjab	Agricultural Research Journal	Yes	14
7.	2018	Death in the Midst of Plenty: Farmer Suicides in Punjab	Economic and Political Weekly	Yes	3
8.	2016	Commission Agents System: What Ought to be Done	Economic and Political Weekly	Yes	4
9.	2015	Commission Agent System: Significance in Contemporary Agricultural Economy of Punjab	Economic and Political Weekly	Yes	15
10.	2014	Depeasantization in Punjab: Status of Farmers Who Left Farming	Current Science	Yes	46
11	2014	Magnitude and determinants of indebtedness among farmers in Punjab	Indian Journal of Agricultural Economics	Yes	27
12.	2014	Punjab's Small Peasantry: Thriving or Deteriorating	Economic and Political Weekly	Yes	10
13.	2011	Farmers' Suicides in Punjab: A Census Survey of the Two Most Affected Districts	Economic and Political Weekly	Yes	37
14.	2009	Agrarian Crisis and Depeasantisation in Punjab: Status of Small/Marginal Farmers Who Left Agriculture	Indian Journal of Agricultural Economics	Yes	46

S. No.	Date	Title	Name of the Journal	Referred Journal or not	No. of Citations (where possible)
15.	2009	Inadequacies of Institutional Agril Credit System in Punjab State	Agricultural Economics Research Review	Yes	26
16.	2009	Survival of Agricultural Labour in Punjab: A Burning Question	Economic and Political Weekly	Yes	17
17.	2008	Indebtedness among Farmers in Punjab	Economic and Political Weekly	Yes	34
18.	2007	Economic Evaluation of Pest Management Technologies for Sustainable Cotton Production in Punjab	Agricultural Economics Research Review	Yes	16
19.	2005	Agrarian Crisis with Special Reference to Indebtedness among Punjab Farmers	Indian Journal of Agricultural Economics	Yes	36
20.	2004	Agricultural Wages and Employment in Punjab	Economic and Political Weekly	Yes	43

B II List of articles in popular magazines or newspapers (Cite 10 you consider best)

Total Articles: 82 (List of 10 policy articles)

S. No.	Date	Title of Policy Articles	Name of Magz./ Newspaper
1.	01-03-2021	Link farming with employment to stem the rot	The Tribune
2.	22-02-2021	Kendri budget kheti khetar nu corporate hawale karega	Punjabi Tribune
3.	17-02-2021	The right MSP: What Govt pays and what farmers say they deserve	Indian Express
4.	29-01-2021	If APMC mandis go, MSP will vanish	Frontline
5.	16-01-2021	Naven kheti kanunan ton bad kisaani da ki banega	Punjabi Tribune
6.	21-12-2020	Will private players augment agri-market infra?	Hindustan Times
7.	12-12-2020	Farm laws do not reform agri sector, only cater to corporates	Times of India
8.	18-11-2020	Why Punjab should not go the Bihar way on agriculture reforms	Hindustan Times
9.	01-07-2020	Kheti ordinance: kujh ahim mudiyan te jhaat	Punjabi Tribune
10.	16-06-2020	Ordinance ate kheti arthchare da bhavikh	Punjabi Tribune

C. Participation and scholarly presentations in conferences (Total=96)

C. I National =76 (List of 10 given below)

S. No.	Date	Title of Conference or Institution	Title/Subject of Presentation
1.	28 Jan 2019	National Seminar at CRRID, Chandigarh	Rural Suicides in Punjab: Causes and Mitigating Strategies
2.	7-9 Dec 2019	61th Annual Conference of ISLE, Pbi Uni., Patiala	Drifts in Sectoral Employment and Rural Labour Markets in agriculturally Developed Region of India
3.	17-19 Dec 2019	27th Annual Conference of AERA	Poverty Amidst Plenty: A case of small land holders in Punjab
4.	19-21 Nov 2015	Platinum jubilee conference of ISAE, PAU, Ludhiana	Composition and Directions of Trade of Agricultural Products in Post-Liberalization Era
5.	16 Dec 2013	55th Annual Conference of Indian Society of Labour Economics at JNU, New Delhi	Changing Pattern of Rural Workforce and Process of Depeasantisation in Punjab
6.	3 May 2012	Workshop of Development of Punjab Economy at Punjabi University, Patiala	Crisis in Punjab Agriculture
7.	15-17 Mar 2012	National Seminar on “New Frontiers and Future Challenges in Horticultural Crops”, Punjab Agricultural University, Ludhiana	Marketing Strategies and Problems of Kinnow Cultivation in Punjab
8.	16 Nov 2006	14th Annual Conference of AERA at Pantnagar	Economic impact of Bt Cotton cultivation in Punjab
9.	15-17 Dec 2005	47th Annual Conference of ISLE, JNU New Delhi	Agricultural Labour in Punjab
10.	24-26 Nov 2005	65th Annual Conference of ISAE, PAU Ldh	Agrarian Crisis and Farmers Indebtedness in Punjab

C. II International = 20(List of 10 given below)

S. No.	Date	Title of Conference or Institution	Title/Subject of Presentation
1.	20-July 2019	International P Scholars Conference, Bakersfiels, USA	Crisis of Rural Economy of Punjab: Some Solutions
2.	29-June 2019	5th World Punjabi Conference, Brampton, Ontario, Canada	Migration and Rural Society of Punjab

S. No.	Date	Title of Conference or Institution	Title/Subject of Presentation
3.	10-11 Mar 2018	6th World Punjabi Conference, Punjab University, Chandigarh	Economy, Peasantry and suicides
4.	18-Jan 2017	33rd International Punjabi Development Conference at Punjabi University, Patiala	New Agricultural Technology and Punjab Farmers
5.	21-23 Mar 2014	International Conference on Rejuvenation of Punjab Economy Punjabi University, Patiala	Agrarian Crisis and Agricultural Labourers in Punjab
6.	4-5 Dec 2013	International Conference on Sustainable Development, Chandigarh	Agriculture for sustainable development in India
7.	19 Feb 2019	International Conference on Innovation, Knowledge Accumulation and Development in the Era of 4th Industrial Revolution, Punjabi University, Patiala	Chaired the session and presented views 4th Industrial Revolution
8.	Jan-Apr 2004	International workshops by ICRA, Netherlands	Agricultural Research for Development
9.	May 2004	International conference by KNUST, Kumasi, Ghana	Participatory Research
10.	13-16 Nov 2000	8th International Soil Science Congress, Islamabad, Pakistan	Water management in Indian Punjab: Socio-economic and policy issues

D. Participation and contribution in National/International Fora in the area of your academic and professional expertise.

Description	National/International	Number(s)
Plenary Lectures/Invited Talks	International	5
	National	25
Congresses attended	International	15
	National	88
Examination etc.	International	2
	National	45
Others (Trainings demonstrations field visits melas)	International	3
	National	50

9. Research Projects

S. No.	Client/ Organization's name	Nature of the Project	Duration of the Project	Amount of Grant (Rupees)
1.	State Government	A Study into Economics of Farming and Financial Position of Punjab Farmers	2005-2018	Regular Grant
2.	NABARD	Loans Overdue and Indebtedness in Punjab Agriculture	1999-2000	-
3.	ICAR	Evaluation of Cotton Production Technologies for Yield, Fiber, Quality and Economic Viability	2002-2007	7.95 lakh
4.	Punjab State Planning Board	Declining Income and Increasing Indebtedness in Punjab Agriculture: An Economic Assessment and Factors Responsible	2003-2005	1 lakh
5.	PSFC	Flow of Funds to Farmers and Indebtedness in Punjab.	2005-2007	2.5 lakh
6.	PSFC	Status of Small Farmers who Left Farming	2006-2007	2.5 lakh
7.	ICAR	A Study on Social Dynamics of Cotton Production in Distress Areas	2007-2009	6.62 lakh
8.	ICAR	Total Factor Productivity of Cotton in India	2007-2011	2.90 lakh
9.	Punjab Mandi Board	Role of Commission Agents in Punjab Agriculture	2008	-
10.	State Government	Farmers' and Agricultural Labourers' Suicides due to Indebtedness in the Punjab State (Census of Bathinda and Sangrur Districts)	2008-2009	10 lakh
11.	State Government	Farmers' and Agricultural Labourers' Suicides due to Indebtedness in the Punjab State (Census of Mansa District)	2009-2010	5 lakh
12.	PSFC	Study on Primary School Education in Rural Punjab	2009-2010	7.5 lakh
13.	State Government	Farmers' and Agricultural Labourers' Suicides due to indebtedness in the Punjab State (Census survey of Ludhiana, Moga, Mansa and Barnala Districts)	2010-2011	10 lakh

S. No.	Client/ Organization's name	Nature of the Project	Duration of the Project	Amount of Grant (Rupees)
14.	ACIAR- University of Adelaide	Zero Tillage Rice Establishment and Crop Weed Dynamics in Rice and Wheat Cropping System in India and Australia	2012	45 lakh
15.	NABARD	Problems of Arhtiyas (Commission agents) vis-à-vis Farmers in Punjab	2012	4.92 lakh
16.	NCAP, New Delhi	Regional Crop Planning for Improving Resource Use Efficiency and Sustainability	2012-2015	19 lakh
17.	ESO, Punjab	District Wise Cost of Cultivation of Important Crops in Punjab	2014-2017	4 Crore 66 lakh
18.	State Government	Farmers and Agricultural Labourers Suicides due to Indebtedness in Punjab	2015-2016	11 lakh
19.	State Government	Social impact assessment of land acquisition projects in Punjab	2016-2018	1 Crore 13 lakh
20.	NCAP, New Delhi	Resource use planning for sustainable agriculture	2017-2018	36.68 lakh

10. Consultancy experience: NIL

11. Honours/Awards & Fellowships for outstanding work: 12

S. No.	Name of Award/Fellowship etc.	Elected/ Honourary Fellow	Awarded by	Year of Award
1.	B. Jawala Singh Thathian Yadagari Puruskar	Dr Sukhpal Singh	Indoz Punjabi Sahit Academy of Australia	2022
2.	Award of Honour	Dr Sukhpal Singh	Indoz Punjabi Sahit Academy of Australia	2020
3.	Dr Nirmal Singh Azad Award	Dr Sukhpal Singh	District Literature Centre Gurdaspur (Regd)	2019
4.	Best Paper Award	Dr Sukhpal Singh	World Punjabi conference	2019
5.	Dr M S Randhawa Award	Dr Sukhpal Singh	Punjab Cultural Society	2016
6.	Parman Patra (State Award)	Dr Sukhpal Singh	Govt. of Punjab	2013
7.	Dr M S Randhawa Best Book Award	Dr Sukhpal Singh	PAU, Ludhiana	2013

S. No.	Name of Award/Fellowship etc.	Elected/ Honourary Fellow	Awarded by	Year of Award
8.	Agro-Scientist of the year 2013	Dr Sukhpal Singh	Confederation of Indian Industry (CII) & MG	2013
9.	Best Paper Presentation Award	Dr Sukhpal Singh	GADVASU, Ludhiana	2012
10.	Dr. Anamitra Saha Award	Dr Sukhpal Singh	ISAE, Mumbai	2011
11.	German Fellowship Award,	Dr Sukhpal Singh	ICRA, Netherlands	2004
12.	Best Paper Presentation Award	Dr Sukhpal Singh	8 th Intl Soil Sc Con., Islamabad, Pakistan	2000

12. No. of Research Scholars successfully guided

Name of Programme	No. of students guided Awarded (No.) (Under-progress not to be included)
M Sc (Agril Economics)	8
Ph D (Agril Economics)	2

13. Strengths

Perseverance backed by academic and intellectual aptitude have kept me thinking ahead of times to understand the perceived challenges and their apt solutions. An in-depth knowledge of the socio-economic structure of the Punjab economy, and critical analysis of the problems at the ground have enabled me to construct effective policy recommendations that have had visible outcomes. My keen engagement on the field and ensuing research work has had significant outcomes, especially in the areas of farm economics and agricultural marketing. The subsequent reports and publications have been the basis of many a policy decisions like, compensation to families of suicide victims, farm debt waiver and direct payment of farm produce. Most recently, my publications pertaining to the farm laws, which are now repealed, presented the perceived impact of these laws on farming, farmers and the state revenue. I have a vast understanding of policy planning and have built vast teams. I have liaison with national and international stakeholders and subsequently mobilised financial resources. Also, my intellectual relationships with different farmer organisations have a strong merit towards implementing various policy decisions.

14. Vision

PAU's mandate of education, research and extension in agriculture and allied subjects has to be strengthened to include dynamic plans and strategies to address multifaceted agrarian challenges. A focus on experiential learning is of paramount importance to be attuned with the evolving society, environment and economy. The research based education needs to become an integral part across all streams. My research study, in collaboration with Punjab State Farmers Commission, on rural education posits the plight of rural education in Punjab.

It is apparent that the number of rural students opting for agricultural courses is not appreciating. The primary reason is the absence of updated comprehensive know-how. This concern can be addressed by incorporating short-term or medium-term courses and trainings, especially in value addition and marketing, to empower the students and encourage entrepreneurship in the rural areas in general and agricultural sector in particular. Parallely, the faculty must be updated.

Though the state agriculture, with a significant contribution of PAU, records continuous improvement in foodgrain production and productivity (the highest in the world), yet the challenges of apparent agricultural unsustainability – economic and ecological – are lurking. With a fast changing climate, achieving agricultural sustainability has become a graver challenge. More so, the intensification of our current agricultural practices, especially monoculture, is also limiting the employment opportunities for workforce in agriculture, now standing at mere 28 days/acre annually. The curriculum needs to focus on not only creating specialist in agriculture but also generalists especially to integrate forward and backward agricultural linkages. This will make the youth employable and enable them to become entrepreneurs. It goes without saying that academic prepping and research and development towards creating new varieties, new crop-mix, agro-processing, marketing, etc. are the core. Moreover, farm policies and programmes must be re-shaped for optimization of crop production, natural resources and human resources. One way could be setting up village/ villages cluster or block level processing, value addition and marketing units for which our extension or outreach programmes require new farmers' support systems and communication strategies especially using Artificial Intelligence for real time resolution of the farm concerns. I see cooperative model of development in agricultural and rural non-farm employment as the core to comprehensive development across the state.

An able and dynamic leadership plays a major role in building an institute par excellence. The optimum use of human, financial and natural resources along with prioritisation of research, teaching and extension on upcoming issues paves the way for achieving this distinction. Though the task of revival of farm economy is challenging, I am confident that a modern institution, focused leadership and a dynamic team will produce knowledge based outcomes/solutions for the desired economic growth and development of our state and the country.

(Dr. Sukhpal Singh)

ACADEMIC ACHIEVEMENTS OF Dr. SUKHPAL SINGH

Publications

A. Books: 2

1. **Singh Sukhpal** and TK Dhaliwal (2011), “*Taking More Than a Commission- A Critique of the Commission Agent System in Punjab Agriculture*”, Aakar Books, Delhi.
2. **Singh Sukhpal** (1996), “*Dynamics of Rural Poverty*” Anmol Publications Pvt. Ltd, New Delhi.

B. Research Papers: 90

1. **Singh Sukhpal** and S Bhogal (2021) MSP in a Changing Agricultural Policy Environment. *Econ and Pol Weekly*. **56**(3):12-15
2. Chaudhary A and **Sukhpal Singh** (2021) Socio-Economic Conditions of Agricultural Labourers in Punjab. *Ind Jour of Agril Econ*. **76**(3): 443-52.
3. **Singh Sukhpal**, M Kaur and HS Kingra (2021) Agrarian Crisis and Agricultural Labourer Suicides in Punjab. *Econ and Pol weekly*. **56** (13):49-56.
4. **Singh Sukhpal**, MK Sekhon, S Kumar and S Bharadwaj (2021) Implications of Organized Retailing in Horticultural Crops in Punjab. *Ind Jour Agri Sci*. **91**(8):1151-4.
5. **Singh Sukhpal**, MK Sekhon and S Kumar (2021) Staggered Public Procurement of Foodgrains in Punjab: Farmers’ Perspective and Challenges in Neo-liberalism. *Ind Jour Agri Sci*. **91**(10):1510-4.
6. **Singh Sukhpal** (2020) Livelihood of Agricultural Labourers in Punjab: Emerging Policy Issues. CDEIS Policy Brief Series on Punjab Economy, Punjabi University, Patiala. (Also published in VWI/VI/.dissectit.com)
7. **Singh Sukhpal**, MK Sekhon, S Kumar, A Kaur, S Bharadwaj (2020) Status and Performance of Display Boards in Regulated Agricultural Markets of Punjab. *Agril Res Journal*. **57**(5)779-84.
8. **Singh Sukhpal** and S Bhogal (2020) Punjab’s Agricultural Labourers in Transition: A Longitudinal Study of Three Decades, *Econ & Pol Weekly*, **55** (26-27): 21-28
9. Singh JM, J Singh, H Kumar, **Sukhpal Singh**, J Sachdeva, B Kaur, S Chopra and P Chand (2019) Management of Paddy Straw in Punjab: An Economic Analysis of Different Technologies, *Ind Jour of Agri Econ*, **74** (3), 301-10.
10. Kingra HS, **Sukhpal Singh**, M Kaur, S Bhogal and R Arora (2019) Capitalisation of Small Farms in Punjab: Magnitude and Policy Issues, *Jour of Agri Dev and Policy*, **29** (1): 58-68.
11. **Singh Sukhpal** (2018), “Death in the Midst of Plenty: Farmer Suicides in Punjab”, *Econ and Pol Weekly*, **53** (19):15-17.
12. Bhullar M S, **Singh Sukhpal**, Kumar S and Gill G (2018), “Agronomic and Economic Impacts of Direct Seeded Rice in Punjab, *Agril Res Journal*, **55** (2) : 236-42.
13. Namami G and **Sukhpal Singh** (2018), “An Analysis of Problems and Constraints Faced by Farmers in Marketing of Agricultural Produce in Punjab”, *Economic Affairs*, **63** (3): 671-78.

14. **Singh Sukhpal**, HS Kingra, S Bhogal and S Bhardwaj (2018), "India's Foreign Trade of Agricultural Products in Free Market Economy", *Ind Jour Econ and Dev*, **14**(2): 219-22.
15. Kaur M, **Sukhpal Singh**, VK Sharma, HS Kingra and R Arora (2018), "Farm Investment and Income Variation Across Different Farm Size Categories and Regions in Punjab", *Ind Jour Econ and Dev*, **14**(1): 330-35.
16. **Singh Sukhpal**, P Kaur, J Sachdeva and S Bhardwaj (2017), "Profitability Analysis of Major Corps in Punjab: Some Evidences from Cost of Cultivation Survey Data". *Ind Jour Econ and Dev*, **13**:71-78.
17. **Singh Sukhpal** and S Bhogal (2016), "Agricultural Credit in Punjab: Magnitude and Policy Issue", In (Ed) Satish Verma, *Rural Indebtedness in Punjab and Other States : Problems and Way Out*, Centre for Research in Rural and Industrial Development (CRRID). Pp 25-36.
18. **Singh Sukhpal** and S Bhogal (2016), "Commission Agents System: What Ought to be Done". *Econ and Pol Weekly*, **51**:130-31.
19. Rao S, **Sukhpal Singh** and AK Mahal (2016), "Factors Discriminating Credit Growth: A Comparison of Punjab and Kerala", *Ind Jour of Econ and Dev*, **12**:811-14
20. **Singh Sukhpal**, VK Sharma, M Kaur, HS Kingra and S Bhogal (2016), "Employment of Different Resources in Punjab Agriculture". *Ind Jour of Econ and Dev*, 12:213-18.
21. **Singh Sukhpal** and Sangeet (2015), "Regulated Agricultural Marketing Infrastructural Development in Punjab". *Econ Affairs*, **60**: 753-60.
22. **Singh Sukhpal**, VK Sharma, M Kaur, HS Kingra and R Arora (2015), "Level and Distribution of Income among Farm Households in Punjab". *Jour of Agril Dev and Policy*, **25**(2):71-80.
23. Sharma VK, HS Kingra, S Bhogal and **Sukhpal Singh** (2015), "Sustainable Agricultural Development and Pattern of Domestic Consumption Expenditure of Punjab Farmers", *Ind Jour of Econ and Dev*, 11:439-47.
24. **Singh Sukhpal** and S Bhogal (2015), "Commission Agent System: Significance in Contemporary Agricultural Economy of Punjab", *Econ and Political Weekly*, **50**(45):56-62.
25. **Singh Sukhpal**, VK Sharma, M Kaur, HS Kingra and S Bhogal (2015), "Pattern of Income and Expenditure of Marginal and Small Farmers in Punjab", *Jour of Agril Dev and Pol*, **25**:106-15.
26. **Singh Sukhpal** and S Bhogal (2014), "Depeasantization in Punjab: Status of Farmes Who Left Farming". *Current Science*, 106 (**10**):1364-68.
27. **Singh Sukhpal** and S Bhogal (2014), "Punjab's Small Peasantry: Thriving or Deteriorating". *Economic and Political Weekly*, 49 (26&27):95-100 (Also published in In (Ed) BB Mohanty (2016) *Critical Perspectives on Agrarian Transition: India in the Global Debate*. Pp 276-92. Routledge Publications).
28. Rao S, **Sukhpal Singh** and A Mahal (2014), "Comparative Analysis of Institutional Agricultural Credit Pattern in Punjab and Kerala" *Jour of Agril Dev and Pol*, **24**(1):23-30.
29. **Singh Sukhpal**, S Bhogal and R Singh (2014), "Magnitude and Determinants of Indebtedness Among Farmers in Punjab" *Ind Jour of Agril Econ*, **69**:243-56.

30. **Singh Sukhpal**, HS Kingra and Sangeet (2013) “Custom Hiring Services of Farm Machinery in Punjab: Impact and Policies” in *Ind Res J of Ext Edu*.13 (2):45-50.
31. **Singh Sukhpal**, VK Sharma and HS Kingra (2013) “Structure and Concentration of Agricultural Land in Punjab” *Jour of Agril Dev and Pol*,**22** (2): 32-41.
32. **Singh Sukhpal** and Sangeet (2013) “Economic Conditions of Agricultural Labourers and Public Policies in Punjab” in (ed.) Ghuman R.S. and Singh Sukhwinder, in *Rural Local Self Government in India: Some Developmental Experiences*, Centre for Research in Rural and Industrial Development (CRRID), Chandigarh Pp:207-16.
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74. **Singh Sukhpal**, M K Sekhon, A Kaur, S Bhardwaj, S Kumar and S Chopra (2019) An Analysis of Market Arrival and Prices of Major Fruits and Vegetables in Punjab, *Research Report*, submitted to Punjab Mandi Board, S A S Nagar, Department of Economics and Sociology, PAU, Ludhiana. Pp:1-120.
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76. **Singh Sukhpal**, S Kumar and S Bhardwaj (2020) Agri-Market Reforms in Bihar: Future Concerns for Indian Agriculture, *Research Report* submitted to Punjab Mandi Board, SAS Nagar, Department of Economics and Sociology, PAU, Ludhiana. Pp: 1-17.
77. **Singh Sukhpal**, M Kaur and HS Kingra (2020) Farmer Suicides in Punjab: Incidence, Causes and Policy Suggestions (2000-2018), *Research Report*, Department of Economics and Sociology, PAU, Ludhiana. Pp:1-26.
78. **Singh Sukhpal**, MK Sekhon, S Kumar, S Chopra, S Bhardwaj, and A Kaur (2020) Staggered Public Procurement of Food grains in Punjab: Need and Challenges, *Research Report*, submitted to Punjab Mandi Board, S A S Nagar, Department of Economics and Sociology, PAU, Ludhiana. Pp: 1-25.
79. **Singh Sukhpal**, MK Sekhon and S Bharadwaj (2021) Role of Markets and Prices in Procurement of Foodgrains in Punjab: Perceptions under the New Farm Acts. *Research Report*, submitted to Punjab Mandi Board, Mohali, Department of Economics and Sociology, PAU, Ludhiana. Pp:1- 33.
80. **Singh Sukhpal**, MK Sekhon and A Kaur (2021) Recent Agri-market Reforms and Development of Agricultural Marketing Infrastructure in Punjab. *Research Report*, submitted to Punjab Mandi Board, Mohali. Department of Economics and Sociology, PAU, Ludhiana. Pp:1- 27.
81. **Singh Sukhpal**, MK Sekhon, A Kaur, M Goyal, H Maavi, S Chopra, A Chaudhary and S Bharadwaj (2021) FPOs in Punjab: Strength, Performance, and Scaling up Potential. *Research Report*, submitted to Punjab Mandi Board, Mohali. Department of Economics and Sociology, PAU, Ludhiana. Pp:1- 60

D. Extension Publications: 82

1. **Singh, Sukhpal** (2000), "*Kheti vich vansuvanta hun same di mukh lor*" Punjabi Tribune, Dec 13.
2. **Singh, Sukhpal** and G. S. Romana (2001), "*Safal kheti lai kheti record jarur Rakho*" Changi Kheti, March, pp 19-21.
3. **Singh, Sukhpal** (2001), "*Punjab di kisani da arthik sankat*" Desh Sewak, September 8.
4. **Singh, Sukhpal** and G.S. Buttar (2002), "*Samay di mukh lor: vansuvani kheti*" Changi Kheti, May.
5. **Singh, Sukhpal** and Avtar Singh (2002), "*Kheti Janglat, Kheti vich vansuvanta liyao*" Jag Bani, Jan 21.
6. **Singh, Sukhpal**, H. S. Kingra and P. Kaur (2003), "*Kheti Sadhana di suyog varton*" Changi Kheti, September, pp 15-17.
7. **Singh, Sukhpal**, M. Kaur and H. S. Kingra (2005), "*Dairy Farming can Increase Income of Farmers*" Progressive Farming, Vol. XXXXI (VI), June, pp 10-11.
8. **Singh, Sukhpal**, M. Kaur and H. S. Kingra (2005), "*Akal Vartian Vardan Ban Sakda Hai -Pasu Palan,*" Changi Kheti, 40 (6), June, pp 20-21.
9. **Singh, Sukhpal**, G. S. Romana and H. S. Kingra (2005), "*Karje di Mar: Pagri Sambhal O Jatta*", Changi Kheti, 40 (7), July, pp 22-23.
10. **Singh, Sukhpal** (2008), "*Punjab di Kisani ate Arthiya System: Faslan di Checkan Rahi Adayigi ek Thos Kadam*", *Punjabi Tribune*, January 1.
11. **Singh, Sukhpal** (2008), "*Punjab de Khet Mazdooran di Arthak Smazak Dasha: Buniyadi Zarurtan wal dhiyan dein di Lor*", Punjabi Tribune, March 3.
12. **Singh, Sukhpal** (2008), "*Karza Muafi Package ate Punjab da Kheti Sector: Kheti Nu Munafe yog Banuona hi sahi hal*", Punjabi Tribune, July 15.
13. **Singh, Sukhpal** (2008), "*Punjab Vich Khet Mazdoor-Ek Jhat*", Changi Kheti, September 43 (4).
14. **Singh, Sukhpal** (2008), "*Parwasi Mazdooran bare Sahi Darishatikon di Lor-Punjab di Kheti vich Vadmula yogdan*", Punjabi Tribune, September 1.
15. **Singh, Sukhpal** (2008), "*Punjab di Chhoti Kisani da Uljhiaya Arthchara*", Punjabi Tribune, November 28.
16. **Singh, Sukhpal** (2009), "*Azoka Kheti Sankat ate Chhoti Kisani da Bhavikh*", Nawan Zamana, June 7.
17. **Singh, Sukhpal** (2009), "*Kisan Khudkusian*", Punjabi Tribune, July 12.
18. **Singh, Sukhpal** (2009), "*Badlde Paidawari Sabandh-Punjab di Kheti Aarthikta*", Punjabi Tribune, May 19.
19. **Singh, Sukhpal** (2009), "*Sahukare da pasara te majuda halat*", Punjabi Tribune, October 2.
20. **Singh, Sukhpal** (2010), "*Rural economy of the State*" The Tribune, January, 23.
21. **Singh, Sukhpal** (2010), "*Halo behal Jagga jatt*" Punjabi Tribune, February 7.

22. **Singh, Sukhpal (2011)** ‘Kheti Model ne pinj dita hai Punjabi Banda’ in Punjab Times, Vol. 12 (47), Nov. 19.
23. **Singh Sukhpal (2011)** “Kheti Model Duara Utpan Kitian Trashdian” *Sarokaran Di Awaz, Vol.1 (5)*, pp 6-9.
24. **Singh Sukhpal, H S Kingra and M Kaur (2012)** “Agrarian Crisis and Indebtedness in Punjab” *Progressive farming*, Vol. 48 (1), pp 25 and 27.
25. **Singh Sukhpal, H S Kingra and M Kaur (2012)** “Punjab vich Kheti Sankat ate Karze di Samasiya” *Changi kheti*, Vol. 48 (1), pp 8-9.
26. **Singh Sukhpal (2012)** “Parwasi Mazdooran Prati Drishtikon da Sawal” *Sarkaron ki Awaz*, Vol. 1 (7) Feb., pp-11-14.
27. **Singh Sukhpal (2012)** “Kheti Karja Rahat Bill da Mahatav” *Punjabi Tribune*, 20th June, p 6.
28. **Singh Sukhpal (2012)** ‘*Prachhon Khetar Vich Videshi Nivesh de Prabhav*’ in Punjabi Tribune, 30th October.
29. **Singh Sukhpal (2013)** ‘*Dairy Farming: A Boon for Small Farmers*’ in Progressive Farming, Feb. :5-6.
30. **Singh Sukhpal (2013)** ‘*Custom Hiring of Farm Machinery: A Boon for Small Farmers*’ in Progressive Farming, April: 5-6.
31. **Singh, Sukhpal (2013)** ‘*Chhote Kisanan Layi Vardaan Hai Dairy Da Kitta*’ Cahngi Kheti, February :5-6.
32. **Singh, Sukhpal (2013)** ‘*Punjab Vich Shahookara Karze Sambandhi Kanoon di Lor*’ Ajit, July 8.
33. **Singh, Sukhpal (2013)** ‘*Karze ch vinni kisani nu raahat kiwen mile*’ Ajit, July 20.
34. **Singh, Sukhpal (2014)** ‘*Kyon nahi ho sakeya kheti khetar da santulat vikas?*’ Ajit, Feb 2.
35. **Singh, Sukhpal (2014)** ‘*Kiven hal ho sakda hai kheti sankat?*’ Ajit, Feb 3.
36. Kumar, Raj, Singh JM and **Singh Sukhpal (2015)**, “Hybrid Seed Production of Sunflower and Maize is a Paying Enterprise”, *Progressive Farming*, January:24-25
37. Kumar Raj, Singh Jasdev and **Singh Sukhpal (2015)**, “Prospects of Basmati Cultivation in Punjab during 2015-16”, *Progressive Farming*, May: 26
38. Kumar Raj, Singh Jasdev and **Singh Sukhpal (2015)**, “*Punjab Vich Basmati Jhone Di Kasht Diyan Sambhavnayan, Changi Kheti*, May: 29.
39. Kumar, Raj, Singh JM and **Singh Sukhpal (2015)**, “*Surajmukhi Ate Makki Da Dogla (Hybrid) Beej Utpadan: Amdan Vadaun Da Ik Vadiya Vikalp*”, *Changi Kheti*, January:21-23.
40. Kumar, Raj and **Singh Sukhpal (2014)**, “*Sauni Diyan Nirdharit Phaslan De Ghatto Ghatt Samrath Mul*”, *Changi Kheti*, September:22
41. **Singh Sukhpal** and Bhogal Shruti (2016), “The Forgotten Ones: Looking at Agricultural Labourers”. *The Tribune*, May 3, 2016.
42. Kumar R, **Singh Sukhpal** and Kingra H S (2015), “Direct Payment Scheme for Farmers”. *Progressive Farming* 51(8):15.

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44. Kumar R, **Singh Sukhpal** Kingra H S (2015), “MSP’s and Marketing Charges for Kharif Crops 2015-16”. *Progressive Farming* 51(9):13-14.
45. Kumar R, **Singh Sukhpal** and Kingra H S (2015), “Sauni Dian Phaslan De Ghato Ghat Samarthan Mull Ate Mandi Kharche”. *Changi Kheti* 51(9):20-21.
46. Kumar R and **Singh Sukhpal** (2016), “PAU Paddy Varieties Rule Over Punjab Farmers' Heart and Fields”, *Progressive Farming* **52** (9): 10 & 23.
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50. **Singh Sukhpal** (2017), “Punjab Di Kheti Da Sankat Ate Es Da Hal”, *Punjabi Tribune*, July 31 p 6.
51. **Singh Sukhpal** and Bhogal S (2017), “Landless Labour Fighting for a Bare Minimum”, *The Tribune*, June 27, p 9.
52. **Singh Sukhpal** (2017), “Kiven Karja Mukat Hon Punjab De Khet Mazdoor”, *Punjabi Tribune*, July 1 p 6.
53. Dhillon B S and **Singh Sukhpal** (2017), “Farmer Suicides: Let’s Stop Blame Game” *Punjabi Tribune*. (Also published in *Progressive Farming and Changi Kheti*)
54. **Singh Sukhpal** (2018), “Asin Eithe Vasna”, *Hun*, May-August, **39**: 222-27.
55. Dhillon B S and **Singh Sukhpal** (2018), “A Pricey Affair: Field on Fire”, *The Tribune*, September 10.
56. **Singh Sukhpal** (2020) *Ordinance ate kheti arthchare da bhavikh*, *Punjabi Tribune*, June 16.
57. **Singh Sukhpal** (2020) *Kheti Ordinance: Kujh ahim Muddiyan te Jhaat*, *Punjabi Tribune*, July 1.
58. **Singh Sukhpal** (2020) *Debt on Farm Labourers four times their annual income*. *The Tribune*, November 1.
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60. **Singh Sukhpal** (2021) *Naven kheti kanonan ton bad kisani da ki ba neg a*. *Punjabi Tribune*, January 16.
61. **Singh Sukhpal** (2021) *Budget proof govt still promoting agri laws, has no intention to make MSP legal*. *The Indian Express*, February 2.
62. **Singh Sukhpal** (2021) *Right MSP: What govt pays and what farmers say they deserve*. *The Indian Express*, February 17.
63. **Singh Sukhpal** (2021) *Kendri budget kheti khetar nu corporate hawale karega*. *Punjabi Tribune*, February 22.

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68. **Singh Sukhpal** (2021) *If APMC mandis go, MSP will vanish*. *Frontline* 38(2): 3134
69. **Singh Sukhpal** (2021) *Naven kheti kanoor: Mazdoor warg te sambhavi asar*. Punjabi Tribune, May 3.
70. **Singh Sukhpal**, Kumar Sunny and Bharadwaj Sumit (2021) *Contentious farm laws: What the Bihar experience shows*, <https://www.downtoearth.org.in/blog/agriculture/contentious-farm-laws-what-the-bihar-experience-shows-75989>.
71. **Singh Sukhpal**, Kumar Sunny and Bharadwaj Sumit (2021) *Contentious farm laws: Agri reforms led to farm income decline, land concentration in Bihar* <https://www.downtoearth.org.in/blog/agriculture/contentious-farm-laws-agri-reforms-led-to-farm-income-decline-land-concentration-in-bihar-76029>.
72. **Singh Sukhpal** (2021) *Khetibadi Kanoon: Eh jamood kyon*. Punjabi Tribune, August 13.
73. **Singh Sukhpal** (2021) *Faslan de laheband bhaw ate yakeeni khareed*. Punjabi Tribune, September 14.
74. **Singh Sukhpal** (2021) *Kisan Khudkushian: Sarkari Reportan da Kach Sach*, Punjabi Tribune, November 2.
75. **Singh Sukhpal** (2021) *Kisanon aur khetihar mazdooron ki khudkushi*. Janpath, November 7.
76. **Singh Sukhpal** (2021) *Farm Suicides: Government reports far from reality*. Groundxero, November 11.
77. **Singh Sukhpal** (2021) *MSP is insurance against anarchy in future: An Interview*, News Click, November 25.
78. **Singh Sukhpal** (2021) *Legal Guarantee of MSP and Procurement: Need of the hour*. Groundxero, November 26.
79. **Singh Sukhpal** (2021) *Faslan di MSP ate Khareed da Masla*. Punjabi Tribune, November 27.
80. **Singh Sukhpal** (2022) *Corporate galba chon mudaa kyon na banya?* Punjabi Tribune, February 16.
81. **Singh Sukhpal** (2022) *The erasure of the issue of corporate dominance in Punjab*. Groundxero, February 18.
82. **Singh Sukhpal** (2022) *Punjab di navi sarkar lyi arthik chunotiyen*. Punjabi Tribune, March 7.

E. Papers Presented in seminars/conferences: 96

(a) National 76

1. Presented research paper entitled, "Impact of Globalization on Agricultural Research" in the *16th Punjab Development Conference on Globalization-Liberalization and Punjab Economy*, held at Punjabi University Patiala on January 13-15, 1999.
2. Presented research paper entitled, "Impact of Globalization on Oilseed Research" in the *National Seminar on Oilseeds and Oils- Research and Development needs in the Millennium*, Hyderabad, Feb. 2-4, 2000.
3. Presented research paper entitled, "Management of Dairy Cattle Farms in Punjab" in the *National Symposium on Import and Utilization of Exotic Germplasm of Dairy Cattle* on October 11-12, 2001, Punjab Agricultural University, Ludhiana.
4. Presented research paper entitled, "Poplar Cultivation in South-Western Punjab: Problems and Policy Issues", *National Symposium on Agroforestry in 21st Century* at PAU, Ludhiana on Feb. 11-14, 2002.
5. Presented research paper entitled, "Indebtedness among Small Farmers in Rural Punjab" in the *Seminar on Agrarian Crisis in Punjab* at Govt. N.M. College, Mansa on Sept. 28, 2002.
6. Presented research paper entitled, "Cost and Profitability of Wheat and Rice Crops in Punjab: Sustainability in Economic Perspective" in the *Seminar-cum-Workshop on Transitional Crisis in Green Revolution Belt and Response of Public Policy* at Punjabi University, Patiala on March 30, 2003.
7. Presented research paper entitled, "Ground Water Management in Punjab-Issues and Policies" in the *National Seminar on Emerging Issues and Problems in the North-West Region of India Under the New Economic Policy Regime* at Punjabi University Patiala on August 18-19, 2004.
8. Presented research paper entitled, "Insecticides Resistance Management Cotton Production Technologies in Punjab-An Evaluation" in *8th Punjab Science Congress* at Punjabi University, Patiala on February 7-8, 2005.
9. Presented research paper entitled, "Indian Agriculture in the Beginning of 21st Century" in the *National Seminar on Agriculture in the cross Roads*, Panjab University, Chandigarh on February 10, 2005.
10. Presented research paper entitled, "Non-institutional Financial Resources in Punjab Agriculture" in the *National Seminar on Financial Sector Reforms: Contemporary Issues & Challenges* at Punjabi University, Patiala on February 11, 2005.
11. Presented research paper on, "Diversification in Punjab Agriculture- Issues and Policies" in the *state level Seminar on Agriculture Diversification in Punjab: Prospects and Challenges* at RSD College, Ferozepur, Punjab on March 5, 2005.
12. Presented research paper on, "Agricultural Development in Punjab-Some Environmental Issues" in the *National Seminar on Policy Reforms in India: Some Economic, Social and Political Issues* at Punjabi University, Patiala on March 22-23, 2005.
13. Presented research paper on, "Corporate v/s Co-operative Governance in the Context of Punjab Agriculture" in the UGC Sponsored *National Conference on Corporate Governance in India* at M.G. College, Fatehgarh Sahib on November 4-5, 2005.

14. Presented research paper entitled, "Agrarian Crisis with Special Reference to Indebtedness among Punjab Farmers" in the 65th Annual Conference of Indian Society of Agricultural Economics organized by Punjab Agricultural University, Ludhiana on 24-26, November, 2005.
15. Presented research paper on, "Agrarian Crisis, Agricultural Labour and the State: A Case Study of Punjab" in the 47th Annual Conference of the Indian Society of Labour Economics at Jawaharlal Nehru University, New Delhi on December 15-17, 2005.
16. Presented research paper on, "Production and Marketing of Inland Fish in Punjab" in the Workshop on Fisheries & Aquaculture in Indus River Region-Conservation, Management and Development of Indigenous Fish Fauna at PAU, Ludhiana on December 21-22, 2005.
17. Presented research paper on, "World Trade Organisation and Punjab Agriculture" in the National Seminar on Changing Paradigm of Development under Globalization and WTO regime (with special reference to Indian Economy) at Kamla Lohtia S.D. College, Ludhiana on Jan 18-19, 2006.
18. Presented research paper on, "Agricultural Diversification in Punjab" in the Seminar on Agricultural Diversification at Khalsa College Garhdiwala, Punjab on Feb 28, 2006.
19. Presented research paper on, "Economic Impact of Bt Cotton Cultivation in Punjab" in the 14th Annual Conference of Agricultural Economic Research Association (India) at Pantnagar on September 27-28, 2006.
20. Presented research paper on, "Agricultural Labour and the State: A Case Study of Punjab" in the 10th Annual Conference of North West Indian Sociological Association at Punjab Agricultural University, Ludhiana on November 16, 2006.
21. Presented research paper on, "WTO and India" in the UGC National Seminar on WTO and Its Impact on India at Guru Nanak Khalsa College, Sultanpur Lodhi on December 15-16, 2006.
22. Presented research paper for Agricultural officers' Workshop for Kharif Crops, 2006-07 at Punjab Agricultural University, Ludhiana.
23. Presented research paper on, "Globalisation and Indian Agriculture" in the Punjab University Sponsored seminar on Challenges and Opportunities in Rural India-in an Era of Globalisation at A.S. College, Khanna, Punjab on February 14, 2007.
24. Presented research paper on, "Farmers' Participation and Implication of Special Economic Zones in Punjab" in the 20th Annual Conference of Indian Society of Agricultural Marketing at Nagpur on February 22-24, 2007.
25. Presented research paper on, "Evaluation of Cotton Production Technologies for Yield, Fiber Quality and Economic Viability" at CICR, Nagpur on February 27-28, 2007.
26. Presented research paper on, "New Economic Policies and Post Green Revolution Punjab" in the UGC sponsored Seminar on Post Green Revolution in Punjab: Economic Crisis and Challenges on Governability at D.M. College, Moga on March 21, 2007.
27. Presented research paper on, "Total Factor Productivity of Cotton in India" at Central Institute of Cotton Research, Nagpur on June 7, 2007.

28. Presented research paper on, "Agricultural Development in Haryana: A Case Study of Mohindergarh District" in *the Annual Conference of Indian Economic Association* at Kurukshetra on December 27-28, 2009.
29. Presented research paper on, "Suicides among Farmers in India-Causes and Policy Issues" in Indian Society of Agricultural Economics Sponsored Seminar on *Farming and Farmers' Suicides in Punjab*" at Khalsa College, Amritsar on November 20-21, 2009.
30. Presented research paper on, "Agrarian Crisis and Status of Agricultural Labour in Punjab" in *51th Annual Conference of the Indian Society of Labour Economics* at Punjabi University, Patiala on 11-13 December, 2009.
31. Presented research paper on, "Agrarian Crisis in India-Issues and Alternative Models" in *69th Annual Conference of Indian Society of Agricultural Economics* at GNDU, Amritsar on December 17-19, 2009.
32. Presented research paper on "Role and Status of Commission Agents in Punjab Agriculture" in the Seminar organized by NABARD on *Role of Private Moneylenders in India*, Chandigarh on Jan 22, 2010.
33. Presented research paper on "Agricultural Crisis and Suicides among Farmers in Punjab" organised by Institute of Sikh Studies at Chandigarh on Jan 23, 2010.
34. Presented research paper on "Indo-Pak Agrarian Relations: Issues and suggestions" in the seminar on *Indo-Pak Relations- Role of media* at Parwan Hall, Patiala on April 10, 2010.
35. Presented research paper on "Agricultural Development Model of Punjab" in the seminar organized by *Cancer Roko Jagriti Manch Mansa*, Punjab on July 25, 2010
36. Presented research paper on "Present Marketing System and Direct Payment to Farmers" in Parbhat Parwana Hall, Patiala on August 14, 2010
37. Presented paper on "Farmers' Distress in Green Revolution Belt of India" in the seminar on *Modernity and Changing Social Fabric of Punjab and Haryana* at Indian Institute of Advanced Study (IIAS), Shimla from September 27-29, 2010.
38. Delivered a lecture on "Rural Development in Punjab" organized by NSS Punjabi University, Patiala at Sandhur on November 20, 2010.
39. Delivered a lecture on "Agrarian Crisis in Punjab" at DAV college, Amritsar on November 25, 2010
40. Presented a paper on "Agrarian Crisis, Indebtedness and Farmers' Suicides in Punjab" under the sub- theme *Prospects and Challenges of Economy of North-West India*, in the 93rd Annual Conference of Indian Economic Association held from 27-29 December, 2010.
41. Chaired session and presented paper in National Seminar (UGC sponsored), "Socio-economic Development in Punjab" at Public college, Samana, Patiala on February 25-26, 2011.
42. Chaired session and Presented paper on "Migrant Labour in Punjab" in National Seminar sponsored by ICSSR (North West Regional Centre) on *Violation of Human Rights on Migratory Labour in Punjab* at Guru Nanak National College, Doraha, Ludhiana on March 12-13, 2011

43. Delivered a lecture on “Suicides in Rural Punjab” at Khalsa College for Women, Ludhiana on March 16, 2011.
44. Presented paper on “Rural Economy of Punjab: Problems and Suggestive Measures” as special invitee at Hemjyoti lecture at Punjabi Bhawan, Ludhiana on August 14, 2011.
45. Presented paper on “Neo-Liberalism and Rising Graph of Corruption in India” in UGC sponsored National Conference on *Corruption in India* at Govt. N M College, Mansa on Sept. 10, 2011.
46. Presented paper on “Problems of Small Farmers in Punjab” in the seminar on *Agrarian Crisis in Punjab* at Punjabi University Neighbourhood Campus, Rampura Phul on Sept. 24, 2011.
47. Presented paper on “Plight of Agricultural Labour and the State Policies in Punjab: Need for Effective Rural Development Programmes” in the seminar on *Role of Panchayats in Rural Development* by CRRID on October 21, 2011.
48. Presented paper on “Problems and Prospects of Dairy Farming in Punjab” in 19th National Symposium of Indian Society of Animal Production and Management, Department of Livestock Production Management, GADVASU, Ludhiana on Nov 2-4, 2011.
49. Presented paper on “Development and Rural Poor” in seminar on *Human Rights and Human Development* at Mahindra College, Patiala on Nov. 18, 2011.
50. Presented paper on “Agrarian Crisis in Punjab: Dimensions and Policy Issues” in the 15th Punjab Science Congress, at G N D U, Amritsar on 7-9 Feb, 2012.
51. Presented paper on “Status of Rural Education in Punjab” at National Seminar on *Right to Education* at Deptt. of Education, Punjabi University Regional Centre, Bathinda on Feb 13, 2012.
52. Presented paper on “Agrarian Crisis and Water Management in Punjab” in the training on *Water Resources Management for Sustainable Food and Water Security* at PAU Research Station, Bathinda on 27 Feb, 2012.
53. Presented paper on “Declining Water Table and Increasing Indebtedness in Punjab” in the training on *Water Resources Management for Sustainable Food and Water Security* at PAU Research Station, Bathinda on 28 Feb, 2012.
54. Presented paper on ‘Marketing Strategies and Problems of Kinnow Cultivation in Punjab’ in National Seminar on “New Frontiers and Future Challenges in Horticultural Crops”, Punjab Agricultural University, Ludhiana on 15-17 March, 2012.
55. Presented paper on ‘Crisis in Punjab Agriculture’ in the workshop on “Development of Punjab Economy” at Punjabi University, Patiala on May 3, 2012.
56. Presented paper entitled “Agricultural Labour and the State”, in the seminar on *Labour and Employment* organised by ESO, Chandigarh at Panjab University, Chandigarh on June 29, 2013.
57. Presented paper entitled, “Food Security: Some fundamental Issues”, in the seminar on *Water and Food Security in India*, sponsored by Indian Society of Agricultural Economics at Institute of Development and Planning, Khalsa College Amritsar, on 8-9 November, 2013.

58. Presented paper on “Changing Pattern of Rural Workforce and Process of Depeasantisation in Punjab” in *55th Annual Conference of Indian Society of Labour Economics* at JNU, New Delhi on December 16, 2013.
59. Presented paper titled “Composition and Directions of Trade of Agricultural Products in Post-Liberalization Era” in the conference held at Punjab Agricultural University, Ludhiana, on 19-21 November, 2015.
60. Presented paper titled “Employment of Different Resources in Punjab Agriculture” in the 3rd National Seminar on *Market Imperfections, Farmers’ Distress, and Agrarian Crisis in India* organized by the Society of Economics and Development at Punjab Agricultural University, Ludhiana on April 7, 2016.
61. Presented paper on "Growth and Crisis in Punjab Agriculture" in the *National Conference on emerging issues in India*, Govt. N M College, Mansa on April 25, 2017.
62. Presented paper on "Crisis of Punjab Farmers- Causes and Solution" at *39th Prof. Mohan Singh Memorial Mela* Organized by the Prof. Mohan Singh Memorial Foundation, Punjabi Bhawan, Ludhiana on Oct. 20, 2016
63. Presented paper in the Workshop on Draft Model Act 2016 at Kisan Bhawan, Chandigarh on March 7, 2017
64. Presented Paper on “Farmers’ Suicides: Causes and Suggestions” on *World Suicides Prevention Day*, Pal Auditorium, PAU, Ludhiana 10 Sept 2017.
65. Presented Paper on “Punjab Agrarian Crisis: Issues and Policies”, M M Modi College, Patiala, Feb 2018.
66. Paper Presented on “Crisis of Farmers and Agricultural Labourers in Punjab: Issues and Policies”, Mai Bhago Degree College (Girls), Ralla, Mansa March 3, 2018.
67. Presented paper on “Agricultural Economy of Punjab” in the seminar on *Doubling Farm Income-A collaborative Effort* at Hotel Hyatt Regency, Chandigarh on March 9, 2018.
68. Paper Presented on “ Trade Rules and Agriculture” at Indian School of Business, Mohali On April13, 2018.
69. Presented Paper on “Agrarian Economy of Punjab: Some Important Issues, Regional Centre, Ghanour, Punjabi University, Patiala on Jan 27, 2019.
70. Paper Presented on National Seminar, “Rural Suicides in Punjab: Causes and Mitigating Strategies,” CRRID, Chandigarh on Jan 28, 2019
71. Presented Paper on “Agrarian Crisis in Punjab: Issues and Policies, Punjab Kala Bhawan, Chandigarh on 15 Feb, 2019.
72. Presented Paper on “Marketing Problems of Punjab Agriculture” at National Seminar at Khalsa College, Garhdiwal, Punjab on Feb. 16, 2019.
73. Paper Presented on “Rural Transformation and Education, Panjab University, Chandigarh on 29 March, 2019.
74. Presentation of the findings of ‘District-wise Cost of Cultivation Study for Important Crops in Punjab’ to the H’ble Finance Minister, Punjab at Civil Secretariat, Chandigarh on August 27, 2019.

75. Presented paper entitled 'Poverty Amidst Plenty: A Case of Small Landholders in Punjab' at 27th Annual Conference of Agricultural Economics Research Association (AERA), India on "Changing Landscape of Rural India" during 17-19 December 2019 at Punjab Agricultural University (PAU), Ludhiana, Punjab.
76. Presented paper entitled 'Implications of New Farm Technology: A Case of Small Peasantry in Punjab' at the 61st Annual Conference of the Indian Society of Labour Economics held on 7-9 December 2019 at Patiala, Punjab.

(b) International: 20

77. Presented research paper entitled, "Water Management in Indian Punjab: Socio-economic and Policy Issues", in the 8th *International Soil Science Congress, Islamabad, Pakistan* on November 13-16, 2000.
78. Presented research paper entitled, "Sustainability of Punjab Agriculture: Issues and Suggestions" in the 2nd *International Conference on Sustainable Agriculture, Water Resources Management and Earth Care Policies* at New Delhi on December 18-20, 2002.
79. Presented research paper entitled, "Economics of Buffalo Milk Production in Punjab" in the 4th *Asian Buffalo Congress* at New Delhi on Feb. 25-28, 2003.
80. Presented Paper on Status of Indian Agriculture in International workshop at ICRA, Netherlands, Feb 2004.
81. Presented Paper on Cassava Cultivation in Ghana at KN University of Science and Technology, Kumasi, Ghana, May 2004.
82. Presented research paper entitled, "Magnitude and Determinants of Indebtedness in Punjab Agriculture" in the *International Conference on Punjab Peasantry in Turmoil* at Punjabi University, Patiala on January 27-28, 2005.
83. Presented research paper on, "Changing Economic Relations of SADC countries in the Wake of Globalisation" in *International Seminar on India and SADC: Role and Importance of South Africa*, Organised by Department of Distance Education, Punjabi University, Patiala in Collaboration with African Studies Association of India on October 9-10, 2009.
84. Presented research paper on, 'Land Use Pattern in Indian Punjab and Pakistani Punjab' in *Asia Peace International Seminar* at PAU, Ludhiana on February 13-14, 2010.
85. Presented research paper on, "Agricultural Crisis and Farmers' Suicides in Punjab" in the 26th *International Punjabi Development Conference* at Punjabi University, Patiala on January 27-29, 2010
86. Presented paper on "Non-institutional Debt in Rural Punjab" in the 28th *International Punjabi Development Conference*, Punjabi University, Patiala on 1-3 Feb, 2012.
87. Presented paper on "Agriculture for sustainable development in India" in *International Conference on Sustainable Development*, Chandigarh, on December 4-5, 2013.
88. Presented paper entitled "Agricultural Economy of Punjab: Growth to Crisis" in International Conference on *Crop Productivity & Sustainability- Shaping the Future* at Baba Farid Group of Institutions, Bathinda on March 20-21, 2014.

89. Presented paper entitled “Agrarian Crisis and Agricultural Labourers in Punjab” in the International Conference on *Rejuvenation of Punjab Economy* at Punjabi University Patiala on March 21-23, 2014.
90. Presented paper on "New Agricultural Technology and Punjab Farmers" in *33rd International Punjabi Development Conference* at Punjabi University, Patiala on January 18, 2017.
91. Presented Paper and Chaired session in *International Conference on Innovation, Knowledge Accumulation and Development in the Era of 4th Industrial Revolution* organized by Department of Economics, Punjabi University, Patiala, 2018.
92. Presented paper on “Economy, Peasantry and suicides” in *6th World Punjabi Conference*, Organized by World Punjabi Conference (Regd.) and Punjab Art Council, at Panjab University, Chandigarh, March 10-11, 2018.
93. Chaired session at International conference on Innovation, Knowledge Accumulation and Development in the Era of 4th Industrial revolution, Punjabi University Patiala, Feb19, 2019
94. Paper Presented on “Migration and Rural Society of Punjab” at 5th World Punjabi Conference, Brampton, Ontario, Canada on 29 June, 2019.
95. Paper Presented on “Crisis of Rural Economy of Punjab: Some Solutions” at International Punjabi Scholars Conference, Bakersfield, California, USA on 20 July, 2019.
96. Presided over the Seminar on ‘Agriculture, Farming and Rural Economy’ and presented paper on ‘Agrarian Economy and Migration’ in the Seminar on ‘Agriculture, Farming and Rural Economy’ in the seminar organized by Indo Punjab Sahit Academy of Australia at Brisbane (Australia) on March 8, 2020.

TOTAL: 351

Extension and Field Outreach Activities: 121

A. Radio/TV Talks: 41

1. Delivered radio talk on the topic ‘Efficient Marketing of Grapes’ on Feb. 20, 1999.
2. Delivered radio talk on the topic ‘Need for Diversification of Agriculture’ on May 15, 1999.
3. Delivered radio talk on the topic ‘Dairy Farming- Problems and Prospects’ on Feb. 2000.
4. Delivered radio talk on the topic ‘Reduce costs of cultivation and increase profit’ on October 19, 2001.
5. Delivered radio talk on the topic ‘Efficient Marketing of Vegetables’ on Nov. 2001.
6. Delivered radio talk on the topic ‘Future of Dairying during GATT Agreement’ on January 16, 2002.
7. Delivered radio talk on the topic ‘Efficient Farm Management: Need of the Hour’ on May 29, 2002.
8. TV Talk on ‘Indebtedness among Punjab Farmers’ in the Programme ‘Mere Pind Mere Khet’ D D Jalandhar, Dec 25. 2007.

9. T V Talk on 'Union Government Debt Waiver Scheme-2008' D D Chandigarh/ Jalandhar, June 24, 2008.
10. Discussion on TV on Issue of Farmers' Suicide and Indebtedness in Punjab, Zee Punjabi, Chandigarh, April 15, 2009.
11. Participated in the Panel discussion on "Agrarian Economy" at ZEE-TV, Mohali on September 9, 2010.
12. Participated in the discussion on TV (Day and Night) regarding Farm Debt Bill at Chandigarh on October 12, 2010.
13. Participated in the discussion on TV (PTC-Punjabi) regarding Food Security in India at Chandigarh on November 10, 2010.
14. TV Talk on '*Bhumi Grahin Bill* -2011(Land Acquisition Bill- 2011)', PTC News, Sept. 9, 2011.
15. TV Talk on "Population Explosion and Food Security" at PTC News, October 2011.
16. TV Talk in "Adequate Utilisation of Agricultural Credit" in "Mera Pind Mere Khet" on Nov. 4, 2011.
17. TV Talk on "Role of Commission Agents in Punjab Agriculture" at Jalandhar Doordarshan on Nov. 9, 2011.
18. TV Talk on "Economic Impact of Rising Graph of Cancer in Malwa Region" at Jalandhar Doordarshan on Nov. 14, 2011.
19. TV Talk on "Some Tips to make Farming more Profitable" at Jalandhar Doordarshan on Nov. 23, 2011.
20. Radio Talk on "Agricultural Development Model and its Effects on Socio-Economic Life" in the programme 'Salam Zindagi' on Dec. 2011.
21. TV Talk on "Efforts for Small farmers in New Year" at Jalandhar Doordarshan on Jan. 7, 2012.
22. TV Talk on "Small Peasantry of Punjab: Problems and Solutions" in "Mere Pind Mere Khet" at Jalandhar Doordarshan on Feb. 21, 2012.
23. TV discussion on "Farmers and Agricultural Labourer Suicides- Causes and Remedies", November 1, 2012.
24. TV Talk on "Farmers' Suicides- Causes and Suggestions" at Jalandhar Doordarshan on April 17, 2012.
25. Delivered TV talk on "Problems of Small Farmers: Causes and Remedies", DD Jalandhar, Mera Pind Mere Khet, Aug 9, 2016
26. Delivered Radio talk on Red-FM-Canada, on Small Peasantry in Punjab on Aug. 8, 2016
27. Delivered TV talk on Farmer Suicides; Causes and Remedies, Fast Way, Ludhiana, Nov. 2016
28. Delivered TV talk on Small Peasantry in Punjab, DD Jalandhar, Mera Pind Mere Khet, Dec.8, 2016
29. Delivered TV talk on Agriculture development and crisis, Fast Way, Ludhiana, Feb 2017

30. Delivered TV talk on "Optimum Use of Agricultural Loan" in Sada Sohna Punjab Programme at Chandigarh on March 28, 2017
31. Delivered TV talk on Farmers Indebtedness in Punjab, Fast Way, Ludhiana, April 2017
32. Responded to questions of farmers at Kisan Mela, PAU Ludhiana, Sept 20, 2018.
33. Live TV talk on "Efficient Use of Farm Credit" in Mera Pind Mere Khet, Doordarshan Kendra Jalandhar, November 6, 2018.
34. Radio Talk on "Government initiatives and agricultural sector", AIR Jalandhar, December 2018
35. Responded to questions of farmers at Kisan Mela PAU Ludhiana on March 15-16, 2019.
36. TV Talk on Punjab Agriculture and Development at TV Channel Punjabi, Toronto, Canada on July 2, 2019.
37. Radio Talk on Role of Agriculture in Rural livelihood at California, USA, on June 15, 2019.
38. Radio Talk on Agriculture Economy and Migration at Bakersfield, USA on 20 July, 2019.
39. Delivered a radio talk on "Naven kheti kanoonan da Punjab di arthikta te prabhav" on Radio Apna Live, Winnipeg, Canada on October 5, 2020
40. Delivered a radio talk on "Implementation of the Essential Commodities (Amendment) Act (ECA)" on Radio 106.7FM, Calagary, Canada on April, 2021
41. Delivered a radio talk on "Essential Commodities Act and Indian Economy" on Radio In., Auckland, New Zealand on July 26, 2021.

B. Lecture Delivered in the workshop/training/ etc: 80

42. Delivered lecture on 'World Trade Organization and Dairy Industry' in the Dairy Farming Training Course at KVK, Bathinda on August 16, 2001.
43. Delivered lecture on 'Economics of Dairy farming' in the Dairy Farming Training Course at KVK, Bathinda on August 28, 2001.
44. Delivered lecture on 'Economics and Marketing of Cotton' in the cotton field day at village Bajak in Bathinda District on September 7, 2001.
45. Delivered lecture on 'Problems and Prospects of Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on September 9, 2001.
46. Delivered lecture on 'Dairy Farming: Costs and Returns' in the Dairy Farming Training Course at KVK, Bathinda on October 10, 2001.
47. Delivered lecture on 'Economics and Marketing of Rabi Crops' in the District Level Farmers Training Camp at Bathinda on October 11, 2001.
48. Delivered lecture on 'Globalization and Punjab Agriculture' in the District Level Farmers Training Camp at Mansa on October 16, 2001.
49. Delivered lecture on 'Globalization and Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on October 31, 2001.

50. Delivered lecture on 'Income and Expenditure of Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on November 7, 2001.
51. Delivered lecture on 'World Trade Organization and Poultry Farming' in the Poultry Farming Training Course at KVK, Bathinda on December 10, 2001.
52. Delivered lecture on 'Economics of Poultry Farming' in the Poultry Farming Training Course at KVK, Bathinda on December 14, 2001.
53. Delivered lecture on 'Economics of Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on January 22, 2002.
54. Delivered lecture on 'Problems and Suggestions of Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on January 25, 2002.
55. Delivered lecture on 'Economics of Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on Feb. 26, 2002.
56. Delivered lecture on 'Dairy Farming in the Wake of WTO' in the Dairy Farming Training Course at KVK, Bathinda on Feb. 28, 2002.
57. Delivered lecture on 'Marketing of Kharif Crops' in the District Level Farmers Training Camp at Bathinda on April 4, 2002.
58. Delivered lecture on 'Costs and Returns of Kharif Crops' in the District Level Farmers Training Camp at Mansa on April 5, 2002.
59. Delivered lecture on 'Income and Expenditure of Dairy Farming' in the Dairy Farming Training Course at KVK, Bathinda on May 9, 2002.
60. Delivered lecture on 'Future Problems and Prospects of Dairying in Punjab' in the Dairy Farming Training Course at KVK, Bathinda on May 10, 2002.
61. Delivered lecture on 'Future Problems and Prospects of Poultry Farming' in the Poultry Farming Training Course at KVK, Bathinda on June 5, 2002.
62. Delivered lecture on 'Income and Expenditure of Poultry Farming' in the Poultry Farming Training Course at KVK, Bathinda on June 6, 2002.
63. Delivered lecture on 'Globalization and Dairy Farming' in the Dairy Farming Training Courses at KVK, Bathinda on August 5, 2002.
64. Delivered lecture on 'Economics of Dairy Farming' in the Dairy Farming Training Courses at KVK, Bathinda on August 8, 2002.
65. Delivered lecture on 'Challenges and Opportunities in the Piggery Farming in Punjab' in the Piggery Farming Training Courses at KVK, Bathinda on September 11, 2002.
66. Delivered lecture on 'World Trade Organization and its Impact on Agriculture' in the Piggery Farming Training Courses at KVK, Bathinda on September 17, 2002.
67. Delivered lecture on 'Future of Dairying' in the Dairy Farming Training Course at KVK, Bathinda on October 9, 2002.
68. Delivered lecture on 'Dairy Farming: Costs and Returns' in the Dairy Farming Training Course at KVK, Bathinda on October 10, 2002.
69. Delivered lecture on 'Globalization and Poultry Farming' in the Poultry Farming Training Courses at KVK, Bathinda on October 23, 2002.

70. Delivered lecture on 'Economics of Poultry Farming' in the Poultry Farming Training Courses at KVK, Bathinda on October 28, 2002.
71. Delivered lecture on 'Future Problems and Prospects of Dairy Farming' in the Dairy Farming Training Courses at KVK, Bathinda on November 12, 2002.
72. Delivered lecture on 'Income and Expenditure of Dairy Farming' in the Dairy Farming Training Courses at KVK, Bathinda on November 22, 2002.
73. Delivered lecture on 'World Trade Organization and Dairying' in the Dairy Farming Training Courses at KVK, Bathinda on December 5, 2002.
74. Delivered lecture on 'Dairying the Wake of Globalization' in the Dairy Farming Training Courses at KVK, Bathinda on January 10, 2003.
75. Delivered lecture on 'Dairy Farming: Costs and Returns' in the Dairy Farming Training Courses at KVK, Bathinda on January 14, 2003.
76. Delivered lecture on 'Historical Development of WTO' in the Training Course on WTO, Domestic and Export Potential of Agricultural Commodities organized by Directorate of Extension Education, PAU Ludhiana on January 13, 2005.
77. Delivered lecture on 'Agricultural Crisis and Future of Small Farmers in Punjab' Organized by Radical People's Forum Punjab at Mansa on February 19, 2005.
78. Delivered lecture on 'World Trade Organization and Indian Agriculture' in the Winter School on Emerging Trends in Food Technologies and Food Business Development in India organized by Department of Food Science and Technology, PAU Ludhiana on December 8, 2005.
79. Delivered lecture on 'Agricultural Crisis- Suggestions for Punjab farmers' in Punjab Kisan Club Meet, PAU Ludhiana on August 3, 2006.
80. Delivered lecture on 'Credit and Rural Indebtedness in Punjab in the 4th District Managers' Business Meet of NABARD, PAU Ludhiana on November 13-14, 2006.
81. Delivered lecture on 'Status of Poultry Farming in Punjab' in the Self Employment Training Course for Unemployed Youth in Punjab organized by Directorate of Extension Education, PAU Ludhiana on January 28, 2008.
82. Delivered lecture on 'WTO and its Impact on Cotton in India' in training course for Impact of WTO in Agriculture and Use of Information Technology for AOs and ADOs organized by Directorate of Extension Education, PAU Ludhiana on May 6, 2008.
83. Delivered lecture on 'Status of Poultry Farming in Punjab' in the Self Employment Training Course for Unemployed Youth in Punjab organized by Directorate of Extension Education, PAU Ludhiana on October 6, 2008.
84. Delivered lecture on 'Agriculture Scenario of Punjab and India' in the Role of Public – Private Extension Services in Agriculture organized by Directorate of Extension Education, PAU Ludhiana October 16, 2008.
85. Delivered lecture on 'Problems and Prospects of Punjab Agriculture and way out for Farmers' in Punjab Kisan Club Meet, PAU Ludhiana on Nov.6, 2008.
86. Delivered lecture on 'Agrarian Crisis and Water management in Punjab' in the Policy Dialogue on Sustainable Agriculture and Appropriate Rural Technologies: Convergence and Policy Initiatives organized by PTU and KVM on 27 Feb., 2012.

87. Delivered lecture on 'Agrarian Crisis in Punjab – Is Diversification a Viable Solution' in UGC sponsored National Seminar on "Diversification of Punjab Agriculture: Some Issues" on March 1, 2012 organised by Department of Economics, S D College, Barnala.
88. Delivered lecture on 'Small Peasantry and the State' in the talk on "Problems of Small Farmers" organized by Kirti Kisan Union, Sangrur on March 4, 2012.
89. Delivered lecture on 'Common Property Resources in Punjab', PAMETI, PAU, Ludhiana on June 29, 2012.
90. Delivered lecture on 'Foreign Direct Investment and Punjab Agriculture' in PAU, Ludhiana Kisan Club, Wheat Auditorium on July 5, 2012.
91. Delivered lecture on "Marketing of Foodgrains in Punjab" in training course for officers of FCI on 'Safe Storage of Foodgrains & Quality Standards' organized by Director of Extension Education, PAU Ludhiana, July 20, 2013.
92. Delivered lecture on "Economic Crisis of Punjab Economy" organized by Punjab Jagran Manch at Layallpur Khalsa College, Jalandhar on September 1, 2013.
93. Delivered lecture on "Agricultural Marketing Infrastructure in Punjab" in training course for officers of FCI on 'Safe Storage of Foodgrains & Quality Standards' organized by Director of Extension Education, PAU Ludhiana, October 25, 2013.
94. Delivered lecture on "Status of Agricultural Marketing Infrastructure in Punjab" in training course for officers of FCI on 'Safe Storage of Foodgrains & Quality Standards' organized by Director of Extension Education, PAU Ludhiana, November 16, 2013.
95. Delivered lecture on, "Economic Conditions of Farmers in Punjab" in three days farmers' workshop organized by All India Farmers Organisation at Chandigarh on December 1, 2013.
96. Delivered lecture on "Role of Commission Agents in Marketing of Foodgrains in Punjab" in training course for officers of FCI on 'Safe Storage of Foodgrains & Quality Standards' organized by Director of Extension Education, PAU Ludhiana, December 5, 2013.
97. Delivered lecture on "Role of Commission Agents in Marketing of Foodgrains in Punjab" in training course for officers of FCI on 'Safe Storage of Foodgrains & Quality Standards' organized by Director of Extension Education, PAU Ludhiana, February 13, 2014.
98. Delivered lecture on "Role of Commission Agents in Marketing of Foodgrains in Punjab" in training course for officers of FCI on 'Safe Storage of Foodgrains & Quality Standards' organized by Director of Extension Education, PAU Ludhiana, June 18, 2014.
99. Delivered lecture on 'Agricultural Economy of Punjab' to members of PAU Kisan club, held at Wheat auditorium on June 5, 2014
100. Delivered lecture on 'Economics of various enterprises' to Trainees of 3 month young farmers training class at KKG, PAU on October 22, 2014.
101. Delivered lecture on 'Economics of various enterprises' to Trainees of 3 month young farmers training class at KKG, PAU on January 18, 2014.

102. Delivered lecture on ‘WTO and Future of Agriculture’ organized by the Bhartiya Kisan Union (Lakhowal), Kisan Bhawan, Chandigarh on Feb2, 2016.
103. Delivered lecture on ‘Agricultural crises- Causes and solutions’ at National College, Bhikki, Mansa on Sept 16, 2016.
104. Delivered lecture on ‘Agrarian crises in Punjab: Policy Initiatives’ at Lajpat Rai, DAV College, Jagraon on Oct 28, 2016.
105. Delivered lecture on “Demonetization: Status and Impact” organized by Progressive Youth Association, Baba Bhan Singh Sunet, Ludhiana on Oct 20, 2016.
106. Delivered lecture on “Demonetization and Black Economy’ at Teacher’s House at Bathinda on Dec 18, 2016.
107. Delivered lecture on “Imperialism and Working Class” at Baba Bhan Singh Sunet, Ludhiana on April 2, 2017.
108. Delivered Lecture on ‘Agricultural Credit and Rural Suicides’ at Taraksheel Bhawan, Patiala on August 17, 2019.
109. Delivered Lecture on ‘Agrarian Economy and Rural Education’ in the Seminar on National Education Policy at Punjabi Bhawan, Ludhiana on August 24, 2019.
110. Delivered lecture on ‘Farm Sector and Rural Economy’ organized by District Literature Centre Gurdaspur (Regd), at Gurdaspur on Dec 1, 2019.
111. Delivered lectures on “Agricultural Transformation and Punjabi Society” organized by North American Rationalist Society, Brampton, Ontario, Canada on June 20, 2019.
112. Delivered Lectures on Production and marketing problems of Punjab Agriculture, at Farmer Training Camp, Kartarpur, February 23, 2019.
113. Delivered Lecturer on ‘Economic Settings and Women Labour’ in the Seminar Organized by Malwa Cultural Manch, Punjab at Punjabi Bhawan, Ludhiana on Feb 9, 2020.
114. Delivered a lecture on Agricultural Ordinances in a Webinar on “Agricultural Ordinances” organized by Malwa College on 29th August, 2020.
115. Delivered a lecture on “Naven kheti act ate Punjab di arthikta” in a webinar arranged by Punjab kalam navees patarkar manch on 4th October, 2020
116. Delivered a radio talk on “Naven kheti kanoonan da Punjab di arthikta te prabhav” on Radio Apna Live, Winnipeg, Canada on October 5, 2020
117. Delivered a lecture on “New dimensions of farmer’s struggle” to a channel “Pravaas” on Youtube on October 26, 2020
118. Delivered a lecture on ‘New farm laws and their impact on labourers’ at Khalsa college, Garhdiwala, Hoshiarpur on 30 January, 2021.
119. Delivered a lecture on “Krishi kanoon aur uske prabhav” to a channel “Workers Unity” on Facebook on March 30, 2021
120. Delivered a lecture on “Impact of new farm laws on labourers” to a channel “Workers Unity” on Facebook on April 5, 2021.
121. Delivered a radio talk on “Implementation of the Essential Commodities (Amendment) Act” (ECA) on Radio 106.7FM, Calgary, Canada on April1, 2021.

Awards/Distinctions Received: 12

1. **Best Paper Presentation Award for the paper** “Water management in Indian Punjab: socio-economic and policy issues” in 8th International Soil Science Congress, November 2000, Islamabad, Pakistan.
2. **German Fellowship Award**, 2004 *International Centre for Development Oriented Research in Agriculture*, Netherlands.
3. **Dr. Anamitra Saha Award**, 2011 for the paper “Agrarian crisis and depeasantisation in Punjab: Status of small/marginal farmers who left agriculture” published in *Indian Journal of Agricultural Economics*, Vol.64 (4) pp 585-603 awarded by Indian Society of Agricultural Economics.
4. **Best Paper Presentation Award** in *International Symposium on “One Health: Way Forward to Challenges in Food Safety and Zoonoses in 21st Century”* on December 13-14, 2012 at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana.
5. **Agro- Scientist of the year 2013** Award conferred jointly by Confederation of Indian Industry (CII) and Mehram Group on 4th March, Chandigarh.
6. **Dr M S Randhawa Best Book Award** by PAU, Ludhiana on Book entitled “Taking More Than a Commission- A Critique of the Commission Agent system in Punjab Agriculture”, Aakar Books, Delhi, 2013.
7. **Parman Patra (State Award)** by Govt of Punjab in the field of Science and Technology & Learned Profession on 15th August, 2013.
8. **Dr M S Randhawa Award** for outstanding contribution in the field of farm economy by Punjab Cultural Society (Regd.) on 30 April 2016.
9. **Best Paper Award** for paper entitled “Migration and rural society of Punjab” in 5th World Punjabi Conference on 29 June 2019 at Brampton, Ontario, Canada.
10. **Dr Nirmal Singh Azad Award-2019** awarded by District Literature Centre Gurdaspur (Regd) at Gurdaspur on Dec 1, 2019.
11. **Award of Honour** for valuable contribution in the field of ‘Agriculture, Farming and Rural Economy’ by Indo Punjab Sahit Academy of Australia at Brisbane (Australia) on March 8, 2020.
12. **6th Gadri Baba Jawala Singh Thathian Yadgari Puruskar-2022** by Indo Punjab Sahit Academy of Australia at Jalandhar, Punjab on April 10, 2022.

Offices Held in the Professional Societies / Committees/ Subject Expert : 16

1. **Executive Member**, Indian Society of Agricultural Economics, Mumbai from 2006 - 2008.
2. **Joint Secretary**, Indian Society for Agricultural Development & Policy, Ludhiana from 2008-2010.
3. **Editor**, Journal of Agricultural Development & Policy, An organ of the Indian Society for Agricultural Development & Policy from 2006 to 2008.
4. **Editor-in-Chief**, Journal of Agricultural Development & Policy, An organ of the Indian Society for Agricultural Development & Policy from 2012 to 2014.

5. **Organising Secretary**, Platinum Jubilee Conference of Indian Society of Agricultural Economics at Punjab Agricultural University, Ludhiana, 2015.
6. **Vice- President**, Indian Society of Agricultural Economics, Mumbai from 2015 to 2017.
7. **President**, Indian Society for Agricultural Development & Policy, Ludhiana from 2014 to 2018.
8. **Subject Expert**, in the Committee on Strengthening of Cooperatives in Punjab constituted by Government of Punjab during 2007-2008.
9. **Subject Expert**, Presented Research Findings on Farm Credit in ‘RBI Expert Committee on Farmers’ Distress in India’, Constituted by Reserve Bank of India in 2006. The issue of debt waiving of farmers was discussed at length by the committee.
10. **Subject Expert**, Committee to Formulate Policy Regarding Farmers’ and Agricultural Labourers’ Suicides due to Indebtedness, 2014-15.
11. **Member**, Sub-Group on “Farmers’ Indebtedness and Suicides” constituted by Punjab Governance Reforms Commission, 2015-16.
12. **Member, Exert Team**, formulated by Government of Punjab for visiting Telangana State for studying Debt Waiver Scheme, the Team comprised of A R Reddy, Dr B S Sidhu and S K Batish visited Telangana state for this purpose, 2017.
13. **Member**, State Evaluation Committee constituted by Governor of Punjab, Government of Punjab, since 2016.
14. **Member**, Board of Studies, Punjabi University, Patiala Since 2015
15. **Member**, Board of Studies, Guru Nanak Dev University, Amritsar, 2015-18
16. **Coordinator**, Farmers’ and agricultural labourers’ suicides survey by PAU Ludhiana, Punjabi University Patiala and GNDU Amritsar, commissioned by Government of Punjab, 2012-2018.

Dated:

Signature