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Institute/ University	Central Institute of Freshwater Aquaculture (<i>Indian Council of Agricultural Research</i>)
Address	Central Institute of Freshwater Aquaculture (CIFA) Kausalyaganga, Bhubaneswar, Orissa, INDIA
Date of Birth	25 July 1971
Sex	Male
Tel	+91+674 2465446, 2465421, 2465890
Fax	+91 +674 2465407
Language known	Bengali, English, Hindi & Oriya.
Computer literacy	Windows MS Office, Photoshop, SPSS etc.

Educational Qualifications

Degree/ Course	Name of the University/ Institute	Year	Major subject	Marks/ Class/ Rank
Bachelor's Degree (B.Sc.)	Visva Bharati, Santiniketan, India	1992	Agriculture	68.2% First Class
Master's Degree (M.Sc.)	National Dairy Research Institute, Karnal, India	1994	Extension Education	73.2% First class
Doctorate (Ph.D.)	Indian Agricultural Research Institute, New Delhi, India	1998	Agricultural Extension	3.82 out of 4.00

Details of employment record			
Employer/Institution	Designation & Place of work	Period	Scale of pay
ICAR, New Delhi. Central Institute of Freshwater Aquaculture (CIFA)	Scientist	Jan 1998 to Dec 2001	Rs. 8000-275-13500
ICAR, New Delhi. Central Institute of Freshwater Aquaculture (CIFA)	Scientist (Senior Scale)	Jan 2002 to Dec 2006	Rs. 10000-325-15200
ICAR, New Delhi. Central Institute of Freshwater Aquaculture (CIFA)	Senior Scientist	Jan 2007 to Dec 2009	Rs. 12000-420-18300
ICAR, New Delhi. Central Institute of Freshwater Aquaculture (CIFA)	Senior Scientist	Jan 2010 till date	Rs. 37400-67000
Research Experience			
1.	M.Sc	Dissertation topic entitled 'Identification and assessment of indigenous technologies in Bankura district (W.B.)'- documented indigenous technologies and explored farmers' as well as scientists' rationale.	
2.	Doctoral	'Joint forest management for sustainable development'. Studied the historical profile of JFM; motivational pattern of villagers and development orientation of forest department officials. Impacts of JFM in terms of socio-economic and institutional changes are also assessed.	
Institutional research		<ul style="list-style-type: none"> ➤ Selected for the Agricultural Research Service (ARS) to work as Scientist at the Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar from January 1998. ➤ 1998-2002: Studied the Knowledge and adoption of semi-intensive carp culture in Puri and Khurda districts (Co-PI) ➤ 2002-05 Community based fisheries in India – an evaluation (PI) ➤ 2005-07 Institutional arrangements and linkage mechanisms for freshwater aquaculture development in Orissa (PI) ➤ 2007-2010 Impact of training programmes on freshwater aquaculture conducted by CIFA ➤ 2009--till date: Aquaculture in changing climate–A study based on the perceptions of Freshwater aqua culturists. 	

<p>Sponsored project research</p>	<ul style="list-style-type: none"> ➤ 2000-04: PI of a project entitled “Agricultural Technology Information Centre funded by NATP. ➤ 2000-03: Jai Vigyan National Science and Technology Mission for household food and nutrition security. ➤ 2001-2004: Management of coastal agroecosystem affected by super cyclone. ➤ 2006-08: Impact assessment of fisheries research in India (Co-PI) funded by APcess ➤ 2006-09: Economic and livelihood development of SC, ST population through aquaculture technologies (Co-PI) funded by DBT ➤ 2009: Scaling up aquaculture in WORLP districts funded by NR International. ➤ 2008-2012: Sustainable livelihood improvement through integrated freshwater aquaculture, horticulture and livestock development in Mayurbhanj, Keonjhar and Sambalpur districts of Odisha (Component-3 of NAIP) ➤ 2009-2012: Carp seed production in mobile hatchery and rearing for livelihood development for SC/ST communities in selected districts of Odisha.funded by DBT ➤ 2009-12: Transfer of technology of composite carp culture through demonstration among SC/ST women in Boudh and Purulia district. Funded by DST
<p>Teaching/ Guidance/ Paper setting & evaluation</p>	<p>B.F.Sc, M.F.Sc and Ph. D question papers setter & evaluator for CIFE, Mumbai; Central Agricultural Univ.,Imphal; College of Fisheries, Berhampur; Tamil Nadu Animal Sciences and Veterinary University, Chennai etc.</p> <p><u>Research supervised:</u> <u>MFSc Dissertation</u></p> <ol style="list-style-type: none"> 1. ‘Training needs assessment of fishery extension officers of Orissa’.
<p>Awards/ distinctions/ Overseas research</p>	<ul style="list-style-type: none"> ❖ ICAR Junior Research Fellowship ❖ ICAR Senior Research Fellowship ❖ Best research unit award of CIFA for Social Science Section ❖ Best Extension Worker Award of CIFA in 2003

- ❖ Best Work in Hindi Award of CIFA in 2005
- ❖ Special appreciation letter by the Director for press and publicity work in 2006
- ❖ Young Scientist Award of Indian Society of Extension Education, New Delhi in 2007
- ❖ Best Extension Worker Award of CIFA in 2010
- ❖ Krushak Bandhu Team Award of Odisha Krushak Samaj in 2011
- ❖ Vice-President of Orissa Society of Extension Education, Bhubaneswar 2012-15
- ❖ Best Poster Award (1st) in 9th Indian Fisheries Forum (9th IFF), Chennai held during 19-23 Dec, 2011 for the research paper “Promoting composite carp culture in seasonal pond in Boudh: an empirical investigation”.
- ❖ Elected as editor, Journal of Aquaculture, Association of Aquaculturists, Bhubaneswar for the period 2012-14.

Trainings organized

Trainings conducted (Title)	Year	Duration	Number of beneficiaries	Co-ordinator/ associated
Training programme on aquaculture extension	6-9 Nov. 2002	4 days	20	Co-ordinator
ICAR sponsored short course ‘new initiatives in aquaculture extension’	14-23 Nov. 2007	10 days	25	Course Director

Important trainings undergone

Title	Duration	Institution	Year
Analysis of socio-economic and genetic data	21 March-7 April	World Fish Center, Malaysia	2000
Recent Advances in Extension Management	26 Sept.-15 Oct.	Indian Agricultural Research Institute, New Delhi	2001
Advance Gender Training	23-27 June	Xavier Institute of Management, Bhubaneswar	2003

Management Development Programme on IP Rights in Agriculture	26-30 July	National Academy of Agricultural Research Management, Hyderabad	2005
Evaluation Capacity Building for Rural Resource Management	3-12 March 11-15 April 21-25 August	IARI, New Delhi in collaboration with Michigan State University, USA	2006
Gender mainstreaming in agricultural research and extension-emerging issues and approaches	1-21 December	Directorate of Research on Women in Agriculture, Bhubaneswar	2006
Mainstreaming gender concerns in agriculture	24-28 December	National Institute of Agricultural Extension Management (MANAGE), Hyderabad	2007
Creative Writing in Agriculture	3-8 May	Indian Institute of Mass Communication, Dhenkanal	2010
Developing Managerial Competencies	5-7 Jan	Xavier Institute of Management, Bhubaneswar	2011

International exposure

Country	Purpose/ Subject Title	Year	Duration	Sponsor
Malaysia	Participated in a training workshop “ Genetics and socioeconomic data analysis under the project “Genetic improvement of carp species in Asia”	2000	21 days	World Fish Center, Malaysia

Areas of current research	Aquaculture Extension (Community based aquaculture, Prioritization of production constraints, Evaluation of extension programmes)
Memberships/Positions/Referee	<ul style="list-style-type: none"> ➤ Serving as referee for screening research papers in <i>Indian journal of Fisheries</i>, <i>Journal of Extension Education</i> and <i>Journal of Global Communication</i> ➤ Life member, Indian Society of Extension Education, New Delhi ➤ Life member, Journal of Extension Education, Bhubaneswar ➤ Life member, Journal of Extension Education, Coimbatore

Publications	PEER REVIEWED JOURNALS: 25 BOOKS EDITED: 1 BOOKS: 1 BOOK CHAPTERS/MANUALS: POPULAR ARTICLES: 20 TECHNICAL/PROJECT REPORTS: 3
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List of Research publications (only Referred articles & Books mentioned)

1.	<ol style="list-style-type: none"> 1. De, H. K. and Ramesh Babu, A., 1998. Constraints in the implementation of Joint Forest Management IN Advances in Forestry Research in India, 18 :1-20. 2. De, H. K.; G. S. Saha, and B. B. Sahu, 1999. Problem identification using farmer participatory research tool. <i>J. Ext. Edu.</i>, IV (1&2):36-40. 3. De, H. K., 2000. Measurement of Scientific Productivity in Agricultural Research <i>Interacademia</i>, 4(1):187-195. 4. De, H. K. and A. Ramesh Babu, 2001. Motivational pattern of people participating in JFM. <i>J. Ext. Edu.</i>, 12(3):3325-3326. 5. Saha, G. S. and H. K. De, 2001. Constraints analysis of freshwater fish farmers. <i>J. Ext. Edu.</i>, VI (1&2): 37-40. 6. Bhatta, R.; S. Ayyappan; K. Kumar and H. K. De, 2002. Socioeconomic analysis of carp farming in Karnataka, India IN The Fifth Indian Fisheries Forum Proceedings (eds) S.Ayyappan, J.K.Jena and M.Mohan Joseph, AFSIB, Mangalore and AoA, Bhubaneswar India :417-424. 7. Majhi, S. K. and H. K. De, 2002. Training needs of fishery extension officers of Orissa <i>Agri. Ext. Rev.</i>, 14(4):3-6. 8. De, H. K. and A. Ramesh Babu, 2003. Socio-economic impact of JFM in Bankura <i>Manage Ext. Res. Rev.</i>, IV (1):58-66. 9. De, H. K. and A. Ramesh Babu, 2003. Development orientation of people – a study of JFM participants <i>Srilanka J. Dev. Admn.</i> , 1(1) :38-46. 10. Majhi, S. K. and H. K. De, 2004. Constraints limiting job performance of fishery extension officers <i>Indian Jr. Ext. Edu.</i>, XXXX (3&4): 37-39. 11. Saha G. S.; H. K. De and K. Kumar ,2002. Aquaculture Extension in India – past, present and future <i>J. Ext. Edu.</i>, VII (1&2): 84-90. 12. De, H. K. and G. S. Saha, 2005. Semi intensive carp culture an adoption study <i>Agri. Ext. Rev.</i>, 17(4):27-30.
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13. Jena, J. K. ; H. K. De ; Sumanto Dey ; S. C. Rath ; H. K. Muduli ; A. N. Mohanty ; K. C. Pani P. Pattnaik and R. K. Jana ,2005. Aquaculture in seasonal ponds in Kalahandi towards ensuring nutrition security *J. Aquaculture*, 13: 57-64.
14. De, H. K. ; B. B. Sahu ; M. K. Pati ; J. K. Pradhan and N. Sarangi, 2005 Involvement of women in common carp breeding *Indian J. Ext. Edu.*, . 41 (3 & 4): 82-83.
15. De, H. K. and G.S. Saha, 2006. Constraints to community based aquaculture *Indian J. Ext. Edu.*, 42 (3&4): 66-68.
16. De, H. K. and G. S. Saha, 2007 Community based aquaculture an evaluation *J. Rural Dev.* 26(1): 137-146.
17. De, H. K. and Baldeo Singh, 2007. Evaluation of FFDA initiative on freshwater aquaculture in Orissa *Indian J. Ext. Edu.*, 43 (1&2): 26-30.
18. De, H. K. and G. S. Saha, 2007. Gender in Fisheries Development *J. Ext. Edu.* , XII (1 & 2):129-132.
19. Katiha, P. K.; S. Dutta ; S. Dey ; G.Ziauddin ; J.K. Jena and H. K. De, 2007. Carp polyculture for fish production in Kalahandi district of Orissa: economics and constraints *J. Inland Fish Soc. India*, 39(1): 40-44.
20. Swain, S. K. ; G. S. Saha; H. K. De ; K. Kumar ; A. K. Roy and N. Sarangi, 2007. Steering entrepreneurship among rural youth – impact of ornamental fish farming training *Agri. Situation in India*, LXIV (9):419-422.
21. De, H. K. and G. S. Saha, 2008 Women spearheading aquaculture development *Ag. Ext. Rev.*, XXI (1): 31-35.
22. Panda, N. ; K. B. Dutta and H. K. De, 2008 Estimation of direct effect of the parameters on economic empowerment of women through aquaculture activities by using path analysis *J.Ext. Edu.* , **XIII (1&2)**: 103-107.
23. Vipinkumar, V. P.; R. Sathiadhas and H. K. De, 2009. Impact of institutional dissemination of technologies and extension services on marine fisheries and mariculture to stakeholders *J. Mar. Biol. Ass. India*, 51 (1): 93-97.
24. De, H. K. and Charles J. Jeeva, 2010. Organised retailing in aqua food products prospects and potential *World Aquaculture*, 41 (3): 8-11
25. Radheyshyam; G. S. Saha and H. K. De (2011) Aquaculture Field School as an extension methodology *Aquaculture Asia*, XVI (2): 20-24.

2.	Books edited	<p>1. Radheyshyam; G S Saha and H K De (Eds) 2011. Aquaculture Innovators, Central Institute of Freshwater Aquaculture, Bhubaneswar 120 p.</p>
3.	Books	<p>1. De, H.K.; M Kumaran and G.S. Saha 2010. New Initiatives in Aquaculture Extension. Narendra Publishing House, Delhi. 201 p.</p>
4.	Popular article	<p>De, H.K. and Saha, G.S. (1999) Rural Aquaculture - Prospects and Potentials. <i>Indian Farming</i>, 49(4) pp.17</p> <p>De, H.K. and Saha, G.S. (1999) Participatory Fisheries Management. <i>Aquaculture asia</i>, IV(4) pp.31-32</p> <p>Badal P.S. and H.K.De (2001) Translating farmers constraints into development priorities - participatory rural appraisal in a village in Rajasthan. <i>Indian Farming</i> 50(11) p. 11-14</p> <p>De, H.K. and Saha, G.S. (2001) 'Indigenous technical knowledge in feed and nutrition' <i>Aquaculture asia</i>, VI(2) pp. 20-21</p> <p>De, H.K.; A.K.Pathak and B.B.Sahu (2001) 'Advances in satellite technology vis-a-vis aquaculture' <i>Fishing Chimes</i>, XXI(8) pp. 45-47</p> <p>De, H.K.; G.S.Saha; S.K.Singh and N.Sarangi (2005) Mahilaon ne kar dikhaya. <i>Kheti</i> 58(1) pp30-32</p> <p>Kumar, K.; G.S.Saha, H.K.De; S.K.Singh and N.Sarangi (2005) Jal krishi ke vikas me badhaye. <i>Kheti</i> 58(1) II,III</p> <p>De, H.K. and G.S.Saha (2005) Krishi pradhogiki suchna kendra – ek prarup. <i>Neelitima</i> 4&5 pp. 56-57</p> <p>De, H.K. and G.S.Saha (2005) Community based aquaculture – issues and challenges <i>Aquaculture asia</i>, X(4) pp. 8-9</p> <p>Sahu, B.B ; H.K. De ; M.K. Pati and N. Sarangi (2007) Impact of common carp breeding by women self help groups <i>Indian Farming</i> 57 (3) pp. 9-10</p> <p>N. Sarangi ; H.K. De; G.S. Saha and K. Kumar (2007) Aquaculture Extension in India retrospect and perspectives <i>Indian Farming</i> 56 (10) pp 23-24 Extension in India retrospect and perspectives <i>Indian Farming</i></p> <p>De, H.K. G.S. Saha and R. Srichandan(2008) Technology transfer in</p>

aquaculture : lessons learnt and ways forward *Aqua International* 16 (3) pp. 24-26

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Radheshyam; G.S. Saha, H. K. De and L Safui(2011) Fish-banana integrated farming – a success story *Fishing Chimes* 31 (2) pp. 7-10

Mondal P.P.; H K De; G S Saha and Radheyshyam(2011) Information and Communication Technology (ICT) and Aquaculture *Aqua International* 18 (12) pp. 32-35

H K De; D N Chattopadhyay; Radheyshyam; G S Saha; P P Mondal and Soumi Pal(2011) Status of Aquaculture in Purulia, West Bengal *Fishing Chimes* 31 (5) pp. 28-33

Chattopadhyay, D.N., De, H.K., Saha, G.S., Radheyshyam, Pal, S. and Satpati, T. S. (2012). Freshwater Aquaculture in Boudh District of Odisha: Prospects and potentials. *Fishing Chimes*. 31(11) p. 20-23

De, H.K., Saha, G.S. and Radheyshyam (2012). Training and sensitizing the farmers in fish farming through Aquaculture Field School. *Indian Farming*. 62(2) p. 31-33