



हकृवुडु & jk"Vh; eRL; vkuoF' kd l d k/ku C; yj ks
fnydq kk] rsyhckx] y[kuÅ & 226 002 %m0ç0%

ICAR-National Bureau of Fish Genetic Resources

Dilkusha, Telibagh, Lucknow – 226 028



ISO 9001:2008

Name : **Dr. Sharad Kumar Singh**

Designation : Principal Scientist (Fish & Fisheries Science)
(Since 25 August, 2014)

Date of birth : 22/05/1965

Professional experience : 29 years

Qualification : M.Sc. (Zoology with Fishery biology)
Ph.D. (Zoology with Fisheries)

Current area of Scientific Work : Fisheries & Aquaculture Research, Extension and Human Resource Development

Area of Research

Expertise : Aquaculture and fisheries.

Awards/ Recognitions :

- Associated with Ground Water Augmentation National **Award of MoWR (GoI)**, confirmed upon CSSRI, Karnal on dated 22nd March, 2011 at New Delhi in the Category: FPARP on enhancing ground water recharge and water productivity in North-West India as one of the team member.
- Earn Royalty due to Commercialization of FRP Carp Hatchery.
- Associated with **Best Poster Presentation Award/First Prize Certificate** in 11th International Conference on Plasticulture and Precision Farming Nov. 17-21, 2005 New Delhi.
- Received the **Best Paper Presentation Award** during the National Meet on Capture and Culture Fisheries held at CIFT Regional Station, Vishakhapatnam (AP) on 10 Sept., 2004.
- Awarded Second Prize for Investigation of Specific Problem i.e. Effect of Some Stressors on Some Stress- Sensitive Physiological Parameters of *Labeo rohita* during Summer School (15 July -14 August, 2000 at CIFRI, Barrackpore.
- Associated with **Best Poster Presentation Award** in 4th Agricultural Science Congress, Jaipur, Rajasthan, 21-24 Feb 99 conferred by NASS, New Delhi.



Publication (no.) etc.

- Research papers** : **25**
- Reviews** : **03**
- Books/Booklet** : **12**
- Book Chapters** : **30**
- Popular articles** : **27**
- Others** : **90+**
- Radio Talk/T.V. Shows:** **08/09**
- Training/Extension Programme Organized :** **150+**
- Google Scholar Citation:**

Citation indices	All	Since 2011
Citations	146	103
h-index	6	6
i10-index	4	3

Important Research Publications

- Chandra Suresh, S. K. Singh, S. Dasgupta and S. K. Sahoo, 2015.
Mass specific oxygen uptake in the freshwater catfish *Wallago attu* (Bloch & Schneider, 1801).
Indian J. Fish. 62 (3), 137-140.
- Bhaskar Narjary, Satyendra Kumar, S. K. Kamra, Ranbir Singh, S. K. Singh, D. K. Sharma, 2015.
Farmer Participatory Appraisal of Laser Land Leveling to Improve Water Productivity. *Indian Farming* 64 (11), 5-7.
- Singh Sharad K., Ranbir Singh, S. Kumar, Bhaskar Narjary, S. K. Kamra, D. K. Sharma, 2014.
Productive Utilization of Sodic Water for Aquaculture - led Integrated Farming System: A Case Study. *Journal of Soil Salinity and Water Quality* (ISSN 0976-0806) 6 (1), 28-35.
- Singh SK, 2014.
Alternative fish based farming cases for enhancement of poor quality land and water productivity. E-Book on Advanced Technology in land and water remediation and management, Pp10.
- Singh SK, 2014.
Aquaculture for salt affected soils and poor quality water. Diagnosis, assessment and management of salt affected soils and poor quality waters to improve productivity and livelihood security. In: *Diagnosis, assessment and management of salt affected soils and poor quality waters to improve productivity and livelihood security* edited by Mandal, A. K., Singh, S. K., Thimmappa, K., Datta, A. and Sharma, D. K., CSSRI, Karnal, India, 253p.
- Mandal AK, S. K. Singh, K. Thimmappa, A. Datta, D. K. Sharma, 2014.
Diagnosis, assessment and management of salt affected soils and poor quality waters to improve productivity and livelihood security. CSSRI, Karnal, India.
- Singh SK, 2013.
Poor quality water use in aquaculture. Sustainable Management of poor quality of water in agriculture. In: the book edited by Yadav, R. K., Jat, H. S., Satendra, K., Thimappa, Meena R L., Mishra, A. K. and Sharma, D. K., 207p.
- Singh SK, 2013.
Productive utilization of salt affected soil and water for aquaculture- An innovative approach. Technological innovations for shaping future agriculture in salt affected areas. In: the book *Technological innovations for shaping future agriculture in salt affected areas* edited by Chaudhari, S. K., Parveen Kumar, Sharad Kumar Singh and K. Thimmappa, CSSRI, Karnal, India, 320p.
- Chaudhari SK, Parveen Kumar, Sharad Kumar Singh, K. Thimmappa, 2013
Technological innovations for shaping future agriculture in salt affected areas. CSSRI, Karnal, India.
- Singh SK, 2012.
Integrated Fish Farming System with Special Reference to Reclaimed Alkali Soils. Management of Salt Affected Soils and Water for Sustainable Agriculture. In: the book *CSSRI, Karnal, India*, 112-115.
- Jat H. S., Gurbachan Singh, R. S. Pandey, P. C. Sharma, N. P. S. Yaduvanshi, S. K. Singh, R. Raju, R. K. Yadav, S. K. Chaudhari, D. K. Sharma, 2012.
Multi-enterprise model under small farm holdings for enhancing resources use efficiency and sustaining livelihood. In: the book *Resource conservation technologies for seed spices* edited by Ravindra Singh, Gopal Lal, R. S. Mehta, Sharad Choudhary and Balraj Singh. NRCSS, Tabiji, Ajmer

- Singh SK, 2012.
Studies on different mode of aquaculture operation under three different ageing pond fish culture trails of sodic land. *International Journal of Tropical Agriculture* 30 (3-4), 117-120.
- Singh SK, 2011.
Integrated Fish Farming System with Special Reference to Reclaimed Alkali Soils. Training Compendium on Reclamation and Management of Salt Affected Soils for Senior Deputy Managers/Deputy Managers of Uttar Pradesh Bhumi Sudhar Nigam, Lucknow. Division of Technology Evaluation and Transfer, CSSRI, Karnal- 132 001 (India)
- Singh SK. 2011.
Role of Aquaculture in Management of Poor Quality of Water. Managing of Poor Quality Water for Sustaining Agriculture. In: the book CSSRI, Karnal, India, 216p, 203-208.
- Singh SK, 2011.
Integrated Fish Farming in Reclaimed Alkali Soils. In book entitled Diagnostics, Remediation and Use of Poor Quality Waters in Crop Production (224 p). Edited by Meena, R. L., Gupta, S. K., Yadav, R. K. and Sharma, D. K. CSSRI, Karnal.
- Aravindakshan PK, SK Singh, Bikash Sarkar, D Majhi, JK Jena, KC Pani, HK Muduli, S Ayyappan, BC Mohapatra, N Sarangi, 2011.
Oxygen consumption of carps during live transportation. *Indian Journal of Fisheries* 58 (4), 67-70.
- Mohapatra BC, B Sarkar, SK Singh, D Majhi, KK Sharma, 2011.
Polyhouse ponds for fish rearing. In book entitled Application Application of plastics in aquaculture published by Director CIFA, Bhubaneshwar: 55-69.
- Mohapatra BC, B Sarkar, SK Singh, D Majhi, KK Sharma, 2011.
Fish feeders. In book entitled Application Application of plastics in aquaculture, published by Director CIFA, Bhubaneshwar:70-80.
- Mohapatra BC, B Sarkar, SK Singh, D Majhi, N Sarangi, 2011.
Portable FRP carp hatchery. In book entitled Application of plastics in aquaculture published by Director CIFA, Bhubaneshwar: 32-42.
- Mohapatra BC, B Sarkar, SK Singh, D Majhi, D Swain, BK Das, 2011.
Fish rearing in FRP Silo. In book entitled Application of plastics in aquaculture, published by Director CIFA, Bhubaneshwar:43-44.
- Aravindakshan PK, S. K. Singh, Bikash Sarkar, D. Majhi, B. C. Mohapatra, 2011.
Live fish transportation system. In book entitled Application of plastics in aquaculture, published by Director CIFA, Bhubaneshwar:81-88.
- Singh SK, 2010.
Fishery vis-a-vis Aquaculture Management in Saline Environments. In book entitled Advances in Reclamation and Management of Salt Affected Soils. CSSRI, Karnal: 08p.
- Singh SK, 2010.
Aquaculture in Agriculturally Poor Quality of Water : An Integral Part of Natural Resource Management. In book entitled Waste Water Management and Use of Poor Quality Water in

Agriculture for International Training Manual for AARDO member countries. CSSRI, Karnal, India:58-68.

Singh SK, 2009.

Nutritional and food security for rural poor through multi commodity production from a lake of eastern Uttar Pradesh. *Aquaculture Asia* 14 (1), 23-25.

Bandyopadhyay MK, S.K.Singh, 2009.

Pheromone-A probable biostimulent for sympathetic spawning of the Indian Major Carps. In book entitled *Recent Advances in Hormonal Physiology of Fish and Shellfish Reproduction*. Narendra PUBLISHING House, New Delhi (ISBN numbering book): 261-264.

Singh SK, 2009.

An account of fishing methods, gears and crafts of Leond Tal,UP,India. *Science India* 12 (9), 15-23.

Singh SK, 2009.

Hydrobiology and sustainable fisheries management of natural aquatic resource Leond Tal: A scientific study. *Bhartiya Krishi Anusandhan Patrika* 24 (1), 51-55.

Swain SK, S. K. Singh, P. Routray, N. K. Barik, 2008.

Indigenous Ornamental Fishes: Status, Issues and Strategies for Propagation and Conservation. *e-planet* 6 (2), 20-26.

Swain SK, S. K. Singh, 2008.

Breeding of Goldfish: An Ideal Strategy. In compendium book on *Ornamental Fish Breeding and Culture for Income Generation* (Pp97). CIFA, Bhubaneshwar- 751 002, India.

Swain SK, S. K. Singh, 2008.

Breeding of Ornamental Fish with Special Reference to Live Bearer Species. In compendium book on *Ornamental Fish Breeding and Culture for Income Generation* (Pp 97). CIFA, Bhubaneshwar- 751 002, India.

Swain SK, G.S. Saha, S.K.Singh, 2008.

Ornamental Fish Breeding and Culture for Income Generation. Published by Director CIFA Kausalyaganga, Bhubaneswar (97p).

Singh SK, Sushil Kumar, 2008.

Problems and Prospectus of Aquaculture in Saline Environments. In book entitled *Diagnosis and Management of Poor Quality Water and Salt Affected Soils*. CSSRI, Karnal, India:280-284.

Mohapatra BC, S.K. Singh, Bikash Sarkar, Dukhia Majhi. N. Sarangi, 2007.

Observation of carp polyculture with giant freshwater prawn in solar heated fish pond. *Journal of Fisheries and Aquatic Sciences*. (ISSN: 1816-4927) 2 (2), 149-155.

Sarkar B, BC Mohapatra, SK Singh, D Majhi, N Sarangi, GN Tiwari, 2007.

Impact on energy consumption in greenhouse fish production. *Asian Journal of Agricultural Research* (ISSN: 1819-1894) 1 (2), 74-79.

Singh S.K., Bikash Sarkar, M.K. Bandyopadhyay, D. Majhi, B.C. Mohapatra, N. Sarangi, 2007.

Greenhouse pond: An experimental study for increasing fish production. *Proc. 3rd International Conference on Solar Radiation and Day Lighting (SOLARIS)*. Anamaya Publishers, New Delhi, India:274-278.

- Biswas G, JK Jena, SK Singh, HK Muduli, 2006.
Effect of feeding frequency on growth, survival and feed utilization in fingerlings of *Catla catla* (Hamilton), *Labeo rohita* (Hamilton) and *Cirrhinus mrigala* (Hamilton) in outdoor rearing systems. *Aquaculture Research* 37 (5), 510-514.
- Jena JK, S. K. Singh, 2006.
Carp Culture in India: Practices and Prospects. *Compendium on Recent Advances in Freshwater Aquaculture* (Pp 59), 7-13.
- Singh SK, 2006.
Breeding of Common Carp. *Compendium on Recent Advances in Freshwater Aquaculture* (Pp 59), 1-6.
- Mohapatra BC, Singh S.K., Sarkar B., N. Sarangi, 2005.
Portable FRP carp hatchery; An aid for rural aquaculture. *Proceeding of International conference on plasticulture and precision*.
- Das PC, S Ayyappan, JK Jena, SK Singh, P Patamajhi, HK Muduli, 2004
Effect of aeration on production and water quality changes in intensive carp culture. *Indian Journal of Fisheries* 51 (2), 173-183.
- Mohapatra BC, S. K. Singh, 2004.
Application of Plastics and Eco-Friendly Environment. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 68-70.
- Singh SK, B. Sarkar, D. Majhi, 2004.
Fish Rearing in Indoor and Outdoor Plasticware Systems. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 53-62.
- Singh SK, B. Sarkar, D. Majhi, B. C. Mohapatra, 2004.
Portable FRP Carp Hatchery for Carp Seed Production. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 50-52.
- Singh SK, B. Sarkar, D. Majhi, 2004.
FRP Live Fish Transportation Tank- An Aid to Freshwater Aquaculture. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 46-49.
- Mohapatra BC, S. K. Singh, B. Sarkar, D. Majhi, 2004.
Aquaculture in Polyhouse Ponds. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 36-45.
- Sarkar B, S. K. Singh, B. C. Mohapatra, 2004.
Development of Demand/Automatic Fish Feeder/Dispenser for Future Indian Aquaculture. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 29-35.
- Mohapatra, BC., S. K. Singh, B. Sarkar, 2004.
Culture of Indian Major Carps in Soils/Vertical-Tier System: A New Dimension in Aquaculture. *Compendium of Lectures on Application of Plastics in Aquaculture* (Pp 70), 26-28.
- Mohapatra BC, S. K. Singh, B. Sarkar, 2004.

Plasticulture Intervention in Aquaculture Development. Compendium of Lectures on Application of Plastics in Aquaculture (Pp 70), 10-18.

Mohapatra BC, S.K.Singh, Bikas Sarkar, D. Majhi, 2004

Portable Carp Hatchery for Carp Seed Production. Technologies on Live stock and Fisheries for Poverty Alleviation in SAARC.

Mohapatra BC, SK Singh, 2004.

Manual on Application Of Plastics In Aquaculture. Published by Director CIFA Kausalyaganga, Bhubaneswar (70p).

Singh SK, 2003.

Freshwater Prawn Culture. In Compendium book entitled Advance Aquaculture Techniques. Officer Incharge RRC, CIFA, Kalyani, West Bangal on behalf of Directors, CIFA, Bhubaneshwar, India.

Singh SK, 2003.

Integrated Fish Culture (II): Fish Livestock Integration. In Compendium book entitled Advance Aquaculture Techniques. Officer Incharge RRC, CIFA, Kalyani, West Bangal on behalf of Directors, CIFA, Bhubaneshwar, India.

Singh SK, 2003.

Integrated Fish Culture (I): Agri-Aquaculture. In Compendium book entitled Advance Aquaculture Techniques. Officer Incharge RRC, CIFA, Kalyani, West Bangal on behalf of Directors, CIFA, Bhubaneshwar, India.

Singh SK, 2003.

Composite Fish Culture. In Compendium book entitled Advance Aquaculture Techniques. Officer Incharge RRC, CIFA, Kalyani, West Bangal on behalf of Directors, CIFA, Bhubaneshwar, India.

Singh SK, 2003.

Management of Stocking Ponds. In Compendium book entitled Advance Aquaculture Techniques. Officer Incharge RRC, CIFA, Kalyani, West Bangal on behalf of Directors, CIFA, Bhubaneshwar, India.

Singh SK, 2003.

Site Selection and Construction of Ponds. In Compendium book entitled Advance Aquaculture Techniques. Officer Incharge RRC, CIFA, Kalyani, West Bangal on behalf of Directors, CIFA, Bhubaneshwar, India.

Mohapatra BC, B. Sarkar, S. K. Singh, 2003.

Use of Plastics in Aquaculture. Plasticulture Intervention for Agriculture Development in North Eastern.

Biswas G, JK Jena, SK Singh, P Patmajhi, HK Muduli, 2002.

Effect of feeding frequency on growth, survival and feed utilization in mrigal, *Cirrhinus mrigala*, and rohu, *Labeo rohita*, during nursery rearing. *Aquaculture* 254 (1), 211-218

Jena J K, S Ayyappan, PK Aravindakshan, B Dash, SK Singh, HK Muduli, 2002.

Evaluation of production performance in carp polyculture with different stocking densities and species combinations. *Journal of Applied Ichthyology* 18 (3), 165-171

Mohapatra B.C., S. K. Singh, Bikash Sarkar, D. Majhi, C. Moharathi, K.C. Pani, 2002.

Common carp, *Cyprinus carpio* (L) seed rearing in polyhouse pond environment during low temperature periods. *J. Aqua.* 10, 37-41.

Singh SK, H. K. Muduli, 2002.

Methods of Common Carp Breeding. In compendium of Lectures on Freshwater Aquaculture. CIFA, Bhubaneswar- 751 002, India: 14-18.

Singh SK, 2001.

Culture of Carp in Cages and Pens. In compendium of Lectures on Carp Seed Rearing and Culture, CIFA, Bhubaneswar- 751 002, India: 35-41.

Ayyappan S, J.K. Jena, P. K Aravinadakashan, H.K. Muduli, S.K.Singh, 2000.

Puntius gonionotus (Bleeker)- A Potential Candidate Species for Large Scale Culture in North East India. *Fish bio diversity of North East India* 2, 126-127.

Rao GRM, S. K. Singh, A.K. Sahu, 2000.

Fry and fingerling production of *Clarias batrachus* (LINNAEUS). *Asian J. Zool. Science* (ISSN: 0971-2224), 57-60.

Singh SK, 2000.

Studies on hydro-biology and Fisheries of Leond Tal of District Siddharthnagar, UP with special reference to the Development of Aquaculture in the Lake (Tal). Dr. R.M.L. Avadh University, Faizabad, UP, India, Summary Report: 09p.

Singh SK, 2000.

Studies on hydro-biology and Fisheries of Leond Tal of District Siddharthnagar, UP with special reference to the Development of Aquaculture in the Lake (Tal). Dr. R.M.L. Avadh University, Faizabad, UP, India, PhD. Thesis: 262p.

Bandyopadhyay MK, S. K. Singh, 1999.

Earthen spawning pool - an efficient and economics system for large scale breeding of Indian major carps. *Indian farming* 49 (5), 17-19.

Routray P, S. K. Singh, 1997.

Carp Culture in Pens - A New Perspective. In book entitled *Carp Culture - Practices and Potentials* (Pp 68) CIFA, Bhubaneswar- 751 002, India: 59-62.

Dasgupta S, Suresh Chandra, S. K. Singh, 1991.

Preliminary observation on the gonadal maturity and fecundity of *Wallago attu* (Bloch and Schn.) Bhubaneswar. *Proc. Nat. Symp. Freshwat. Aqua.* (ASFA/ International Abstracting). Association of Aquaculturists and CIFA, Bhubneswar-751 002, India: 238-240.

Rao GRM, A.K. Sahu, S. K. Singh, 1991.

Advancement of ovarian maturation and multiple spawning in *Clarias batrachus* (L). *Proc. Nat. Symp. Freshwat. Aqua* (ASFA/ International Abstracting), 1-3.

Bandyopadhyay M K, S. K. Singh, B. Sarkar, 1991.

Growth and production of *Ctenopharyrodon idella* reared in the plastic cages. *Proc. Nat. Symp. Freshwater. Aqua* (ASFA/ International Abstracting), 35-37

Bandyopadhyay, M. .K., Appaji Chari and S. K. Singh, 1991.

Spawning of Indian major carps in polluted water an interesting observation. Proc. Nat. Symp. Freshwat. Aqua. (ASFA/ International Abstracting). Association of Aquaculturists and CIFA, Bhubneshwar-751 002, India: 57-58.

Bandyopadhyay MK, S. K. Singh, B. Sarkar, 1989.

Plastics in aquaculture (Article). National Seminar on forty years of freshwater aquaculture published by Association of Aquaculturists and CIFA, Bhubaneshwar-751 002, India, Souvenir: 03p.

Bandyopadhyay MK, S. K. Singh, 1989.

Induced spawning of Indian major carps with H.C.G. plus pituitary gland mixture in the earthen spawning pool. Proc. Nat. Sem. Freshwat. Aqua (ASFA/ International Abstracting). Association of Aquaculturists and CIFA, Bhubneshwar-751 002, India: 8-9.