


## Bio-Data of Dr. Rajiv Baliram Kale

<b>Name</b>	: Dr. Rajiv Baliram Kale	
<b>Designation</b>	: Scientist (Agricultural Extension)	
<b>Contact</b>	: ICAR-Directorate of Onion and Garlic Research, Rajgurunagar, Pune, Maharashtra 410 505 India Phone: 02135-222026 (O) 7057898935 (M) email : <a href="mailto:rkrajivndri@gmail.com">rkrajivndri@gmail.com</a> <a href="mailto:rajiv.kale@icar.gov.in">rajiv.kale@icar.gov.in</a>	
<b>Degree</b>	: PhD (Agricultural Extension)	
<b>Birth Date</b>	: 6 <sup>th</sup> December, 1985	
<b>Research Interest</b>	: <ul style="list-style-type: none"><li>✚ Information and Communication Technology, Adoption and diffusion, Climate change, Forecasting and Market studies</li></ul>	
<b>Description of Research</b>	: <ul style="list-style-type: none"><li>✚ Information and Communication Technology Applications in Agriculture</li><li>✚ Demonstration and Adoption of Agricultural Technologies</li><li>✚ Climate change and vulnerability assessment of farm household</li><li>✚ Foresight Studies and Market Research</li></ul>	
<b>Projects</b>	: <ul style="list-style-type: none"><li>✚ Promotion of Sustainable Livelihoods through Skill Development of Farmers</li><li>✚ Demonstration of Climate Resilient Integrated Farming System Practices through Krishi Vigyan Kendras.</li><li>✚ IARI – Post Office Linkage Extension Model Collaborative project</li><li>✚ Attracting and Retaining Youth in Agriculture (ARYA)</li><li>✚ Effectiveness of Farmer-to-Farmer (F2F) Extension Model to Enhance the Technology Uptake in Rajasthan State, Extramural Project</li><li>✚ Risk and Vulnerability Analysis of Rural Farm Households in Drought Prone and Coastal Regions of India, ICSSR Funded Project</li><li>✚ National Food Security Mission (NFSM) : Cluster Frontline Demonstrations (CFLDs) on Pulses Production Technology Cluster Frontline Demonstrations (CFLDs) on Oilseeds</li><li>✚ Protection of Plant Varieties and Farmers Right Act.</li></ul>	
<b>Service particulars</b>	: <ul style="list-style-type: none"><li>✚ Scientist (Agricultural Extension) at ICAR-Agricultural Technology Application Research Institute, Jodhpur, Rajasthan (2011-2017)</li><li>✚ Scientist (Agricultural Extension) at ICAR- Directorate of Onion and Garlic Research, Pune, Maharashtra, (11 July 2017 to....)</li></ul>	
<b>Awards</b>	: <ul style="list-style-type: none"><li>✚ Received <b>Gold Medal award</b> for outstanding PhD thesis research work of the academic session 2016-17 in the field of Social Sciences</li></ul>	

and Management from National Dairy Research Institute (Deemed University), Karnal

- ✚ Received **Gold Medal award** for securing first position during academic session 2009-10 in the field of Social Sciences and Management from National Dairy Research Institute (Deemed University), Karnal
- ✚ Awarded “NDRI-Junior Research Fellowship (**JRF**) “at National Dairy Research Institute, Karnal, India, during two years of Master degree in MSc in Dairy Extension
- ✚ Awarded “ICAR-Senior Research Fellowship (**SRF**) “with **all India first rank** during PhD degree in Agricultural Extension at National Dairy Research Institute, Karnal, India
- ✚ Awarded “**INSPIRE Fellowship** of Ministry of Science and Technology GOI” during PhD degree in Agricultural Extension at National Dairy Research Institute, Karnal, India
- ✚ Awarded **UGC- JRF** at National Dairy Research Institute, Karnal, India, during PhD degree in Agricultural Extension
- ✚ Awarded **NDRI- institutional fellowship** during PhD degree in Agricultural Extension at National Dairy Research Institute, Karnal
- ✚ Qualified National Eligibility Test (**NET**) of **UGC** in Adult education in 2010
- ✚ Qualified National Eligibility Test (**NET**) of **ICAR** in Agricultural Extension in 2010
- ✚ Received second **best poster presentation** award for the paper entitled “*Mahilaonka Mulyawardhit Krushi Aadharit dairying dwara sashaktikaran*” as co-author with Parvinder Sharma and K. Ponnusamy in Rajbhasha Mas Samaroh, 2014. NDRI, Karnal India.
- ✚ **Associate Editor** for Pyrex Journal of Agricultural Extension and Rural Development.
- ✚ Awarded **Travel Grant of \$ 1900** for attending by International Institute of Forecasters (IIF) Medford, USA to the 37<sup>th</sup> International Symposium on Forecasting held in Cairns Australia, June 25-28, 2017.
- ✚ First Prize in *Hindi Translation* competition during Hindi Pakhawara celebration 2016 at ICAR-ATARI, Jodhpur.
- ✚ First Prize in *Debate Competition* during Hindi Pakhawara celebration 2016 at ICAR-ATARI, Jodhpur.
- ✚ Third Prize in *Essay Writing Competition* during Hindi Pakhawara celebration 2016 at ICAR-ATARI, Jodhpur.

#### **Methodology / Technology Developed**

- ✚ Mobile app (eF2F) for Farmer to Farmer Extension model
- ✚ Documentary Video film of ICAR-ATARI, Jodhpur,
- ✚ Documentary Video film of Farmer to Farmer Extension model
- ✚ Documentary Video film of ARYA project.
- ✚ Dairy Progressiveness Index (DPI) was developed to measure the dairy progressiveness in the Indian States.
- ✚ Plausible future dairy scenarios for dairy development in 2030 in high, Moderate and Least dairy progressive region were developed with Delphi Technique.

**Training /  
workshop  
organized**

- ✚ Zonal Workshop cum Training on Pulses under NFSM during 24-25th October, 2016.
- ✚ Orientation Training Programme for Master Trainers of 24 KVKs from Rajasthan, Gujarat, Uttar Pradesh and Haryana under Skill Development Programme during 7 - 9th November, 2016 at Conference Hall, CAZRI, Jodhpur.
- ✚ Sensitization workshop under protection of plant varieties and farmers' right (PPV&FR) for the nodal officers of KVKs at ICAR-ATARI-Jodhpur on 9<sup>th</sup> March 2017.

**Publications :**

**Research Papers:**

**International**

1. Kale, R. B., Meena M. S. and Rohilla, P. P. (2016) Determining Factors and Levels of e-Skills among Agriculture Experts of Krishi Vigyan Kendras in India. *Journal of Agricultural Science and Technology*. 18, 1749-1760.
2. Kale, R. B., Rohilla, P. P., Meena, M. S., & Wadkar, S. K. (2015). Information and Communication Technologies for Agricultural Knowledge Management in India. *Journal of Global Communication*, 8(1), 16-22.
3. Kale, R. B., Babu, G. P., Mohammad, A., Meena, M. S., Vairagar, V. G., & Kad, S. V. (2015). Perceived Effect of Information and Communication Technology Use in the Performance of Dairy Scientists. *International Journal of Applied Research on Information Technology and Computing*, 6(1), 38-43.
4. Kale, R. B., Wadkar, S. K., Jadoun, Y. S., & Ravi, K. N. (2017). Constraints Encountered in Effective Utilization of ICT among the Dairy Scientists. *International Journal of Applied Research on Information Technology and Computing*, 8(1), 51-55.
5. Jadoun, Y. S., Jha, S. K., Bhadauria, P., and Kale, R. B., & Singh, R. (2017). Analysis of Constraints Faced by Beneficiaries of Integrated Murrah Development Scheme (IMDS) in Haryana. *Buffalo bulletin*, 36(1) 207-2014.
6. Ravi, K. N., Ponnusamy, K., & Kale, R. B. (2016). A Pragmatic Approach to Addressing Needs of Dairy and Crop Production System in the Peri-Urban Area of Bengaluru, India. *Asian Journal of Dairy and Food Research*, 35(4), 288-292.
7. Wadkar, S. K., Singh, K., Mohammad, A., Malhotra, R., & Kale, R. B. (2016). Identifying the factors governing attitude towards the e-Agriservice among dairy farmers in Maharashtra, India. *Journal of Agriculture and Rural Development in the Tropics and Subtropics (JARTS)*, 117(1), 1-10.
8. Kad, S. V., Brar, D. S., Kale, R. B., Vairagar, V., (2013) Innovativeness and production practices of Lucerne among the dairy farmers of Maharashtra, India *Range Mgmt. & Agroforestry* 34 (2) : 209-213.

## National

1. Kale R. B., Meena M S, Singh Y. V. and Meena H. M. (2016). Scientists' Perception towards Role of Information and Communication Technologies in Agricultural Extension. *National Academy Science Letters*, 39(2):91-93
2. Kale, R. B., Ponnusamy, K., Chakravarty, A. K., Sendhil, R., and Asif Mohammad (2016). Assessing Resource and Infrastructure Disparities to Strengthen Indian Dairy Sector. *Indian Journal of Animal Sciences*, 86 (6): 720–725.
3. Kale R. B., Meena M.S. and Singh S.K. (2017) Constraints and Suggestions Perceived by KVK Scientists in Utilization of ICT for Agricultural Extension, *Journal of Community Mobilization and Sustainable Development*.12(1),21-24.
4. Kale RB, Ponnusamy K, Mohammad A, Jha SK,Chandel, BS, Chakravarty AK, (2017) Differential dairy development status in India: A perception analysis. *Indian Journal of Dairy Sciences*, 70(3) 371-377.
5. Kale RB, Ponnusamy K, Sendhil R, Sanjit Maity Chakravarty AK, Chandel, BS, Jha SK, Mohanty TK, Lal SP. Determinants of Inequality in Dairy Development of India, *National Academy Science Letters*. Accepted on 28<sup>th</sup> Feb. 2017
6. Kale RB, Ponnusamy K, Chakravarty AK, Mohammad A and Sendhil R., Productive and Reproductive Performance of Cattle and Buffaloes Reared under Farmers' Management in Differential Dairy Progressive States in India, *Indian Journal of Animal Research* Accepted on 25<sup>th</sup> Feb. 2017
7. Maiti, S., Jha, S.K., Garai, S., Nag, A., Bera, A.K., Bhattacharya, D., Kale, R.B. and Deb, S.M., (2016). Climate Change Awareness among the Livestock Rearers of East Coast of India. *Indian Journal of Animal Sciences*, 86(7) 799-809.
8. S.P, Lal, Asif Mohammad, K. Ponnusamy and R. B. Kale (2016) Expectation of Participants in National Dairy Fair of India: A complete itemization by multivariate analysis, *Indian Journal of Animal Science*. 86(8): 940-946.
9. Lal, S. P., Kadian, K. S., & Kale, R. B. (2016). Friedman Based Analysis of Perceived Constraints among Dairy Farmers Affected by National Calamity in India. *Indian Journal of Dairy Science*. 69(6): 725-727.
10. Lal, S. P., Mohammad, A., Ponnusamy, K., & Kale, R. B. (2016). A methodological pathway to quantify perception of the participants in animal fairs with relevance to national dairy mela at NDRI Karnal, India. *Journal of Animal Research*, 6(3), 437-444.
11. Ponnusamy, K., Kale, R. B., Ravi, K. N., Devi, M. A., & Sharma, P. (2017). Cross-regional analysis on usage of Indigenous Technical Knowledge in dairy farming. *Indian Journal of Animal Research*, 51 (3): 549-556
12. Sharma, P., Ponnusamy, K., & Kale, R. B. (2015). Study on behavioural changes among women SHGs and their impact on adoption of scientific practices in dairying. *Indian Journal of Animal Research*, 49(6), 855-859.
13. Vairagar, V. G., Sankhala, G., Kale, R. B., & Kad, S. V. (2015). Preferences of stakeholders towards health foods. *International Journal of Tropical Agriculture*, 33(2 (Part IV)), 1495-1499.

14. Prasad Babu G., K.S. Kadian, Kale R.B. and Kamala Kant. (2015) Associative relationship between ICT indicators with socio-personal and economic characteristics of the dairy farmer beneficiaries under ICT enabled I-Kisan project in Andhra Pradesh. *Indian Journal of Agricultural Research*. 49 (1) : 92-95
15. Kad, S. V., Brar, D. S., Kale, R. B, Vairagar, V., (2014) Innovativeness and production practices of fodder among the dairy farmers of Maharashtra, *Indian Journal of Dairy Science* 67(4), 359-364.
16. Jadon, Y. S., Jha, S. K., Bhaduria, P., Kale R. B. (2014) Marketing pattern of Murrah buffaloes among dairy farmers affected by Integrated Murrah Development Scheme of Haryana. *Indian Journal of Dairy Science*. 67(4), 359-364.
17. More B.D., Kale R.B. and Singh K. (2015), Role Performance of the NGO personnel in sustainable livelihood generation for tribal dairy farmers. *Indian Journal of Agricultural Research*. 49 (1): 96-98.

### **Books:**

1. Mohammad, A, Ponnusamy K.and Kale R. B. (2015) *Question Bank in Extension Education*, New India Publishing Agency, New Delhi. ISBN No. 9788393D14493

### **Book Chapters:**

1. Meena, M.S., Singh, S.K ., Gupta S. and Kale R.B. (2017) Information and Communication Technology for Dissemination of Agricultural Knowledge through Krishi Vigyan Kendras in India in Singh Baldeo, Patel M M. Gupta S., Mishra Y. D. Padaria R.N (Ed) *Extension Innovations for Agricultural Development*,. 63- 76.
2. Ravi K N, Ponnusamy K Kale R B and Singh A K (2017). Urbanisation and food security in India : Concerns and opportunities., in Gedai K (Ed) *Extension Issues and Approaches*., 177-186. Biotech Books.
3. सिंह, एस. के; काले,आर.बी; एवम मीना, एम एस (2017) कृषि विज्ञान केंद्रों द्वारा संचालित कार्यक्रमों का राजस्थान और गुजरात में दलहन उत्पादन और फसल सुरक्षा में योगदान 'दलहनी फसलों में फसल सुरक्षा'. (Accepted)

### **Technical/Popular Article**

1. काले आर बी व गाडगे एस एस (2017) अधिक उत्पादनक्षम कांदा जाती, एग्रोवन, 11
2. Kale, R.B., Meena, M.S., Meena H. M. and Singh Y.V. (2015) m-Agriculture: Importance & Challenges in Indian Context, *Indian Farming*, 65(9):44.
3. R.B. Kale and Ponnusamy K (2016) Prospect of organic dairy farming in india: a swoc analysis. *Indian Farming*, 66(9):51-52.
4. काले राजीव बलिराम (2014) पंचगव्य : एक महत्वपूर्ण जैविक आदान, डेरी समाचार, एन डी आर आय करनाल
5. Singh, Y.V; Rohilla, P.P; Meena, M.S. and Kale, Rajiv "A March of Progress for Sustainable Small Holder Farmers: Gujarat and Rajasthan" published in souvenir of 8th National

Conference on Krishi Vigyan Kendra-2013 on Sustainable Intensification of Smallholder Farms held from October 23-25, 2013 at UAS, Bangalore.

6. Meena H. M., Singh R. K., Kale Rajiv,(2013) Drought- Its Impact and Mitigation in Agriculture, *Agrobios Newsletter*, 12(7):80-81.
7. Meena, M.S.; Gupta, S.; Rohilla, P P & Kale, R B (2015). Harnessing ICTs for Dissemination of Agricultural Knowledge through KVK: Way Forward pp: 104-116. Lead Paper published in In: The Souvenir and Abstracts During the, National Seminar Organised on Extension Innovations and Methodologies for Market-Led Agricultural Growth and Development by Indian Society of Extension Education, New Delhi and Department of Extension Education, Rajmata Vijayaraje Sciendia Krishi Vidhwa Vidyalaya, Gwalior (MP) at Gwalior from February 26-28, 2015.
8. Kale R. B. and Mohammad A. (2014) Strategies for Promoting Entrepreneurship among Small Livestock Holders: New Vista of Opportunity published in compendium of All India Animal Husbandry Officers' Workshop on the theme- "Opportunities and Challenges in Dairying for Small Farmers" during September 24-25, 2014, at National Dairy Research Institute, Karnal, India.
9. Mohammad A and Kale R. B. (2014) Small Holder Dairy Farming in India: Issues and Strategies, published in compendium of All India Animal Husbandry Officers' Workshop on the theme- "Opportunities and Challenges in Dairying for Small Farmers" during September 24-25, 2014, at National Dairy Research Institute, Karnal, India.
10. Meena M S, Kumar M, Meena H M, Kalash P and Kale R., (2015). Integrated farming system for livelihood improvement of small and marginal farmers, *Agrobios Newsletter*, 8 (1):48-49
11. Asif Mohammad, Rajiv Baliram Kale and Sanjit Maiti (2015) *Drought and Flood Proofing Practices of Farmers*. Published in Compendium of training lectures on Capacity Building of Extension Functionaries on Climate Resilient Livestock Farming. in the Model Training Course organised during 26.11.2015 to 03.12.2015, ICAR-NDRI, Karnal. pp 95-99.
12. Mohammad A and Kale R B (2015) Organic Certification System in India, in compendium ICAR- short course on Good Dairy Farming Practices: Nobel Initiatives and Extension Approaches, Ed. Ponnusamy, K., Meena H. R., Chakravarty R., Mohammad A., Kale R. B. and Lal S. P. Division of dairy extension NDRI, Karnal. PP.76-83
13. Sanjit Maiti, S. K. Jha, Sanchita Garai, Asif Mohammad, R. Chakravarty, Rajiv Baliram Kale (2015) *An Analysis of Climate Induced Vulnerability among the Livestock-Rearers*. In Compendium of training lectures Capacity Building of Extension Functionaries on Climate Resilient Livestock Farming. in the Model Training Course organised during 26.11.2015 to 03.12.2015, ICAR-NDRI, Karnal. pp 100-106.
14. Kale R. B., Meena H. M., Singh Y. V. (2013). Prospects of Carbon Credit in India. *Readers' Shelf*, 9(9):19-21.
15. काले राजीव, वाडकर सागर एवं सिंह खजान (2014) मोबाइल प्रौद्योगिकी : कृषि प्रसार के लिए महत्वपूर्ण पहल, दुग्ध गंगा, एन.डी.आर.आई. 4:110-113.

## Technical Bulletin

1. काले, आर.बी; मीना, ऍम एस; रोहिल्ला, पी पी; सिंह, एस. के (2017). सफलता की कहानी किसानों की जुबानी, भा.कृ.अ.नु.प-अटारी जोधपुर प्रकाशन.
2. काले, आर.बी; मीना, ऍम एस; रोहिल्ला, पी पी; सिंह, एस. के (2017). कृषक किस्म पंजीकरण प्रक्रिया: पौध किस्म और कृषक अधिकार संरक्षण अधिनियम 2001, प्रसार फोल्डर, भा.कृ.अ.नु.प-अटारी जोधपुर प्रकाशन.
3. काले, आर.बी; मीना, ऍम एस; रोहिल्ला, पी पी; सिंह, एस. के (2017). कृषक के अधिकार : पौध किस्म और कृषक अधिकार संरक्षण अधिनियम 2001, प्रसार फोल्डर., भा.कृ.अ.नु.प-अटारी जोधपुर प्रकाशन.
4. Meena, M.S; Singh, S.K; Rohilla, PP; Kale, R.B; Srinivas, A (2016). ICAR-ATARI, Jodhpur: Initiatives and Actions, Published by ICAR-ATARI, Jodhpur: 1-17.
5. Meena, M.S; Kale, R.B; and Singh, S.K (2017). Effectiveness of Farmer to Farmer (F2F) Extension Model to enhance the technology uptake in Rajasthan, Published by ICAR-ATARI, Jodhpur, Technical Bulletin, 1/2017:1-12.
6. Meena, M.S; Kale, R.B; and Singh, S.K (2017). Highlights of ARYA Project, Prepared the technical bulletin to be published from ICAR-ATARI, Jodhpur.
7. मीना, ऍम एस; काले, आर.बी; सिंह, एस.के (2017). राजस्थान में कृषि तकनीकी को बढ़ावा देने के लिए कृषक से कृषक प्रसार प्रणाली की प्रभावशीलता, तकनीकी बुलेटिन-2/2017:1-12
8. मीना, ऍम एस; सिंह, एस. के एवम काले, आर.बी; (2017). कृषि ज्ञान गंगा—अर्द्ध वार्षिक पत्रिका, भाकृअनुप— कृषि तकनीकी अनुप्रयोग संस्थान से प्रकाशित, पेज 162.
9. Singh, Y. V., Kale, R. B., Rohilla, P. P., Meena, M. S., Chahal, V. P. (2014) “Enterprising farm women in Rajasthan and Gujarat” Technical Bulletin, Zonal Project Directorate, Zone-VI, Jodhpur. 2014. pp1-36.
10. Singh, Y. V., Rohilla, P. P., R. N. Kumawat, Kale R. B. (2013) “Rajasthan ke Kisanon ke hetu krishi yojanayen” (Hindi) compiled and edited by Zonal Project Directorate, Zone-VI, Jodhpur. 2013. pp1-70
11. Singh, Y. V., Rohilla, P. P., Kale, R. B., Sharma, P. K., Thakur, R. S. (2013) “Gujaratana Khedut Mate krishi Yojanaye” (Gujarati), Zonal Project Directorate, Zone-VI, Jodhpur. 2013. pp1-138.
12. Singh, Y. V., Rohilla, P. P., R. N. Kumawat, Kale R. B. (2012). “Rajasthan avam Gujarat Ke Krishi Ratna” (Hindi), Published by Zonal Project Directorate, Zone-VI, Oct., 2012, Jodhpur. pp1-70
13. Singh, Y. V., Rohilla, P. P., R. N. Kumawat, Kale R. B., Sharma, P. K. Thakur, R. S. (2012) “Gujarat yane Rajasthan na Khedut Ratno” (Gujarati) compiled and edited by Zonal Project Directorate, Zone-VI, Jodhpur. July, 2012. pp1-70.

14. Ponnusamy, K., Meena H. R., Chakravarty R., Mohammad A., Kale R. B. and Lal S. P. (2015) Good Dairy Farming Practices: Nobel Initiatives and Extension Approaches, Division of dairy extension NDRI, Karnal. PP. 1-160.

## Reports

1. Annual Progress Report – 2011-12 Zonal Project Directorate, Zone-VI, Jodhpur, Rajasthan
2. Annual Progress Report – 2012-13 Zonal Project Directorate, Zone-VI, Jodhpur Rajasthan
3. Reports of FLD and OFTs of Technology Demonstration For Harnessing Pulse Production (TDHPP) 2011-12 & 12-13
4. NICRA- Annual Progress Report, 2012-13 Zonal Project Directorate, Zone VI, Jodhpur, Rajasthan.
5. Annual Progress Report – 2016-17 ICAR-Agricultural Technology Application Research Institute, Jodhpur, Rajasthan.
6. Report of Cluster Front Line Demonstrations in Rajasthan and Gujarat under National Food security Mission (2017) Published by ICAR-Agricultural Technology Application Research Institute, Jodhpur, Rajasthan.

## Newsletter

1. Kale R. B., Meena M. S. Rohilla P.P. Srinivas A & S K Singh (2016) ATARI NEWS Jodhpur, January-June 2016. Half yearly newsletter, Published by ICAR-ATARI, Jodhpur.
2. Kale R. B., Meena M. S. Rohilla P.P. Srinivas A & S K Singh (2016) ATARI NEWS Jodhpur, July-December, 2016. Half yearly newsletter, Published by ICAR-ATARI, Jodhpur.
3. Kale R. B., Meena M. S. Rohilla P.P. & S K Singh (2017) ATARI NEWS Jodhpur, January-June, 2017. Half yearly newsletter, Published by ICAR-ATARI, Jodhpur.

## Abstracts:

1. R. B. Kale, Y. V. Singh, R. N. Kumawat, P. P. Rohilla, Satapathy P. K. "*Application of Mobile Phone in Agro- Advisory Services*" Delivered oral presentation and Abstract published in International Conference on Extension Education in the Perspective of Advances in Natural Resource Management. Organized by Rajasthan Society of Extension Education, Udaipur, held at SKRAU, Bikaner from 19-21, December, 2012. Page 52.
2. Kale R. B., Ponnusamy K. and Lal, S.P. (2015) *Differential Dairy Development in India: Concerns and Extension Strategies*, Abstract published and presented in National Conference on 'Push to the livestock farming through knowledge empowerment of the farmers' held on 18th to 20th November, 2015 at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana-141 004, Punjab (India).
3. R. B. Kale, K. Ponnusamy, R. Sendhil, M.S. Meena and S K Singh 2017 Forecasting dairy scenario on Dairy developing states of India: A Delphi survey approach Abstract accepted for oral presentation in 37th International Symposium on Forecasting , Cairns Convention Centre, Cairns, Australia 25-28 June 2017.
4. Lal S.P., Ponnusamy K., Kale R. B and Shruti (2015) *Good livestock practices during and post natural calamities*. Abstract published and presented in National Conference on 'Push to the livestock farming through knowledge empowerment of the farmers' held on 18th to 20th



November, 2015 at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana-141 004, Punjab (India).

5. Meena, M. S., Kale, R. B., Singh, S. K., & Gupta, S. (2016). Farmer-to-Farmer Extension Model: Issues of Sustainability & Scalability in Indian Perspective. Lead paper published in ISEE National Seminar on Information and Communication Management concerning Climate Smart Agriculture for Sustainable Development and Poverty Alleviation held at R.V.S.K.V.V. Gwalior, November 28-30, 2016.
6. R. N. Kumawat, R. B. Kale, Satapathy P. K., Singh Y. V., and Kumawat B. L. "Yield of mung bean under frontline demonstrations conducted by the KVKs of Rajasthan and Gujarat" Abstract published in International Conference on Extension Education in the Perspective of Advances in Natural Resource Management. Organized by Rajasthan Society of Extension Education, Udaipur, held at SKRAU, Bikaner from 19-21, December, 2012. Page 136.
7. Ravi K N, Ponnusamy K, Kale R B and Darshan N P (2015) Trade –offs in Urbanization growth and Food security in India: Concerns and Opportunities. pp-528 Abstract presented and published in international conference on Natural Resource Management for Food Security and Rural Livelihoods organized by Soil Conservation Society of India at NASC complex, New Delhi, during 10th–13th February 2015