

Technical Bulletin No:52



Bibliography of Institute's Publications VOL-I (1988-2014)



भाकृअनुप-केंद्रीय तटीय कृषि अनुसंधान संस्थान
(भारतीय कृषि अनुसंधान परिषद)

एला, ओल्ड गोवा - ४०३ ४०२, गोवा, भारत

ICAR-Central Coastal Agricultural Research Institute

(Indian Council of Agricultural Research)

Ela, Old Goa - 403 402, Goa, India.



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**ICAR-Central Coastal Agricultural
Research Institute**

(Indian Council of Agricultural Research)

Ela, Old Goa - 403 402, Goa, India

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Foreword

ICAR Research Complex for Goa was established during April, 1976 as a regional centre under ICAR Research Complex for Northeast Hill region, Shillong, Meghalaya. Subsequently it became the regional centre under CPCRI, Kasargod. Considering the importance of agriculture in Goa state, ICAR, New Delhi, upgraded the centre into an Independent Institute from April, 1989. Recently, this Institute has been renomenclatured as ICAR-Central Coastal Agricultural Research Institute, to expand its horizon of jurisdiction. Ever since its establishment, the scientists and other staff of the institute has published many research papers, popular articles, book chapters and other publications. The performance of any Institute along with the individuals is evaluated based on the publications they come up with. Hence the publications, forms the major and important source of references for research and future studies.

This bibliography of Institute's publications includes documentation of various research papers published by the scientists and other staff in peer research journals, popular articles, papers presented by scientists in various seminars symposiums, etc., and other published training manuals, notes, annual reports, technical bulletins, research bulletins along with the extension folders since last 26 years (1988 till 2014).

I am happy that IPR Cell of this Institute has taken efforts and initiative to compile the bibliographic references since year 1988 till 2014 in the form of a Bibliography so that the information will be easily available to the readers. I congratulate Mrs. Anuradha N. Naik for her efforts and confident that this publication will be a very useful resource material for the scientists, researchers, extension workers, students and farmers for planning their future work.

(N.P. Singh)

PREFACE

Scientists of the Institute along with the other staff members conduct significant research work, and contribute to the Institute's performance in the form of publications. These publications include research papers, research articles, book chapters, annual reports etc. However the information published in various research disciplines of the complex are scattered in different annual reports published by Institute. Hence it is felt worthwhile to compile all the information on publications in one single document in the form of bibliography, so that it is available at one place for ready reference and record to the researchers and readers.

All the publications of the Institute, since year 1988 to 2014 in the form of various research papers published by the scientists and other staff in research journals, research articles, popular articles, published books and book chapters, papers presented by scientists in various seminars symposiums, etc., and other published training manuals, notes, annual reports, technical bulletins, research bulletins along with the extension folders are documented in the form of bibliographic reference.

While bringing out this bibliography of the Institutes publications I sincerely acknowledges the opportunity and encouragement extended by the ICAR, New Delhi, for the kind support provided. My sincere thanks is due to Director of the Institute, Dr. Narendra Pratap Singh, for his constant inspiration, encouragement and active support to bring out, and publish this bibliography. The impeccable timely support by Dr. J.R. Faleiro and Dr. R. Ramesh and Dr. A.R. Desai who served as IPR Cell co-ordinators are also gratefully acknowledged. Support and suggestions provided by scientists and all the technical and administrative staff are sincerely acknowledged.

I anticipate that this Bibliography would be useful in providing all the publication and references in one document for easy access of the scientists, researchers, extension workers, students and other readers for their future research work and reference.

ANURADHA N. NAIK

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- ❖ Bhattacharyya, A.R and Sundaram, R.N.S. 1988. Performance of cross-bred pigs under Goa condition. *Indian J. Anim. Res.* **22**(1): 53-54.
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- ❖ Saurabh, S., Sushma, G.S., Choudhury, A.K. and Mohanta, K.N. 2004. Chromosome engineering in aquaculture. *Aqua-International* **12**(4): 15-18.
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- ❖ ICAR Research Complex for Goa 2004. News letter Volume V (No.2) and Vol.VI (No.1). Editor, Barbuddhe, S.B.
- ❖ Report on impact evaluation of watershed development project under NWDPRRA at Barcem, Goa. Prepared for *National Watershed Development Project for Rain fed Areas*, Department of Agriculture, Government of Goa, Panaji - 403 001. January, 2004. Eds. Manivannan, S. and Korikanthimath, V.S.
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- ❖ ICAR Research Complex for Goa 2007. Annual Report (2006-2007) Editor: Faleiro, J.R. and Korikanthimath, V.S.: 82pp.
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- ❖ Krishi Vigyan Kendra, North Goa, Annual Report 2007 (2006-07). Editor: Raj Narayan and V.S. Sakharkar, ICAR Research Complex For Goa, Ela, Old Goa: 56p.
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3. Popular Articles

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- ❖ Faleiro, J.R. and Satarkar, V.R. 2008. Potential of baits and botanicals in insect pest management. In training manual for *Entrepreneurial Skill Development Programme in Biotechnology (Bio-pesticides and Bio-fertilizers)*.

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- ❖ Veerabhadraiah, V., Korikanthimath, V.S., Anand, T.N., Manivannan, S., Chakurkar, E.B. and Lakshman Reddy, B.S. 2008. International seminar on strategies for improving livelihood security of rural poor. Lead papers and abstracts, 24-27th September, ICAR Research Complex for Goa, Ela, Old Goa-403402, Goa, India.



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- ❖ Kaur, S., Malik, S.V.S., Bhilegaonkar, K.N., Vaidya, V.M., Barbuddhe, S.B. 2009. Use of phospholipase-C assay, in vivo pathogenicity assays and PCR in assessing the virulence of *Listeria* spp. *Veterinary Journal* **184**:366-370.
- ❖ Korikanthimarh, v.S. and Manjunath, B.L. 2009. Integrated farming systems for sustainability in agricultural production. *Indian Journal of Agronomy* **54**(2): 140-148.
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- ❖ Satarkar, V.R., Krishnamurthy, S.V., Faleiro, J.R., and Verghese, A. 2009. Spatial distribution of major *Bactrocera* fruit flies attracted to methyl eugenol in different ecological zones of Goa, India. *International Journal of Tropical Insect Science* **29**(4): 195-201.
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- ❖ Thangam, M., Ladaniya, M.S. and Korikanthimath, V.S. 2009. Performance of Gerbera varieties in different growing media in naturally ventilated polyhouse under coastal humid conditions of Goa. *Indian Journal of Horticulture* **66**(1): 79-82.

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- ❖ Swain, B.K. and Chakurkar, E.B. 2011. Effect of maxigro supplementation of sunflower based diets on production performance of Vanaraja laying hens. *Indian Veterinary Journal* **88**:51-53.
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2. Paper presented in Symposium/Seminar/Workshop:

- ❖ Achari, G. and Ramesh, R. 2011. Antagonistic and growth promotion activity of xylem residing bacteria isolated from eggplant and chilli. *National symposium on "Microbial diversity and its applications in health, agriculture and industry*, held at ICAR Research Complex for Goa, Old Goa, Goa, India, on 4-5th March, 2011: 51-52.
- ❖ Arunachalam, V. 2011. Sequence diversity and pathogenicity of *Pseudomonas*. *National seminar on Microbial diversity in agriculture health and industry* at ICAR Research Complex for Goa, Goa on 4-5th March, 2011.
- ❖ Arunachalam, V., Singh, N.P., Thangam, M., Priya Devi, S. 2011. Ethnobotany and underutilized plants of Goa state, India. *International conference on tropical island ecosystems Tiecon 2011* held at Central Agricultural Research Institute Port Blair on 23-26th March, 2011.
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- ❖ Barbuddhe, S.B. and Malik S.V.S. 2011. Emerging or re-emerging Zoonoses: Status in India. Lead paper presented at *National Symposium on Veterinary Public Health: New Horizon for Integrating the Animal Production, Food Safety and Human Health* organized by Mumbai Veterinary College, Mumbai during 28-29th January, 2011.
- ❖ Barbuddhe, S.B., Desai, A.R., Doijad S.P. and Singh, N.P. 2011. Diversity of yeasts isolated from fermented Cashew apple juice. Paper presented at *National Symposium on Microbial Diversity and its applications in Health, Agriculture and Industry* organised by ICAR Research Complex for Goa, Old Goa during 4-5th March, 2011.
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- ❖ Barbuddhe, S.B. 2011. Rabies. Guest lecture on occasion of *World Veterinary Day*, held at Maquinez Palace, Panaji, Goa during 30th April, 2011.
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- ❖ Barbuddhe, S.B. 2011. Future trends in brucellosis. Invited talk delivered at Model Training course on *Comprehensive approaches for the diagnosis and control of brucellosis in the country* at Project Directorate on Animal Disease Monitoring and Surveillance, Hebbal, Bangalore on 7th September, 2011.
- ❖ Barbuddhe, S. B. and Chakraborty, T. 2011. Epidemiology of human listeriosis in India. Oral presentation at *Second International Conference on Holistic Medicine (ICHM-2011)*, during 11-13th September, 2011 in Kottayam, Kerala.
- ❖ Chakurkar, E.B., Naik, P.K., Swain, B.K., and Singh, N.P. 2011. Reproductive Performance of Female Crossbred Pigs in Goa. In: *Proceedings of International Conference on ‘Tropical Island Ecosystems: Issues Related to Livelihood, Sustainable, Development and Climate Change’* held at Central Agricultural Research Institute, Odisha, India during 23-26th March, 2011: 229-230.
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- ❖ Das S. K. and Singh, N. P. 2011. “Effect of micro environmental changes on pig production” Presented in the poster session entitled “Sustainable livestock and poultry Production” of the *XXth Annual Conference of SAPI and International symposium on “Advances in Physiologic research for sustainable development of livestock and poultry production”* held at WBUAFS, Kolkata during 2 -4th November, 2011.



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- ❖ D'Costa, D., Bhosle, S.N., Dhuri, R.B., Doijad S.P. and Barbuddhe, S.B. 2011. Occurrence, virulence genes and antibiotic resistance of *Escherichia coli* isolated from raw bovine milk in Goa. Paper presented at *National Symposium on Veterinary Public Health: New Horizon for Integrating the Animal Production, Food Safety and Human Health* organized by Mumbai Veterinary College, Mumbai during 28-29th January, 2011.
- ❖ Desai, A.R., 2011. Improved production technology for Pineapple in Konkan region. The invited talk was delivered in the *Workshop on Konkan Conclave 2011 organized by Agricultural & Processed Food Products Export Development Authority (APEDA) and Goa Chambers of Commerce & Industry on the topic "Various food loss and facilities available for Agricultural Exports"* on 20th October, 2011.
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- ❖ Doijad, S.P., Garg, S., Sapte, S., Rodrigues, J., D'Costa, D., Bhosle, S. and Barbuddhe, S.B. 2011. Isolation and characterization of *Listeria* species from milk processing plant. Paper presented at *National Symposium on Veterinary Public Health: New Horizon for Integrating the Animal Production, Food Safety and Human Health* organized by Mumbai Veterinary College, Mumbai during 28-29th January, 2011.
- ❖ Doijad, S.P., Garg, S., Poharkar, K., D'Costa, D., Kalekar, S., Rodrigues J., Bhosle, S. and Barbuddhe, S.B. 2011. Biofilm formation ability of *Listeria monocytogenes* isolates from food processing units. Paper presented at *International Conference of Microbial Diversity for Sustainable Development Chandigarh, Panjab, India*.
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- ❖ Gaitonde, S., Ramesh, R. and Achari, G. 2011. Pathogenic characterization of *Ralstonia solanacearum* strains from Goa. IPS (West zone) Symposium on *Recent trends in disease management of horticultural crops* during 19-20th October, 2011 held at BSKKV, Dapoli, Maharashtra, India pp. 120 (abs).
- ❖ Gaitonde, S. and Ramesh, R. 2011. Genetic characterization of *R. solanacearum* strains from Goa. *Symposium on Microorganisms and Plant health*, during 4-5th November, 2011 held at Guwahati University, Assam. India pp.16 (Abs)



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- ❖ Katkar, S.M., Zende, R.J., Paturkar, A.M., Barbuddhe, S.B., Sajjan, S.A. and Bhadrige, V.V. 2011. Molecular characterization of *Listeria* obtained from clinical cases of sheep and goats with reproductive disorders. Paper presented at *National Symposium on "Veterinary Public Health: New Horizon for Integrating the Animal Production, Food Safety and Human Health"* organized by Mumbai Veterinary College, Mumbai during 28-29th January, 2011.
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- ❖ Mohanta, K.N and Subramanian, S. 2011. Effect of protein and lipid levels on growth and nutrient utilization of angel fish, *Petrophyllum scalare*. Abstracts in *Asian-Pacific Aquaculture and Giant Prawn 2011* at World Aquaculture Society and Fisheries College, Kerala.
- ❖ Manohara, K.K. and Singh, N.P. 2011. Trational rice varieties of Goa and protection of farmers'rights. In: *Proceeding of training-cum-Awareness programme on Protection of Plant Varieties and Farmers' Rights Act, 2001. Training Manual No.14*. ICAR Research Complex for Goa, Goa.
- ❖ Manohara, K.K. 2011. Mode of pollination in crop plants and quality seed production. In: *Seed production in Agricultural Crops with special reference to pulses and oilseeds* at ICAR Research Complex for Goa, Goa India during 10-11th March, 2011.
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- ❖ Ramesh, R., Gaitonde, S. and Achari, G. 2011. Genetic diversity of *Ralstonia solanacearum* from Goa. National symposium on *Microbial diversity and its applications in health, agriculture and industry* held during 4-5th March, 2011 at ICAR Research Complex for Goa, Old Goa, Goa, India (Extended summary): 33-34 pp.
- ❖ Ramesh, R. 2011. Insect pest and disease management in rice and rice based cropping system. In: *Training manual on Seed production in agricultural crops with special reference to pulses and oilseeds* held at ICAR Research Complex for Goa 10-11th March, 2011.
- ❖ Ramesh, R., Achari, G. and Gaitonde, S. 2011. Molecular techniques for characterization and detection of phytopathogenic bacteria. In: *Training Manual on "Molecular subtyping of microbes using pulsed field gel electrophoresis"*. (eds.) Barbuddhe, S.B., Ramesh, R., Doijad, S.P., Poharkar, K.V., Achari, G., Gaitonde, S. and D'Costa, D. ICAR Research Complex for Goa.
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- ❖ Rawool, D.B. and Barbuddhe, S.B. 2011. An overview on rapid detection of food-borne pathogens. Lead paper presented at *National Symposium on "Veterinary Public Health: New Horizon for Integrating the Animal Production, Food Safety and Human Health"* organized by Mumbai Veterinary College, Mumbai during 28-29th January, 2011.
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- ❖ Singh, N.P., Thangam, M., Arunachalam v., Desai, A.R., priya Devi, S., Safeena, S.A. 2011. Role of tuber crops in achievittg food security in Goa. Paper presented in *National seminar on Climate change and food security: Challenges and opportunities for tuber crops* held at Central Tuber Crops Research Institute Tiruvanthapuram during 20-22nd January, 2011.
- ❖ Singh, N.P., Desai, A.R., Thangam, M., Priya Devi, S. and Arunachalam, V. 2011. History and Status of research of mango genetic resources at Goa state, India. Paper presented in Global Conference on *Mango: Augmenting Production and Utilization of Mango: Biotic and Abiotic Stresses* at The Lifestyle Hotels Pvt. Ltd, Kanpur Road, Lucknow during 21-24th June, 2011.
- ❖ Sonegaonkar, A., Kalorey, D.R., Warke, S., Ingle, S., Patil, S., Katwate, S.R., Thombare, V.R., Kurkure, N.V. and Barbuddhe, S.B. 2011. Detection and Characterization of *Listeria* species from human clinical cases. Paper presented at *National Symposium on Microbial Diversity and*



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- ❖ Verma, R.R. 2011. Integrated nutrient management for quality seed production. *Training manual on "Seed production in agricultural crops with special reference to pulses and oil seeds* held during 10-11th March, 2011 at ICAR Research Complex for Goa, Goa India: 39-43pp.

3. Popular /Technical Articles

- ❖ Desai, A.R. 2011. Improved production practices for cashew. *Annapoorna Sampoorana Sarvada*1(2):35-39.
- ❖ Desai, A.R. 2011. Nucleus and breeder seed production and seed chain. In: Compendium on training Programme on *Seed Production in Agricultural Crops with Special Reference to Pulse and Oilseeds* held during 10-11th March, 2011.
- ❖ Desai, A.R. and Singh, N.P. 2011. Profile on AICRP on Cashew Centre- ICAR Research Complex for Goa. Souvenir, National Expert Consultation on Cashew : Challenges and Strategies for Higher Productivity and Quality of Cashew.Pp. 57-59.
- ❖ Desai, A.R. and Singh, N.P. 2011. Prospects and Potential of Horticultural crops in Goa. *Eco-Goa The Earth Hour* 1(1): 3 - 6.
- ❖ Ramesh, R. 2011. Insect pest and disease management in rice and rice based cropping system. In: Training manual on *Seed production in agricultural crops with special reference to pulses and oilseeds* at ICAR Research Complex for Goa during 10-11th March, 2011.

4. Reports/technical-research bulletins/booklets/proceedings/extension folders/training notes/miscellaneous publications

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- ❖ Barbuddhe, S.B., Ramesh, R., Singh, N.P. 2011. Compilation of abstract of proceedings of National Symposium on “*Microbial diversity and its application in Health, Agriculture and Industry*” ICAR Research Complex for Goa: 28pp.
- ❖ Desai, A.R., Singh, S.P., Faleiro, J.R., Thangam, M., Priya Devi, S., Safeena, S. A. and Singh, N.P. 2011. Cashew Germplasm of Goa: Characterization and Cataloging. *Technical Bulletin No 23* ICAR Research Complex for Goa: 1-34pp.



- ❖ Gaonkar, V., Narayan, R., and Singh, N.P. 2011. Turmeric –A Profitable Intercrop in coconut Garden in Goa. In compendium: 6th NEEC-2011 on Emerging Models of Technology Application for Agri-Rural Development held during 17-19th December 2011. KVK-ICAR Research Complex for Goa: 75pp.
- ❖ Manjunath, B.L., Prabhudesai, H.R., Ramesh, R., Manohara, K.K., and Singh, N.P. 2011. Improved production technology for rice in Goa. *Technical Bulletin No 24* ICAR Research Complex for Goa: 1-18pp.
- ❖ Manjunath, B.L., Prabhudesai, H.R. and Singh, N.P. 2011. Technology Package for Higher Sugarcane Production in Goa. *Technical Bulletin No. 26*, ICAR Research Complex for Goa Ela, Old Goa: 1-26 pp.
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- ❖ Mohanta, K.N., Subramanian, S., 2011. Published by Narendra Pratap Singh. Nutrition of Common Freshwater Oramental Fishes. *Technical Bulletin No. 27* ICAR Research Complex for Goa, Ela, Old Goa: 1-48pp.
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- ❖ Narayan, R. and Singh N.P.2011. Agricultural Extension Services Need Transformations. In Compendium :6th NEEC -2011 on Emerging Models of Technology Application for Agri- Rural Development held during 17-19th December, 2011. KVK, ICAR Research Complex for Goa: 83Pp.
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- ❖ Naik, P.K., Chakurkar, E.B., Swain, B.K. and Singh, N.P. 2011. Govyatil Dubhtya Janavarancha Aahar va Aahar Paddhati (Marathi) *Extension Folder No. 44*. ICAR Research Complex for Goa, Ela. Old Goa.
- ❖ Naik, P.K., Dhuri, R.B. and Singh, N.P. 2011. Technology for production and feeding of Hydroponics Green Fodder. *Extension Folder No. 45* ICAR RC for Goa, Ela, Old Goa.
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- ❖ Poharkar K., Doijad S.P. D'Costa D., Kalekar S., Rodrigues J., and S.B. Barbuddhe. 2011. Emergence of resistance of L. monocytogenes toward antibiotics used in current therapies. Paper presented at International Conference of Microbial Diversity for Sustainable Development Chandigarh, Panjab, India.
- ❖ Prabhu, H.R. C. & Published by Narendra Pratap Singh 2011. Trichoderma in Plant Disease Management. Extension Folder No.2 KVK, ICAR Research Complex for Goa.
- ❖ Prabhu, H.R.C., Narayan, R., and Singh, N.P. 2011. Farmers 'Field School-A Novel Extension Tool. In Compendium: 6th NEEC-2011 on Emerging Models of Technology Application for Agri-Rural Development held during 17-19 December 2011. KVK, ICAR Research Complex for Goa: 76pp.
- ❖ Prabhudesai, H.R., Narayan, R., and Singh, N.P. 2011. Socio Economic Scenario of Goa State and its Influence on Extension Efforts in coping with Growing Challenges in Transfer of Technology at Grass Root. In Compendium: 6th NEEC-2011 on Emerging Models of Technology application of Agri-Rural Development held during 17-19 December 2011. KVK, ICAR Research Complex for Goa: 80pp.
- ❖ Prabhudesai, H.R., Narayan, R., and Singh, N.P. 2011. An Experience in Public Private Partnerships in Enhancement of cropping Intensity and livelihood Security of Farmer group in Organic Rice Branding and Marketing in Chorao village. In Compendium :6th NEEC -2011 on Emerging Models of Technology Application for Agri- Rural Development held during 17-19th December 2011 . KVK, ICAR Research Complex for Goa: 86pp.
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- ❖ Prabhudesai, H.R. & published by Narendra Pratap Singh 2011. Vermicomposting – Creating wealth from waste. *Extension Folder No.1*, KVK, ICAR Research Complex for Goa.
- ❖ Priya Devi S. 2011. A review of research and development on kokum in Goa, since 2005. In abstracts of 3rd *National Seminar on Kokum* organized by Western Ghat Kokum foundation at Goa University from 6th to 7th May, 2011: 12-13.
- ❖ Ramesh, R. 2011. Status and management strategies for bacterial wilt of solanaceous crops. IPS (West zone) Symposium on “Recent trends in disease management of horticultural crops” held during 19-20th October 2011 at BSKKV, Dapoli, Maharashtra, India: 23-24 (invited talk).
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- ❖ Singh, N.P., Barbuddhe, S.B., Chauhan, J.C. and Singh A.K. (Editors) 2011. Souvenir of the Sixth *National Extension Education Congress* 2011 held at ICAR Research Complex for Goa, Old Goa, 17-19th December, 2011. ICAR Research Complex for Goa, Ela, Old Goa: 1-100.
- ❖ Singh, N.P. and Desai, A.R. 2011. “Cashew Production in Goa : Research and Prospects”. An Invited Paper presented in “National Expert Consultation on Cashew : Challenges and strategies for Higher Productivity and Quality of Cashew” held at DCR, Puttur during 23-24th December. 2011.
- ❖ Singh, N.P. Desai, A.R., Thangam, M, Priya Devi, S. and Arunachalam, V. 2011. History and Status of research of mango genetic resources at Goa state, India. *Global Conference on Mango: Augmenting Production and Utilization of Mango : Biotic and Abiotic Stresses*” at The Lifestyle Hotels Pvt. Ltd, Kanpur Road, Lucknow. from 21-24th June 2011, page8 -108.
- ❖ Singh, N.P. Mittal, R., Narayan, R. 2011. FAP on agricultural Marketing. ICAR Research Complex for Goa: 1-50pp.
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- ❖ Subramanian S., Janhavi, K. and Singh, N.P. 2011. Studies on the advantages of application of Potential Fishing Zone forecasts on purse seine fishing off the coast of Goa. Abstract No: FR-O-23 in the Technical session on “*Fishery Resources, Recreational Fisheries and Sustainable Management*” at 9th Indian Fisheries Forum held from 19th-23rd December, 2011, organized by CMFRI, Kochi, at Chennai, Tamil Nadu.
- ❖ Swain, B. K., Naik, P. K., Chakurkar, E. B. and Singh, N.P. 2011. Effect of Supplementation of Different Levels of Vitamin E and Selenium on the Performance and Immunity of Gramapriya White Growing Chicks. In: Book of Abstract of 14th *Biennial Conference of Animal Nutrition Society of India on ‘Livestock Productivity Enhancement with Available Feed Resources’* held at GBPUA&T, Pantnagar, Uttarakhand, India, 3-5th November, 2011: 317-318pp.
- ❖ Swain, B. K., Naik, P. K., Chakurkar, E. B. and Singh, N. P. 2011. Effect of different protein sources on the performance of Vanaraja chicks. In: Proceedings of 6th *National Extension Education Congress on ‘Emerging Models on Technology Application for Agri-Rural Development’* held at ICARResearch Complex for Goa, Old Goa, India, 17-19th December, 2011, P. 356.
- ❖ Swain, B.K., Naik, P.K., Chakurkar, E.B., Singh, N.P. 2011. Effect of combined supplementation of probiotic and Yeast on Growth, Carcass Characteristics and Economics of Production in Broiler Chickens. In Souvenir/ Compendium of 28th *Annual Conference & International Symposium of Indian Poultry Science Association (IPSACON-2011)* at Bihar Veterinary College, Patna during 22-24th December, 2011: P65.
- ❖ Swain, B.K., Chakurkar, E.B., Naik, P.K., and Singh, N.P. 2011. Gramapriya – A Backyard Poultry for Egg Production. *Extension Folder No 42* ICAR Research Complex for Goa, Ela, Old Goa.
- ❖ Talaulikar, S., Narayan, R., and Singh, N.P. 2011. Value addition in groundnut. *Extension Folder Krishi Vigyan Kendra*, ICAR Research Complex for Goa.
- ❖ Verma, R. R. 2011. Soil and water management for plantation crops in west coast region of India. *Compenditum training cum exposure visit on commercial production of plantation crops*, Krishi Vigyan Kendra, ICAR Research Complex for Goa, Ela, Old Goa- 403 402 held during 23-26th November, 2011: 80-83.



Year: 2012

1. Research Articles

- ❖ Azeez, S., Rajagopal, V., Jayarama Pai T, and Arunachalam, V. 2012. A comparison between the effects of coconut oil and other vegetable oils on human health with emphasis on heart disease. *Journal Plantation Crops* **40**(1): 16-22.
- ❖ Barbuddhe, S.B., Malik, S.V.S., Ashok Kumar, J., Kalorey, D.R., and Chakraborty, T. 2012. Epidemiology and management of listeriosis in India. *International Journal of Food Microbiology* **154**: 113-118.
- ❖ Chakurkar, E.B., Naik, P.K., Swain, B.K. and Singh, N.P. 2012. Performance of different breeds of piglets on starter diet in Goa. *Indian Veterinary Journal*, **89**: 85-86.
- ❖ Chavhan, S.K., Kalorey, D.R., Nagdive, A.A., Purohit, H.J., Barbuddhe, S.B., Kurkure, N.V. 2012. Molecular characterization of intercellular adhesion gene in *Staphylococcus aureus* isolated from bovine mastitic milk. *Trop Anim Health Prod.* **44**(2): 247-252.
- ❖ D'Costa, D., Bhosle, S.N., Dhuri, R.B. Kalekar, S., Rodrigues, J., Doijad, S.P. and Barbuddhe, S. B. 2012. The occurrence and characterization of *Listeria* species isolated from milk production chain. *Milchwissenschaft*, **67**: 43-46.
- ❖ Das, S. K. 2012. Study on the different factors affecting mortality pattern of rabbit in India. *Indian Journal of Animal Research*, **46** (1): 89-91.
- ❖ Das, S.K. and Baisya, S.K. 2012. Adoption Behavior of Improved Pig Production Technology in Meghalaya of India. *International Journal for Livestock Research*, **2** (2): 111- 121.
- ❖ Das, S.K. 2012. Adoption Behavior of Rabbit Production Technology in Meghalaya of India. *Indian Research Journal of Extension Education*, Special Issue, **V-1**, : 75-79
- ❖ Das, S.K. and Singh, N.P. 2012. Effect of microenvironmental changes on rabbit production. *Indian Research Journal of Extension Education*, Special Issue, **V- II** : 36-37.
- ❖ Firake, D.M., Behere, G.T., Firake, P.D., Azad Thakur, N.S. and Dubal, Z.B. 2012. An outbreak of pine lapper moth, *Kunugia latipennis* in mid-altitude hills of Maghalaya state, India. *J. Phytoparasitica*, DOI 10.1007/s12600-012-0228-2
- ❖ Manjunath, B.L., Verma, R.R., Ramesh, R. and Singh, N.P. 2012. Evaluation of varieties and local manorial sources for organic rice (*Oryza sativa*) production. *Indian Journal of Agronomy* **57** (3): 241-244.
- ❖ Mahesh, P., Gautam, R.D., Sudhida Gautam and Maruthadurai, R. 2012. Kairomones of *Earias vitella* (f.) and their influence on the parasitic potential of *Trichogramma* Spp (*Trichogrammatidae*: *Hymenoptera*). *Indian Journal of Entomology*, **74**(1): 47-53.



- ❖ Mohanta, K.N. and Subramanian, S., and Korikanthimath, V. S. 2012. Effect of dietary protein and lipid levels on growth, Nutrients utilization and whole body composition of blue gourami *Trichogaster trichopterus* fingerlings. *Journal of Animal Physiology and Animal Nutrition* (DOI: 10.1111/j.1439- 0396.2011.01258.x.).
- ❖ Mohanta, K.N. and Subramanian, S., and Korikanthimath, V. S. 2012. Replacement of fish meal protein by surumi by-product 2 in the diet of blue gourami *Trichogaster trichopterus* fingerlings. *Journal of Animal Physiology and Animal Nutrition* (DOI: 10.11.11/j.1439-0396.2011.01237.x.).
- ❖ Naik, P.K., Swain, B.K., Chakurkar, E.B. and Singh, N.P. 2012. Performance of dairy cows on green fodder maize based ration in coastal hot and humid climate. *Animal Nutrition and Feed Technology*, **12**: 265-270.
- ❖ Naik, P.K., Dhuri, R.B., Swain, B.K. and Singh, N.P. 2012. Nutrient changes with the growth of hydroponics fodder maize. *Indian Journal of Animal Nutrition*, **29**: 161-163.
- ❖ Naik, P.K. , Swain, B.K., Chakurkar, E.B. and Singh, N.P. 2012. Assessment of Potential Animal and Poultry Feed Resources in Goa. *Animal Nutrition & Feed Technology* **12**: 127-133.
- ❖ Naik P.K. , Swain, B.K., E.B. Chakurkar and N.P. Singh 2012. Effect of Combined Supplementation of Probiotic and Yeast on Growth, Carcass Characteristics and Economics of production in Broiler Chickens *Animal Nutrition & Feed Technology* Vol. 12 103-110
- ❖ Premkrishnan, B.V. and Arunachalam, V. 2012. In Silico RAPD Priming Sites in Expressed Sequences and iSCAR Markers for Oil Palm. *Comparative and Functional Genomics Hindawi Publishing Corporation*, Volume 2012, Article ID 913709, 5 pages doi:10.1155/2012/913709.
- ❖ Priya Devi, S., Balamohan, T. M., Thangam, M., Ashok Kumar, J., Ramachandrudu, K. and Korikanthimath, V.S. 2012. A study on diversity and distribution of kokum (*Garcinia indica* (Choisy) using DIVA_GIS in Goa with respect to fruit characters. *Indian J. Hort.*: **69** (2): 156-162
- ❖ Puro, K., Ahuja, A., Doley, S., Sanjukta, R., Dubal, Z.B., Ghatak, S., Shakuntala, I., Laha, R. and Sen, A. 2012. Molecular characterisation of turkeypoxvirus from recurring infection in Meghalaya. *Vet. Pract.* **13**(1): 49-51.
- ❖ Ramesh, R. and Phadke, G.S. 2012. Rhizosphere and endophytic bacteria for the suppression of eggplant wilt caused by *Ralstonia solanacearum*. *Crop Protection*, **37**: 35-41. DOI:10.1016/j.cropro.2012.02.008
- ❖ Shakuntala, I., Das, R.K., Sanjukta, R.K., Singh, P., Dubal, Z.B. and Kumar, S. 2012. PCR-based detection of *Streptococcus agalactiae* from milk of subclinical mastitis in Meghalaya. *Indian Journal of Animal Science* **82**(9).
- ❖ Shome, B.R., Bhuvana, M., Mitra, S. D., Krithiga, N., Shome, R., Velu, D., Banerjee, A., Barbuddhe, S.B., Prabhudas, K. and Rahman, H. 2012. Molecular characterization of *Streptococcus agalactiae* and *Streptococcus uberis* isolates from bovine milk. *Tropical Animal Health Production* **44**:1981-1992.



- ❖ Swain, B. K., Naik, P. K., Chakurkar, E. B. and Singh, N.P. 2012. Effect of feeding brewers' dried grain on the performance and carcass characteristics of Vanaraja chicks. *Journal of Applied Animal Research*, DOI:10.1080/09712119.2011.645036.
- ❖ Swain, B. K., Naik, P. K., Chakurkar, E. B. and Singh, N.P. 2012. Effect of combined supplementation of probiotic and Yeast on Growth, Carcass Characteristics and Economics of Production in Broiler Chickens. *Animal Nutrition & Feed Technology*, **12**: 103-110.

2. Paper Presented/ Conference Abstracts

- ❖ Achari, G. A., Ramesh, R. and Gaitonde, S. 2012. Diversity, antagonistic and growth promotion ability of xylem residing bacteria isolated from eggplant and chilli. Paper Presented during 16-19th June, 2012 at San Francisco, California USA.
- ❖ Arunachalam, V. 2012. Ornamental and tuberous sweet potato for climate change mitigation. "National Seminar on Indian Agriculture: Preparedness for climate change" poster presented on 24-25th March, 2012 held at NASC Complex Auditorium New Delhi.
- ❖ Arunachalam, V., Prem Krishnan, B.V., Paul, K. and Singh, N.P. 2012. Discovery of molecular markers in *Mangifera* sequences. Poster presented at *Global conference on Horticulture for Food Nutrition and Livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.
- ❖ Arunachalam, V., Jerard, B.A., Shaji, D., Apshara, S.E., Jayabose, C., Subaharan, K., Ravikumar, N. and Palaniswami, C. 2012. Plant traits associated with resistance to eriophyid mite (*Aceria guerreronis* Keifer) infestation in coconut (*Cocos nucifera* L.): Morphological, digital phenotyping and molecular markers. Poster presented at *XX Plantation crops symposium (Placrosym)* held during 12-15th December, 2012 at Coimbatore, Tamil Nadu.
- ❖ Barbuddhe, S.B. 2012. Overview of zoonotic infections. Presentation at Carmel College for Women, Nuvem, Goa on 3rd February, 2012.
- ❖ Barbuddhe, S.B. 2012. Emerging foodborne pathogens: an overview. Paper presented at Seminar on "*Emerging foodborne pathogens*" organized by St. Xaviers College, Mapusa during 9-10th February, 2012.
- ❖ Das, S.K, Karunakaran, M., Barbuddhe, S.B. and Singh, N.P. 2012. "Performances of dairy cows under improved housing and management". Presented in the poster session of *National Seminar on Indian Agriculture Preparedness for climate change* held at New Delhi during 24-25th March, 2012.
- ❖ Desai, A.R., Singh, N.P., and Naik, Anuradha 2012. IMTU/IPR activities of ICAR complex for Goa. A progress Report. Presented in Group meeting cum workshop of "*Intellectual property management and Transfer/ Commercialization of Agricultural technology scheme (Up-Scaling of existing Component i.e. Intellectual Property Right (IPR))*" held at CIRCOT, Mumbai during 13-14th January, 2012.



- ❖ Desai, A.R. and Singh, N.P. 2012. “Impact of weather changes on cashew in Goa” . Poster presented in the *National Seminar on Indian Agriculture Preparedness for Climate Change* held at New Delhi during 24-25th March, 2012.
- ❖ Desai, A.R., Kelkar, V.S. and Singh, N.P., 2012. Molecular diversity analysis in local genetic resources of nutmeg (*Myristica fragrans* Houtt). Presented in the *Global conference on horticulture for food, nutrition and livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.
- ❖ Desai, A.R., Bhawe, R.A. and Singh, N.P. 2012. Diversity analysis of cashew hybrids using RAPD marker. Presented in the *Global conference on horticulture for food, nutrition and livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.
- ❖ Desai, A.R. 2012. Strategic crop improvement in cashew: An overview on global status and future needs. Presented in *International Conference on Sustainable Cashew Production - Challenges and Opportunities* held during 11-12th October, 2012 at Goa.
- ❖ Dubal, Z.B., Madakini, R., Sanjukta, R., Puro, K., Shakuntala, I., Ghatak, S. and Sen, A. 2012. Detection of drug resistant and shiga toxin producing *Escherichia coli* Abstract published in *First International Conference on Bio-resource and stress management* held during 6- 7th February, 2013 at Kolkata.
- ❖ Dubal, Z.B., Mawlong, M., Susngi, B., Sanjukta, R., Puro, K., Ghatak, S., Sen, A., Shakuntala, I., Barbuddhe, S.B., Ahuja, A. and Bhattacharjee, U. 2012. Comparison of agarose gel electrophoresis and RNA-PAGE for rapid detection of rotavirus from fecal samples. Abstract published in *International Symposium on One Health: Way forward to challenges in Food Safety and Zoonoses in 21st Century* held during 13-14th December, 2012 at GADVASU, Ludhiana.
- ❖ Gaitonde, S. and Ramesh, R. 2012. Determining the diversity and management of *Ralstonia solanacearum* strains from Goa’. Symposium on *Role of microbes in Agriculture, Health and industry*, 26-27th March, 2012 held at Department of Biotechnology, Alagappa University, Karaikudi, TN. pp 42 (Abs).
- ❖ Gupta, M.J. and Priya Devi, S. 2012. Post Harvest Handling and Processing of Unexploited fruits Specific to Goa. Presented at *46th Annual Convention of Indian Society of Agricultural Engineers (ISAE) & International Grain Storage Symposium*, G.B. Pant University of Agriculture and Technology, Pantnagar, 27-29th February, 2012.
- ❖ Gupta, M.J. 2012. A Systems approach for postharvest handling and commercial processing of underutilized fruits of Goa. Paper presented at *National Workshop on Post Harvest Management and value addition of underutilized fruits*, CIPHET, Ludhiana, 20-21st March, 2012.
- ❖ Gupta, M.J. 2012. Protected Cultivation for Nutrition-Sensitive Climate Change Mitigation in India. Paper presented at *National Seminar on Indian Agriculture Preparedness for Climate change*, Indian Society for Agricultural Sciences, New Delhi, 24-25th March, 2012.



- ❖ Gupta, M.J. 2012. Comparative study of the microclimate under three protected cultivation structures under Goan climatic conditions. Presented in the *Global conference on horticulture for food, nutrition and livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.
- ❖ Gupta, M.J. 2012. Mechanization of plantation crops of Goa: Scope and Constraints. Presented at Poster presented at *XX Plantation crops symposium (Placrosym)* held during 12-15th December, 2012 at Coimbatore, Tamil Nadu.
- ❖ Manjunath, B.L. and Singh, N.P. 2012. Plantation crop based integrated farming system for coastal areas, In: *Sovenier cum abstract book of National Seminar on Technologies for Improving Productivity of Spices and Plantation Crops*, organized by Central Agricultural Research Institute, Port Blair during 27-28th February, 2012: 45-53.
- ❖ Manjunath, B.L. and Singh, N.P. 2012. System approach in agriculture for climate change mitigation, In: *Summaries of National Seminar on Indian Agriculture; Preparedness for Climate Change*, organized by Indian Society of Agricultural Sciences in New Delhi during 24-25th March, 2012:182-184.
- ❖ Manjunath, B.L. and Singh, N.P. 2012. Farming system options for different topographical situations of West coast region, In: *Extended summaries of 3rd International Agronomy Congress on Agriculture Diversification. Climate change and Livelihoods* held during 26-30th November, 2012 at New Delhi.
- ❖ Maruthadurai, R., Desai, A.R. and Singh, N.P. 2012. New report of pin-hole borer *Platypus parallelus* (F) infestation on cashew from Goa, India. Poster presented at *XX Plantation crops symposium (Placrosym)* held during 12-15th December, 2012 at Coimbatore, Tamil Nadu.
- ❖ Naik, P.K., Swain, B.K., Arunachalam, V. and Singh, N.P. 2012. Horticultural crops as potential livestock and poultry feeds in Goa. In: *Abstracts of Global conference on horticulture for food, nutrition and livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.
- ❖ Naik, P.K. 2012. Nutrient changes with the growth of hydroponics fodder maize. In: *Abstracts of International Conference on Agricultural and Horticultural Sciences on Scientific Principles and Contemporary Issues in Agriculture and Horticulture* held during 14-15th September, 2012 at Hyderabad.
- ❖ Naik, P.K., Dhuri, R.B. Swain, B.K. and Singh, N.P. 2012. Cost of production of hydroponics fodder maize. In: *Proceedings of 8th Biennial Animal Nutrition Association Conference on Animal Nutrition Research Strategies for Food Security* held during 28-30th November, 2012 at RAJUVAS, Bikaner.
- ❖ Priya Devi, S., Thangam, M., Ramachandrudu, K. and Singh, N.P. 2012. A review on *Garcinia indica* (Kokum): An under utilized horticultural crop for nutrition. In: *Abstracts of Global conference on horticulture for food, nutrition and livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.



- ❖ Priya Devi, S., Thangam, M. and Singh, N.P. 2012. Grading of kokum fruits based on fruit weight over the year and harvests. In abstract of 5th Indian Horticulture Congress held during 6-9th November, 2012 at PAU, Ludhiana.
- ❖ Priya Devi, S., Thangam, M. and Singh, N.P. 2012. Proportion of variable fruit size harvested in different years in Kokum Cv. Amrutha. In abstract of 5th Indian Horticulture Congress held during 6 – 9th November, 2012 at PAU, Ludhiana.
- ❖ Ramesh, R. and Singh, N.P. 2012. Bacterial wilt of vegetables caused by *Ralstonia solanacearum*: pathogen diversity, detection and disease management. Invited talk at winter school held on 22nd November, 2012 at IIVR, Varanasi.
- ❖ Ramesh, R., Achari, G. and Gaitonde, S. 2012. Improved detection of *Ralstonia solanacearum* by multiplex and BIO-PCR. In abstracts of National symposium on Blending conventional and modern plant pathology for sustainable agriculture held during 4-6th December, 2012 at IIHR, Bengaluru.
- ❖ Sanjukta, R.K., Mandakini, R.K., Ahuja, A., Puro, K., Dubal, Z.B., Ghatak, S., Shakuntala, I., Sen, A. 2012. Extended spectrum β -lactamases and antibiotic resistance integrons recovered from *Escherichia coli* isolates of swine in Northeast India. Paper presented in 22nd International Pig Veterinary Society Congress, held during 10-13th June, 2012 at Jeju, South Korea.
- ❖ Sanjukta, R., Mandakini, R.K., Ahuja, A., Sen, A., Shakuntala, I., Ghatak, S., Dubal, Z.B., Puro, A.K. and Ngachan, S.V. 2012. Molecular characterization of emerging multi-drug resistant *Escherichia coli* isolates of swine from Northeast India. Poster presented in 15th International Congress on Infectious Diseases held on 16th June, 2012 at Bangkok, Thailand.
- ❖ Singh, N.P. and Thangam, M. 2012. Potential aroids and their impact on livelihood security of marginal farmers in Goa. In Global conference on Aroids held during 23-25th January, 2012, CTCRI RC, Bhubaneswar.
- ❖ Singh, N.P. and Manjunath, B.L. 2012. Predominant Farming systems of West coast region of India, In: Extended summaries of 3rd International Agronomy Congress on Agriculture Diversification. Climate change and Livelihoods held during 26-30th November, 2012 at New Delhi.
- ❖ Subramanian S., Janhavi K., Tejaswini P., Anil F., Neelam K. and Korikanthimath V.S. 2012. Comparative studies on the fish catch by identical purse seine vessels in the Potential Fishing zone notified and Non notified areas off Goa coast. Abstract :38 p. Workshop on Coastal ocean colour : A perspective for satellite applications in the Indian ocean organized by INCOIS, Hyderabad, at Goa, on 19-21st March, 2012.
- ❖ Subramanian, S., Janhavi, K., Tejaswini, P., Anil, F., Neelam, K. and Singh, N.P. 2012. Studies on validation and application of Potential Fishing Zone (PFZ) forecast along the coast of Goa with specific reference to day of fishing distance from shore, species and shifting features. Abstract: 39 p. Workshop on Coastal ocean colour: A perspective for satellite applications in the Indian ocean, organized by INCOIS, Hyderabad, at Goa, on 19-21st March, 2012.



- ❖ Subramanian, S., Tejaswini, P., Janhavi, K., Anil, F., Neelam, K. and Singh, N.P. 2012. Studies on the length, weight, gut content, gonadal condition and proximate composition of Indian mackerel (*Rastrelliger kanagurta*) and Oil sardine (*Sardinella longiceps*) off Goa coast and their relevance to the condition of the fish in the context of Potential fishing zone forecast. Abstract: 53 p. *Workshop on Coastal ocean colour : A perspective for satellite applications in the Indian ocean*, organized by INCOIS, Hyderabad, at Goa, on 19-21st March, 2012.
- ❖ Subramanian, S. 2012. Studies on the application and advantage of potential fishing zone (PFZ) forecast and their refinement for different types of fishing activities along Goa coast (XII plan presentation). Coastal ocean colour: Paper presented at *A perspective for satellite applications in the Indian Ocean*. INCOIS, Hyderabad. 19-21st March, 2012 Goa.
- ❖ Swain, B.K., Naik, P.K. and Singh, N.P. 2012. Effect of feeding cashew apple waste replacing maize in the Vanaraja chicks. *International Conference on Sustainable cashew production-challenges and opportunities* held during 11-12th October, 2012 at Panjim, Goa.
- ❖ Swain, B.K., Naik, P.K. and Singh, N.P. 2012. Effect of feeding brewers' dried grains on the performance of Japanese quail layers. In: *Proceedings of 8th Biennial Animal Nutrition Association Conference on Animal Nutrition Research Strategies for Food Security* held during 28-30th November, 2012 at RAJUVAS, Bikaner.
- ❖ Swain, B.K., Parasar, A., Naik, P.K. and Singh, N.P. 2012. Effect of probiotics supplementation on broiler chickens. *XXIX annual Conference and National Symposium of Indian Poultry Science Association (IPSACON 2012) on Commercial and rural poultry production* held during 5-7th December, 2012. at Sri Venkateswara Veterinary University, Rajendranagar, Hyderabad,
- ❖ Thangam, M., Priya Devi, S., Safeena, S.A., Arunachalam, V. and Singh, N.P. 2012. Under utilized crops based crop diversification for emerging climate resilient horticulture. Presented as poster in *National seminar on Indian agriculture: preparedness for climate change* organized by Indian Society of Agricultural Science during 24-25th, March, 2012: 73-75.
- ❖ Thangam, M., Safeena, S.A., Ramachandrudu, K., Priya Devi, S. and Singh, N.P. 2012. Collection, conservation, evaluation and utilization of Heliconia: An exotic flower crops for new emerging market. In: *Abstracts of Global conference on horticulture for food, nutrition and livelihood options* held during 28-31st May, 2012 at OUAT, Bhubaneswar.
- ❖ Thangam, M., Ramesh, R., Priya Devi, S. and Singh, N.P. 2012. Screening of bacterial wilt resistant brinjal varieties and germplasm in acidic soils under coastal humid condition of Goa. In abstract of 5th *Indian Horticulture Congress* held during 6- 9th November, 2012 at PAU, Ludhiana.

Popular/ Technical Articles

- ❖ Das, S.K. 2012. Housing Requirement in dairy animals (Hindi). In Hindi magazine of Institute “*Pragya*”. Published by Director , ICAR- RC for Goa, Ela, Goa: 31-33.



- ❖ Dubal, Z.B., Khan, M.H., Ghatak, S., Puro, K. and Sanjukta, R.K. 2012. Emerging and re-emerging bacterial zoonotic diseases in India. General article submitted to *International Journal of Bio-resource and Stress Management*.
- ❖ Dubal, Z.B. and Das, S. 2012. Yak milk and milk products. General article submitted to Pashudhan.
- ❖ Dubal, Z.B., Khan, M.H. and Dubal, P.B. 2012. Bacterial and viral zoonotic diseases of yak. General article submitted to *International Journal of Bio Resource and Stress management*.
- ❖ Khan, M.H., Suresh Kumar, Kadirvel, G., Basumatary, R., Bharti, P.K. and Dubal, Z.B. 2012. Livelihood improvement of small and marginal farmers through integrated approach of broiler rabbit production in North-East India. *International Journal of Bio-resource and stress management*. **3**(3): 419-423.
- ❖ Naik, P.K. and Dhuri, R.B. 2012. Mechanization of green fodder production by hydroponics technology. *Technology Inventory on Agricultural Mechanization for Goa (Workshop cum Exhibition on Agricultural Mechanization for Small and Marginal Farmers of Goa* during 11-12th September, 2012 ICAR Research Complex for Goa, Old Goa :30-32.
- ❖ Naik, P.K. 2012. Aadhik utpadan hetu dudharu pashuon ka saantuleet ahar. *Pragnya, Pratham Aank*. ICAR Research Complex for Goa, Old Goa: 39-43.
- ❖ Naik, P.K. 2012. Hydroponics technology for fodder production. *ICAR News*, **18** (3): 4.
- ❖ Karunakaran, M., Chakurkar, E.B., Naik, P.K. and Das, S.K. 2012. Mechanization of dairy farming. In the *Souvenir Technology Inventory on Agricultural Mechanization of Goa*. Published by Director , ICAR - RC for Goa, Ela, Goa: 26-29.
- ❖ Karunakaran, M., Chakurkar, E.B., Naik, P.K. and Singh, N.P. 2012. Pragnya, Fertility of breeding bull. ICAR Research Complex for Goa, Old Goa: 44 – 45.
- ❖ Ramesh, R. 2012. Entrepreneurship development in biocontrol and bio-formulations. In: *Interactive session on “Human resource development and opportunities in agriculture and allied sectors”* held on 23rd October, 2012 at ICAR Research Complex for Goa, Old Goa, Goa: 26-30.
- ❖ Singh, N.P. and Singh, A.L. 2012. Moongphali ki Kheti uttarpurvi parvatiya kshetro me la sakti hai tel kranti. In: Annual Hindi Patrika- *PRAGYA*- ICAR Research Complex for Goa. (Hindi):1-5.
- ❖ Singh, N.P., Karunakaran, M., Chakurkar, E.B. and Naik, P.K. 2012. Sand ki Prajanan Kshamata. In: Annual Hindi Patrika *PRAGYA*. ICAR Research Complex for Goa. (Hindi): 44-45.
- ❖ Swain, B.K., Naik, P.K. and Chakurkar, E.B. 2012. Role of probiotics, probiotics and synbiotics in poultry production. *Poultry Line*, **12** (4): 61-65.



- ❖ Swain, B.K. 2012. Importance of duck farming as an alternative poultry farming in coastal climate. *Poultry Line* **12** (6):29-33.
- ❖ Priya Devi, S. 2012. Mechanisation in processing of minor fruits of Goa. In *Technology inventory on Agricultural Mechanization for Goa*. Gupta, M.J., Thangam, M., Priya Devi, S. and Singh, N.P. (Eds.). Published in *Workshop cum exhibition on Agricultural Mechanization for small and Marginal farmers of Goa* held during 11- 12th September, 2012 at ICAR (RC), Goa.
- ❖ Thangam, M. 2012. Mechanization in vegetable crops for better profitability. In *Technology inventory on Agricultural Mechanization for Goa*. In *Technology inventory on Agricultural Mechanization for Goa*. Gupta, M.J., Thangam, M., Priya Devi, S. and Singh, N.P. (Eds.). Published in *Workshop cum exhibition on Agricultural Mechanization for small and Marginal farmers of Goa* held during 11 – 12th September, 2012 at ICAR (RC), Goa: 21-23.
- ❖ Verma, R. R; Manjunath, B.L. and Singh, N.P. 2012. Lecture notes. *National seminar on coirpith composting and use of geotextiles*. ICAR Research Complex for Goa, Goa India, on 17th March, 2012.

4. Book Chapters/ Books / Compendia

- ❖ Arunachalam, V. 2012. Genomics of cultivated palms. Elsevier Insights: 123 Pp.
- ❖ Barbuddhe, S.B., Desai, A.R., Doijad, S.P. and Singh, N.P. 2012. Diversity of microflora isolated from cashew kernels and fermented cashew apple juice and its industrial applications. In: *Research Advances in Cashew Production and Management Techniques*, Desai A.R. and Singh, N.P. (Eds), New India Publishing Agency, New Delhi: 211-220.
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2. Paper Presented/ Conference Abstracts

- ❖ Achari, G.A. and Ramesh, R. 2013. Xylem bacteria for the plant growth promotion and pathogen inhibition in brinjal. In: 10th *National symposium on biotechnological approaches for plant protection: constraints and opportunities* held during 27-29th January, 2013 at ICAR Research Complex for Goa, Old Goa, Goa.
- ❖ Achari, G.A., Ramesh, R. and Singh, N.P. 2013. Do food crops harbour human pathogens? A preliminary study. *International Symposium on "Problems of Listeriosis" (ISOPOL XVIII)* held during 19- 22nd, September 2013 at Marriot Resorts, Goa India: 235-236.
- ❖ Arunachalam, V., Swapnaja, D., Vaingankar, J.D., Sapna, H., Maruthadurai, R. and Singh, N.P. 2013. Evaluation of Goan germplasm accessions of Amaranthus (*Amaranthus tricolor* L.) for insect, nematode and disease incidence and yield & color traits. Lead lecture delivered at 10th *National Symposium on Biotechnological approaches for plant protection: Constraints and opportunities* held during 27-29th January, 2013 at ICAR Research Complex for Goa, Old Goa, Goa
- ❖ Arunachalam, V., Anusha Kumari, G.Y., Namitha, C., Sinla, S., Amrutha Sindhu, Manju, K.P. and Reji, J.T. 2013. Genetic markers associated with root (wilt) resistance in coconut. Lead lecture delivered at 10th *National Symposium on Biotechnological approaches for plant protection: Constraints and opportunities* held during 27-29th January, 2013 at ICAR Research Complex for Goa, Old Goa, Goa.
- ❖ Barbuddhe, S.B. 2013. Environmental change linked to emergence of zoonotic infections. *World Zoonoses Day* held on 6th July, 2013 at ICAR Research Complex for Goa, Old Goa.
- ❖ Barbuddhe, S.B., Malik, S., Kalorey, D. and Chakraborty, T. 2013. *Listeria* research in Indian subcontinent. *XVIII International Symposium on Problems of Listeriosis (ISOPOL XVIII)* held during 19- 22nd September, 2013 at ICAR Research Complex for Goa, India.



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- ❖ Barbuddhe, S.B., Kalorey, D.R., Rawool, D.B., Doijad, S.P., Kurkure, V.N., Poharkar, K., Warke, S., Kalekar, S., Raorane, A., D'costa, D., Karunakaran, M., Rodrigues, S., Torsten Hain R., Kolte, P., I. Shakuntala, Malik, S.V.S., Singh, N.P. and Chakraborty, T. 2013. Serotypes and Pulsotypes of *Listeria monocytogenes* isolated from humans in India (2005–2013). Abstract presented in the *Eighteenth International Symposium on Problems of Listeriosis (ISOPOL 2013)* held during 19–22nd Sep, 2013 at Mariott Goa.
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- ❖ Desai, A.R. and Singh, N.P. 2013. Genetic resources of nutmeg of Goa and their characterization for morphometric variation. Presented in *National Seminar on Production, productivity and Quality of Spices* held during 2-3rd February, 2013 at Ajmer.
- ❖ Desai, A.R., Bhawe, R.A. and Singh, N.P. 2013. Cashew (*Anacardium occidentale* L.) hybrids and their molecular diversity using RAPD Marker. Presented in the *National Symposium on Cashew: Challenges and Opportunities for cashew Promotion India* held at Shimoga, Karnataka by the University of Agricultural and Horticultural Sciences, Shimoga, during 28-30rd October, 2013
- ❖ Desai, A.R., Singh, N.P. and Korikanthimath, V.S. 2013. Promising Cashew (*Anacardium occidentale* L) selections from coastal state of Goa. Presented in the *National Symposium on Cashew: Challenges and Opportunities for cashew Promotion India* held at Shimoga, Karnataka by the University of Agricultural and Horticultural Sciences, Shimoga, during 28-30rd October, 2013.
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3.Popular / Technical Articles

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- ❖ Ramesh, R. and Maruthadurai, R. 2014. Manual on diagnosis of insect pests and diseases of plantation and spice crops of Goa. ICAR-RC for Goa: 58pp.
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- ❖ Singh, N.P., Manjunath, B.L. and Subramanian, S. 2014 Integrated Farming Systems for sustainability of Agricultural Production in Goa. In Book: *Research in Farming System* Edited by Dr. B. Gangawar et. al.: 551-584.

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