



1. Name: DR. BISWAJIT KAR
2. Designation: State Aided College Teacher
3. Department : Environmental Science
4. Date Of joining: 19/12/2013
5. Contact Address: Vill+P.O- Daharkundu, P.S- Arambagh, Dist- Hooghly, Pin-712617
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7. Academic Qualifications:

Degree	Stream	College / University	Year of Passing
Ph.D.	Environmental Science	Department of Environmental Science, University of Kalyani	2018
M.Sc	Environmental Science	Department of Environmental Science, University of Kalyani	2011
B.Sc	Environmental Science	Netaji Mahavidalaya, University of Burdwan	2009

8. Professional Membership: NIL

9. Total Experience:

- 9a) Teaching Experience: 9 Y
- 9b) Industry Experience: NIL
- 9c) Research Experience: 10 Y

10. Experience Details:

Completed Ph.D research work entitled “**Studies on emission of some green house gases from the rice field, assessment of productivity and mitigative strategy under new alluvial agroclimatic condition of West Bengal**” under joint supervision of Prof. Rina Bhattacharya, Department of Environmental Science, University of Kalyani, Nadia, West Bengal and Prof.

Gautam Saha, Department of Agricultural Meteorology and Physics, Bidhan  
Chandra Krishi Vishwavidyalaya, Mohanpur, West Bengal.

11. Area of Research:

Estimation of Green House gases emission from agricultural field.

12. Publications: 08

12 a) Number of Publication in International Journal: 06

12 b) Number of Publication in National Journal: 02

12c) Number of Publication in International Conference Proceedings:

12d) Number of Publication in National Conference Proceedings:

12e) Number of Books / Books chapters: 02

13) List of Publication:

13a) International Journal:

Author(s)	Title of the Paper	Details of Journal	Publishers
G. Saha, <b>B. Kar</b> and S. Karmakar.	Methane and Nitrous Oxide Emission from Kharif Rice Field as Influenced by Nutrients and Moisture Regimes in New Alluvial Agroclimatic Region of West Bengal.	<i>Current Science</i> , Vol. 112(5), 2017, P 989-995	Indian Academy of Science
G. Saha, S. Karmakar, <b>B. Kar</b> , R. Bhattacharya and G. Singh.	Studies on Emission Potentiality of Nitrous Oxide from Wheat Field under Changed Climate.	<i>Current Science</i> , Vol. 109(4), 2015, P 768-774.	Indian Academy of Science
G. Saha., S. Karmakar. and <b>B. Kar.</b>	Quantification of N <sub>2</sub> O flux density of winter rice as influenced by Soil environment	<i>Agrometeorology</i> , Vol. 19, Special issue (2016) 2017, P 308-317.	Association of Agrometeorologists
G. Singh., G. Saha., K., Roy., M. Soniya., S. Karmakar. and <b>B. Kar.</b>	Eco-climatic variation influencing thrips (Thrips tabaci L.) Population dynamics of onion (Allium cepa L.).	<i>Agrometeorology</i> . Vol. 19, Special issue (2016) 2017, P 278 – 284.	Association of Agrometeorologists
S. Karmakar, G. Saha, <b>B. Kar</b> , and R. Bhattacharya	Investigations on suspended particulate matter (PM <sub>10</sub> ) and their relationships with production component of wheat under changed climate.	<i>Agrometeorology</i> . Vol. 20, Special issue (2016) 2018, P 107 – 113.	Association of Agrometeorologists
<b>B. Kar</b> , S. Karmakar, G. Saha and R. Bhattacharya.	Estimation of Methane flux from rice field as influenced by plant-climate under varied management practices.	<i>Agrometeorology</i> . (ISSN 0972-1665) Vol 21, Special issue (2019) P 56 – 65.	Association of Agrometeorologists

13b) National Journal: TWO

Author(s)	Title of the Paper	Details of Journal	Publishers
<b>B. Kar</b> , S. Karmakar, G. Saha and R. Bhattacharya	Investigations on nitrous oxide emissions from organic rice fields as influenced by atmospheric factors.	<i>Crop and Weed Research</i> , Vol. 10(2), 2014, P 190-195.	Crop and Weed Science Society
S. Karmakar, G. Saha, R. Bhattacharya and <b>B. Kar</b>	Green house gas emission potentiality of wheat as influenced by microclimate and ambient sunshine under varied climatic conditions.	<i>Crop and Weed Research</i> , Vol. 10(2), 2014, P 231-239.	Crop and Weed Science Society

## 13c) International Conference

Author(s)	Title of the Paper	Details of Conference	Publishers
B. Kar, S. Karmakar, G. Saha and R. Bhattacharya	<i>Estimation of Methane flux from rice field as influenced by plant-climate under varied management practices.</i>	<i>New Dimensions in Agrometeorology for Sustainable Agriculture (NASA-2014)</i> organized by Associations of Agrometeorologists (16-18 <sup>th</sup> October, 2014)	G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand

## 13d) National Conference

Author(s)	Title of the Paper	Details of Conference	Publishers
B. Kar, S. Karmakar, G. Saha and R. Bhattacharya	<i>Comprehensive Studies on Plant Bio-Characters Influencing CH<sub>4</sub> Emission Potentiality in Rice Ecosystem of West Bengal</i>	Climate Driven Food Production Systems Agrometeorological Interventions (AGMET – 2016)” organized by Associations of Agrometeorologists (20–22 <sup>th</sup> December, 2016)	Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu).
B. Kar, S. Karmakar and G. Saha	Green house gas emission from rice seed bed – a comprehensive approach.	Innovative Farming for Food and Livelihood Security in Changing Climate 2018” Jointly organized by Innovative Farming Society for Advancement of Agricultural Innovations (SAAI) and AICRP on Soil Test Crop Response Correlation (12-13 <sup>th</sup> January, 2018)	Directorate of Research, BC West Bengal.
B. Kar, S. Karmakar G. Saha and R Bhattacharya	TRADE-OFF ASSOCIATION BETWEEN CH <sub>4</sub> AND N <sub>2</sub> O EMISSION UNDER DIFFERENT CULTIVATION PRACTICES OF KHARIF RICE – A COMPREHENSIVE STUDY	Challenges and Significance of Ecosystem Research in Asia to Better Understand Climate Change” organized by AsiaFlux (22-27 <sup>th</sup> November, 2015)	Indian Institute of Tropical Meteorology, Pune).

## 13e) Book/ Book chapters:

Author(s)	Title of the Book Chapter	Publishers
Karmakar, S., Roy, R., Bhattacharya A., Kar B., Kumar, S., Singh, R., Bauddh, K., Kumar, N.	Rhizobacteria assisted phytoremediation of oily-sludge-contaminated sites”. In: Bauddh, K., MA, Y. (Eds.) Emerging eco-friendly green technologies for wastewater treatment, Microorganism for Sustainability,	Elsevier. DOI: <a href="https://doi.org/10.1016/j.procs.2016.09.006">https://doi.org/10.1016/j.procs.2016.09.006</a>
Karmakar, S., Bhattacharya, A., Ghosh Roy, R., Kumar, S., Kar, B. and G Saha	Suitability of coupling application of organic and inorganic fertilizers for crop cultivation. In: Bauddh, K., Kumar, S., R.P. and Korstad, J. (Eds) Ecologically sound and practical applications for sustainable agriculture.	Springer Nature Singapore Pte, Ltd. <a href="https://doi.org/10.1007/981-15-3372-3_8">https://doi.org/10.1007/981-15-3372-3_8</a>

14. Sponsored Projects: NIL

15. Number of M.Phil thesis guided: NIL

16. Number of Ph.D. thesis guided: NIL

17. Awards and Honours: THREE

**First runner-up award for poster presentation as presenter** for the research paper entitled “*Estimation of Methane flux from rice field as influenced by plant-climate under varied management practices*” authored by **B. Kar**, S. Karmakar, G. Saha and R. Bhattacharya in International Symposium on “*New Dimensions in Agrometeorology for Sustainable Agriculture (NASA-2014)*” organized by Associations of Agrometeorologists (16-18<sup>th</sup> October, 2014 at G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand).

**Best award for oral presentation as co-author** for the research paper entitled “*Exploration of CO<sub>2</sub>-C Flux Dynamics of Wheat - Soil managed by selected Agro-Practices in Gangetic Bengal*” as a co-authored in National Symposium on “*Climate Driven Food Production Systems Agrometeorological Interventions (AGMET – 2016)*” organized by Associations of Agrometeorologists (20–22<sup>th</sup> December, 2016 at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu).

**Best award for oral presentation as co-author** for the research paper entitled “Green house gas emission potentiality of wheat as influenced by microclimate and ambient sunshine under varied climatic conditions” as a co-authored International Seminar on “*Integrating Agriculture & Allied Research: Prioritizing Future Potentials for Secure Livelihoods (ISIAAR-2014)*” organized by Association of Crop and Weed Science Society (6-9<sup>th</sup> November, 2014 at Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal).

18. Short term courses / Workshop organized: NIL

19. Short term courses/ Workshop attended (Minimum One week): ONE

Summer Workshop on “Developments in Climate Change and Sustainable Development” supported by Department of Science and Technology, Government of India conducted by Tata Institute of Social Science, Mumbai, India (4<sup>th</sup> June to 17<sup>th</sup> June 2018)

20. Area of Specialization: Soil Science and Environmental Physics

21. Additional academic or co- curricular activities undertaken