

DEPARTMENT OF AGRICULTURAL EXTENSION AND COMMUNICATION
B. A. COLLEGE OF AGRICULTURE
ANAND AGRICULTURAL UNIVERSITY
ANAND – 388 110 (GUJARAT, INDIA)

Number of Research Papers, Books, Popular articles published by faculties of the department (Since 2004)

Research paper published in international journal	25
Research paper published in national journal	120
Popular articles published	25
Books/ book chapters	17
Abstract	108
Total	295

Referred publications by the department faculties (since 2016).

1. Ban, SH, Patel, JB and Popat, RC. 2020. Planting material and soil health related risk management practices adopted by the ginger growers. *Gujarat Journal Extension Education*. **31(2)**: 63-67.
2. Ban, SH, Patel, JB and Gaikwad, AB. 2020. Management practices adopted by ginger growers to cope with general adverse situation and marketing risks. *Gujarat Journal Extension Education*. **31(1)**: 122-125.
3. Boppana, J, Patel, JB and Shafi, M. 2020. Relationship between profile of the farmers and their attitude towards Krishi Mahotsav. *Gujarat Journal Extension Education*. **31(2)**: 147-151.
4. Boppana, J and Patel, JB. 2020. Attitude of farmers towards Krishi Mahotsav. *Gujarat Journal Extension Education*. **31(1)**:126-129.
5. Chauhan, CD and Patel, JB. 2020. Relationship between profile and attitude of the member farmers of gram panchayat towards Pradhan Mantri Fasal Bima Yojana. *Gujarat Journal Extension Education*. **31(2)**: 113-117.
6. Chauhan, CD and Patel, JB. 2020. A scale to measure the attitude of member farmers of gram panchayat towards Pradhan Mantri Fasal Bima Yojana. *Gujarat Journal Extension Education*. **31(1)**:1-5.
7. Chaudhari, R., Patel, JB and Paradva, VB. 2020. Farmers attitude toward use of Smartphone for agricultural profession. *Gujarat Journal Extension Education*. **31(1)**:114-117
8. Christian, BM, Chauhan, NB and Chandrawadiya, K. 2020. Impact of characteristics of woman research scholars on their knowledge of computer. *Gujarat Journal Extension Education*. **31(1)**:152-155.

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9. Dhananjaya, JP, Patel, DD and Patel, JB. 2020. Constraints faced by farmers in availing technical guidance from KVK scientists. *Gujarat Journal Extension Education*. **31**(1):175-177.
10. Dhananjaya, JP, Patel, DD and Patel, JB. 2020. Relationship between profile of the farmers and their perception towards technical capability of KVK scientists. *Gujarat Journal Extension Education*. **31**(2): 192-195.
11. Khatri, KD and Chauhan, NB. 2020. Attitude of farmers' sons towards permanently working in rural area. *Gujarat Journal Extension Education*. **31**(2): 45-46.
12. Khatri, KD and Chauhan, NB. 2020. Knowledge of the farmers' sons about agriculture and related aspects. *Gujarat Journal Extension Education*. **31**(1): 41-43.
13. Krushnpalsinh, IP and Vinaya Kumar, HM. 2020. Farmers perception about Krishi Jivan Farm Magazin. *Gujarat Journal Extension Education*. **31**(2): 155-159
14. Krushnpalsinh, IP and Vinaya Kumar, HM, 2020. Farmers' perception and their suggestions for improving the effectiveness of Krishi Jivan Farm Magazin. *Gujarat Journal Extension Education*. **31**(1): 141-147.
15. Munetsi, EM, and Chauhan, NB. 2020. Readiness of postgraduate agricultural scholars to accept rural jobs. *Gujarat Journal Extension Education*. **31**(1):26-28.
16. Patel, JM, Patel, JB and Patel, PC. 2020. Development of scale to measure attitude of agricultural students towards agricultural journalism. *Gujarat Journal Extension Education*. **31**(2):1-4.
17. Patel, JM, Patel, JB and Patel, PC. 2020. Relationship between profile of the students and their attitude towards agricultural journalism. *Gujarat Journal Extension Education*. **31**(1):99-100.
18. Saini, H. and Meena, ML. 2020. Analysis the Functional Characteristics of Self Help Groups in Pali District of Rajasthan, India. *International journal of Current Microbiology and Applied Sciences*. **9**(3): 1340-1347.
19. Thakur, NB, and Patel, JB. 2020. Decision making ability of farmwomen in agricultural development. *Gujarat Journal Extension Education*. **31**(2): 123-126.
20. Thakur, NB, & Patel, JB. 2020. Relationship between decision making ability of farmwomen in family welfare and agricultural development with their profile. *Gujarat Journal Extension Education*. **31**(1): 101-105.

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21. Vegad, NM, Parmar, RS and Chauhan, NB, 2020. E-extension employability of scholars pursuing postgraduation in agricultural extension in SAUs: using data mining technique. *Gujarat Journal Extension Education*. **31**(1):11-17.
22. Naveenkumar, G and Chauhan, NB. 2020. Device to Measure Extension Education Orientation of Postgraduate Scholars. *Indian Research Journal of Extension Education*. **20**(1): 31-34.
23. Elvis, M. and Chauhan, NB. 2019. Willingness of agricultural postgraduate scholars to accept rural occupation. *Gujarat Journal Extension Education*. **30**(2): 34-37.
24. Ghetiya, NG, Patel, JB and Patel, PC. 2019. Awareness of members of farmers' interest group about significance of Agricultural Technology Management Agency. *Gujarat Journal Extension Education*. **30**(2): 122-124.
25. Gulkari, KD and Chauhan, NB. 2019. Attitude of the farmers towards drip irrigated banana cultivation. *Gujarat Journal Extension Education*. **30**(2): 69-72.
26. Gulkari, KD and Chauhan, NB. 2019. Suggestions of the banana growers to overcome the constraints faced in adoption of risk management practices in drip irrigated banana cultivation. *Gujarat Journal Extension Education*. **30**(2): 120-121.
27. Jagadeeswari, B, Vinaya Kumar, HM and Patel, JB. 2019. Attitude of postgraduate students towards research. *Gujarat Journal Extension Education*. **30**(1): 87-89.
28. Joshi, PJ, Chauhan, NB and Patel, JB. 2019. Information collection inclination of extension personnel of SAUs of Gujarat. *Gujarat Journal Extension Education*. **30**(2): 182-184.
29. Naveenkumar, G and Chauhan, NB. 2019. Tool to Measure Attitude of Postgraduate Scholars towards Extension Service. *Journal of Krishi Vigyan*. **8** (1): 279-283.
30. Patel, JH, Chauhan, NB and Makwan, AR. 2019. Extent of agricultural journalism skill of the postgraduate students of agriculture college. *Gujarat Journal Extension Education*. **30**(1): 72-76.
31. Patel, JB, Chauhan, NB and Joshi, PJ. 2019. Knowledge about yoga possessed by students study in final year of B. Sc. (Agri.). *Gujarat Journal Extension Education*. **30**(1): 93-95
32. Patel, JB., Chauhan, NB and Joshi, PJ. 2019. Attitude and exposure about Yoga by students study in final year of B. Sc. (Agri.). *Gujarat Journal Extension Education*. **30**(2): 195-196.
33. Pithiya, ND and Chauhan, NB. 2019. Scale to measure attitude of farmers towards DD Kisan channel. *Gujarat Journal Extension Education*. **30**(2): 50-52.

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34. Pithiya, ND and Chauhan, NB. 2019. The profile of the DD Kisan viewer farmers of Anand district. *Gujarat Journal Extension Education*. **30(2)**: 169-172
35. Sondarva, YM, Desai, CP and Patel, JB. 2019. Constraints faced by the banana growers in adoption of innovative banana technology. *Gujarat Journal Extension Education*. **30(2)**: 55-58.
36. Saini, H and Chauhan, NB. 2019. Development and standardization of a test to measure knowledge level of women about kitchen gardening. *Gujarat Journal Extension Education*. **30(2)**: 101-105
37. Vinaya Kumar, HM, Chauhan, NB, Patel, DD and Patel, JB. 2019. Predictive factors to avoid farming as a livelihood. *Economic Structures* **8(10)**:1-19. [DOI.org/10.1186/s40008-019-0141-7](https://doi.org/10.1186/s40008-019-0141-7)
38. Vegad, NM and Chauhan, NB. 2019. Development of scale to measure the attitude of the postgraduate scholars towards e-extension employability. *Gujarat Journal Extension Education*. **30(2)**: 1-4.
39. Ghetiya, NG, Darji, AR and Patel, JB. 2018. Association between profile of students and their knowledge about Krishikosh. *Guj. J. Ext. Edu.* **29(1)**: 102-103.
40. Ghetiya, NG, Khatri, KD and Patel, JB. 2018. Attitude of agriculture students towards agro-tourism as an enterprise. *Guj. J. Ext. Edu.* **29(2)**: 208-210.
41. Ghetiya, NG, Patel, PC and Patel, JB. 2018. Knowledge of students about Krishikosh. *Trends in Biosciences*. **11(26)**: 3445-3447.
42. Gulkari, KD and Chauhan, NB. 2018. Adoption of risk management practices in drip irrigated banana cultivation. *Guj. J. Ext. Edu.* **29(1)**: 86-88.
43. Gulkari, KD and Chauhan, NB. 2018. Profile analysis of risk management practices adopter farmer in drip irrigated banana cultivation. *Guj. J. Ext. Edu.* **29(1)**: 236-242.
44. Khatri, KD and Chauhan, N.B. 2018. Development of scale to measure the attitude of farmers' sons towards permanently working in rural area *Guj. J. Ext. Edu.* **29(1)**: 1-2.
45. Netravathi, G and Chauhan, NB. 2018. Social and communication variables and their measurement in climate change studies. *Guj. J. Ext. Edu.* **29(1)**: 52-57.
46. Patel, JB and Chauhan, NB. 2018. Development of scale to measure the attitude of farmers towards Kankrej cow. *Guj. J. Ext. Edu.* **29(2)**: 178-179.

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47. Patel, JB and Chauhan, NB. 2018. Development and standardization of scale to measure attitude towards yoga as a tool of human resource development. *Guj. J. Ext. Edu.* Special issue on National Seminar, April 2018 pp:99-100.
48. Patel, JB, Chauhan, NB and Vinaya Kumar, HM. 2018. Attitude of farmers towards farmers Interest group in Anand district of Gujarat. *Guj. J. Ext. Edu.* **29**(1): 112-116.
49. Patel, JB, Chauhan, NB and Vinaya Kumar, HM. 2018. Relationship between attitude of farmers towards FIG and their profile in Anand district of Gujarat. *Guj. J. Ext. Edu.* **29**(2): 174-177.
50. Patel, PC and Patel, JB. 2018. Attitude of tribal livestock owners towards vaccination in ruminants. *Guj. J. Ext. Edu.* **29**(1): 16-17.
51. Saini, H and Chauhan, NB. 2018. Attitudinal impact of dairy farmers of middle Gujarat towards dairy enterprise. *Guj. J. Ext. Edu.* **29**(1): 107-108.
52. Shukla, AP, Patel, MR and Chauhan, NB. 2018. Constraints faced by the farmers and suggestions given by them to overcome constraints for adoption of tissue culture technology in banana. *Guj. J. Ext. Edu.* Special issue on National Seminar, April 2018 pp:56-58.
53. Shukla, AP, Patel, MR and Chauhan, NB. 2018. Attitude of the farmers towards tissue culture raised banana technology. *Guj. J. Ext. Edu.* Special issue on National Seminar, April 2018 pp:7-10
54. Thakur Nidhi, B and Chauhan, NB. 2018. Suggestions from the farmers' sons to make vocational training more accessible for rural youths in Anand taluka of Gujarat. *Guj. J. Ext. Edu.* Special issue on National Seminar, April 2018 pp:160 -162.
55. Thakur Nidhi, B and Chauhan, NB. 2018. Problems faced by farmers' sons in satisfying various training needs in anand taluka of Gujarat. *Guj. J. Ext. Edu.* Special issue on National Seminar, April 2018 pp:25-27
56. Thakur Nidhi, B and Chauhan, NB. 2018. Relationship between level of vocational training needs of the farmers' sons and their profile in anand taluka of Gujarat. *Guj. J. Ext. Edu.* Special issue on National Seminar, April 2018 pp:125-1127.
57. Vinaya Kumar, HM, Patel, JB and Chauhan, NB. 2018. Attitude of farmers towards agricultural produce market committee. *Guj. J. Ext. Edu.* **29**(2): 224-226.

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58. Vinaya Kumar, HM, Chauhan, NB and Patel, JB. 2018. Doubling the small and marginal farmers income: issues, challenges and strategies. *SEEG National Seminar on Extension Strategies for Doubling the Farmers' Income for Livelihood Security*: 1-11
59. Vinaya Kumar, HM and Shivamurthy, M. 2018. Adaptation to Mitigate Climate-Induced Crisis by Farmers in Coastal Zone of Karnataka, India. *Current Journal of Applied Science and Technology*, 30(5): 1-13. **DOI**: 10.9734/CJAST/2018/41134
60. Darji, AR, Panchasara, BR and Vinaya Kumar, HM. 2017. Determinants of attitude of the post graduate research scholars towards the use of computer for their empowerment. *Gujarat Journal of Extension Education*. **28**(2): 277-281.
61. Haseena, B, Patel, MC and Patel, JB. 2017. Dynamic Profile of PG Girl Scholars of Anand Agricultural University and their Scope in Participating in Extracurricular Activities. *Gujarat Journal of Extension Education*. **28**(2): 288-292.
62. Haseena, B, Patel, MC and Patel, JB. 2017. Extent of participation of PG Agricultural girl scholars of AAU in organised extracurricular activities. *Gujarat Journal of Extension Education*. **28**(1): 185-188.
63. Haseena B, Patel, JB and Patel, PC. 2017. Constraints Faced by the Farmers in attending Farmer Field School (FFS) in Anand district of Gujarat. *Gujarat Journal of Extension Education*. **28**(2): 185-188.
64. Haseena, B, Patel, JB and Patel, PC. 2017. A Scale to Measure the Attitude of the Farmers towards Farmer Field School (FFS). *Gujarat Journal of Extension Education*. **28**(1): 11-13.
65. Saini, H and Chauhan, NB. 2017. Development and Standardization of Attitude Scale of women towards kitchen gardening. *Agriculture Update*. **12**(4): 734-736.
66. Saini, H. 2017. Development and Standardization of Attitude Scale of Farmers towards Vermicompost. *Agriculture Update*. **12**(4),728-730
67. Saini, H. 2017. A Test to Measure Knowledge about recommended Jojoba cultivation practices. *Gujarat journal of Extension Education*. **28**(2): 231-234.
68. Ninama, M, Patel, JB and Patel, PC. 2017. Scientific orientation of Check dam's beneficiary and non-beneficiary Tribal farmers and its relationship with their socio-techno-economic status. *Gujarat Journal of Extension Education*. **28**(1):37-39.

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69. Shukla, AP and Chauhan, NB. 2017. Limitations to Popularize Mobile Technology to Transfer Agricultural Information. *International Journal of Current Microbiology and Applied Sciences*. **6**(6): 720-723.
70. Shukla, AP and Chauhan, NB. 2017. Suggestions of the Extension Educationists to Popularize Mobile Technology to Transfer Agricultural Information. *International Journal of Current Microbiology and Applied Sciences*. **6**(6): 724-727. **DOI:** <https://doi.org/10.20546/ijcmas.2017.606.085>
71. Patel, B, Patel, MR and Patel, A. 2017. Development of scale to measure the knowledge about drip irrigation system of drip irrigated banana growers. *Gujarat Journal of Extension Education*. **28**(1):1-7.
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73. Patel, B, Patel, MR and Patel, A. 2017. Education and its relationship with level of knowledge about drip irrigation system of drip irrigated banana growers. *Gujarat Journal of Extension Education*. **28**(1):100-102.
74. Patel, B, Patel, MR and Patel, A. 2017. Risk orientation and its relationship with level of knowledge about drip irrigation system of drip irrigated banana growers. *Gujarat Journal of Extension Education*. **28**(1):192-194.
75. Patel, B, Patel, MR and Patel, A. 2017. Economic motivation and its relationship with level of knowledge about drip irrigation system of drip irrigated banana growers. *Gujarat Journal of Extension Education*. **28**(2):285-287.
76. Thakur, NB, Prajapati, JD and Rupapara, K. 2017. Attitude of post graduate students towards agriculture entrepreneurship. *Gujarat Journal of Extension Education*. **28**(2):293-295.
77. Thakur, NB and Chauhan, NB. 2017. Vocational training need as perceived by farmers' sons in Anand taluka of Gujarat. *Gujarat Journal of Extension Education*. **28**(1):79-81.
78. Vihariya, P, Patel, MR and Desai, JD. 2017. Profile of polytechnic students and their Attitude towards Sustainable agriculture. *Gujarat Journal of Extension Education*. **28**(1):139-141
79. Vihariya, PH, Patel, MR and Patel, PC. 2017. Awareness of vegetable growers about hazardous effect caused through pesticide residues in vegetables. *Gujarat Journal of Extension Education*. **28**(1):123-125.

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80. Vinaya Kumar H.M., Shivamurthy, M., and Lunagaria, MM. 2017. Rainfall Trend Analysis and Adaptation Strategies to Manage Climate-Induced Crisis in Coastal Zone of Karnataka, India. *Journal of Scientific Research and Reports*. **13(5)**: 1-11. **DOI**: 10.9734/JSRR/2017/32709
81. Vinaya Kumar H.M., Shivamurthy M., and Lunagaria, MM. 2017. Impact of rainfall variability and trend on rice yield in Coastal Karnataka. *Journal of Agrometeorology*. **19 (3)**: 286-287.
82. Vinaya Kumar H.M., Shivamurthy, M, Govinda Gowda, V and Biradar, GS. 2017. Assessing decision-making and economic performance of farmers to manage climate-induced crisis in Coastal Karnataka (India). *Climatic Change*. **142 (1)**: 143–153. **DOI**:10.1007/s10584-017-1928-x
83. Chauhan, NB and Vinaya Kumar, HM. 2016. Gender Responsive Climate Change Strategies for Sustainable Development. *Productivity*. **57(2)** :182-186.
84. Choudhary, MK, Patel, PC, Sharma, PK, and Patel, JB. 2016. Extent of knowledge and adoption of tomato growers about tomato production technology. *International Journal of Agriculture Sciences*. **(8)**:1521-1523.
85. Kishan, K, Chauhan, NB and Patel, JB. 2016. Meeting challenges in farming suggestions offered by neem tree owner farmers to popularize neem- An Indian perspective. *International Journal of Current Research*. **8(8)**: 37435-37436.
86. Kishan, K, Chauhan, NB and Patel, JB. 2016. Development of scale to measure attitude of the farmers towards neem based bio-pesticides. *International Journal of Agriculture Sciences*. **8 (21)**: 1394-1395.
87. Ninama, MD, Patel, JB and Raghuvansh, SK. 2016. Relationship between Impact of Check dams on Socio-economic Status of Tribal Farmers. *Gujarat Journal of Extension Education*. **27 (2)**: 204-205.
88. Ninama. AP, Sipai, SA, Khadayata. KG and Patel, CP. 2016. Floriculture in India: Problems and Prospect. *Advances in Life Sciences*. **5(4)**: 1150-1153.
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90. Patel, TR, Chaudhary, KL, Parmar, KM, Chaudhary, DD and Dhandhukia, RD. 2016. Decision making pattern of farm women in relation to selected different agriculture activities. *Eco. Env. & Cons*. **22**: S1-S4.

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91. Patel, PC, Patel, JB and Ninama, AP. 2016. Constraints faced by tribal livestock owners in adopting vaccination in ruminants. *International Journal of Agriculture Sciences*. **8** (23): 1410-1413.
92. Shukla, AP, Chauhan, NB and Patel, TR. 2015. Limitations (realized) and suggestions given by the extension educationists to establish agricultural FM radio (AFMR) to transfer agricultural information. *Trends in Biosciences*, **8**(4): 879-882.
93. Shukla, AP and Chauhan, NB. 2016. AFMR (Agricultural FM Radio): A tool for transforming agricultural information in relation to different variables of extension education, *International Journal of Agriculture Sciences*. **8**(13): 1180-1181/
94. Vinaya Kumar, HM, Shivamurthy, M and Biradar, GS. 2016. A Scale to Measure climate-induced Crisis Management of Farmers in Coastal Karnataka (India). *Advances in Life Sciences*. **5**(16): 6206-6212.
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Book Chapter

1. Vinaya Kumar, HM and Suresh Babu 2021. Building a Resilient Food System: Challenges and a Way Forward. Climate Change and Resilient Food Systems. **DOI: 10.1007/978-981-33-4538-6_1**.
2. Vinaya Kumar, H. M, Gattupalli, N, Babu, SC and Bhatia, A. 2020. Climate-Smart Small Millets (CSSM): A Way to Ensure Sustainable Nutritional Security. In: Venkatramanan V., Shah S., Prasad R. (eds) *Global Climate Change: Resilient and Smart Agriculture*. Springer, Singapore. **DOI: https://doi.org/10.1007/978-981-32-9856-9_7**

Gujarati book chapter

1. Soni, VN, Patel, DD and Patel, JB, 2017-18. Masala Pako, Spice herbal and essential oil extraction project. A book published by Anand Agricultural University, Anand.
2. Patel, PC, Soni, NV and Patel, JB, 2018-19. Kudarati strioto in vyavasthanpan, Global warming ane vatavaran upar teni asaro. A book published by Anand Agricultural University, Anand.

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3. Soni, VN, Patel, DD and Patel, JB, 2018-19. Kudarati stroto ni vyavasthapan, Vruxo dwara paryacaran samtula ane pradushhan niyantran. A book published by Anand Agricultural University, Anand.
4. Soni, VN, Patel, JB and Patel, DD, 2019-20. Kheduto udyog sahsik bane, Suksham Dhiran (Micro credit). A book published by Anand Agricultural University, Anand.

Books

1. Vinaya Kumar, H. M., and Shirur Mahantesh 2021. Climate Change and Resilient Food Systems Issues, Challenges, and Way Forward, Springer. ISBN 978-981-334-537-9, DOI 10.1007/978-981-33-4538-6
2. Patel, J. B., Hemlata Saini and Vinaya Kumar, H. M., 2017. Professional Extension Skills, Asian Printery, Gujarat, India. ISBN Number: 978-93-5279-053-1
3. Chauhan, N. B., Patel, J. B., Vinaya Kumar, H. M., Hemlata Saini and Krunal D. Gulkari 2016. Measurement of Attitude: Scales to measure attitude towards various components of rural and agricultural development. Asian Printery, Gujarat, India. ISBN Number: 978-93-5268-207-2.

Undergraduate manual

1. Vinaya Kumar, HM, Patel, JB and Hemlata Saini 2018. Fundamentals of Agricultural Extension Education. Asian Printers, Gujarat, India ISBN Number: 978-93-5346-292-5.
2. Patel, JB, Hemlata Saini and Vinaya Kumar, HM. 2017. Practical Manual: Entrepreneurship Development. Asian Printery, Gujarat, India. ISBN Number: 978-93-5268-517-2
3. Patel, JB, Vinaya Kumar, HM and Hemlata Saini 2017. Practical Manual: Extension Methodologies for Transfer of Agricultural Technology. Asian Printery, Gujarat, India. ISBN Number: 978-93-5268-439-7.

Popular article

1. Patel, PC, Patel, JB, Desai, JD and Panchasara, BR. 2016. "*Vividh mahiti mate i-kedut portal no upyog karo*". Krishi Govidya
2. Patel, PC, Patel, JB and Desai, JD. 2016. "*Kheduto mate vividh sevao*". Krishi Govidya
3. Hemlata, S and Meena, ML. 2018. "*Pashuon ke liye jeevan Rakshak hai Ajola*". Kheti. 4: 31-33.
4. Hemlata Saini 2019. "Swasthiya aur smurdhi ke liye jevik kheti". Kheti. 72: 43-46.
5. Suchitra, Narpat Singh and Hemlata Saini 2021. "*Bajra Khane ke bemisal fayade*". *Krishak Surkhya*. 8(16): 22-25.

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Krishak Surkhya. 8: 7-13.