

CURRICULUM VITAE

PERMANENT ADDRESS:

Dr. Md.Mozammel Haque

Village: Babupur, P.O.: Natuda,
Upozilla:Mujibnagar Zilla: Meherpur,
Bangladesh

PRESENT ADDRESS:

Senior Scientific Officer
Soil Science Division
Bangladesh Rice Research Institute
Gazipur-1701, Bangladesh
Email: mhaquesoil@yahoo.com

**EDUCATIONAL QUALIFICATION:**

Certificate Degree	Field of Specialization	Name of Institution Attended	Duration of course	Class
Ph.D.	Greenhouse gas emission, Carbon sequestration, Rice productivity	Gyeongsang National University, Jinju, South Korea	Awarded (September 2010 – Augst 2014)	--
M.S.	Soil science	Bangladesh Agricultural University, Bangladesh	Jun 2000 - Juner 2001	First class
B.Sc.Ag	Agriculture	Bangladesh Agricultural University, Bangladesh	Jun 2003 - Apr 2006	Second class

RESEARCH EXPERIENCE:**1. Ph. D. Fellow:** September 2010 – August 2014

Work: I have experience in greenhouse gas emission (CH₄, CO₂ and N₂O emission) determined from rice paddy field under arobc and anaerobic condition. I have developed management practices for reduced greenhouse gas emission as well as mitigation global warming potential. I have work on carbon sequestration using CH₄ and CO₂ emission analysis technique. I have also work disslove organic carbon, hot water extractable carbon, carbohydrate etc analysis.

2. M.S. research project: Jun 2000 - Juner 2001

Work: P, K and Ca sorption in rice paddy soil and physio-chemical properties determine.

PROFICIENCY IN ANALYTICAL TECHNIQUES / COMPUTERS:**Technical Skills/Instrumentation handling:**

1. Enzyme preparation for biochemical assays using homogenization and ultrasonication techniques.
2. Enzyme purification by ammonium sulfate precipitation, ion exchange chromatography and good hand with enzyme assay development and inhibition study of enzyme.

3. Experience in handling of Colorimeter, Microwave oven, Ultrasonication, Micro centrifuge, Laminar air flow, Autoclave, UV-Vis spectrophotometer, Fourier Transform Infrared Spectroscopy, High Performance Thin Layer Chromatography, High Performance Liquid Chromatography, Gas chromatography.

4. Wastewater analysis by using the following methods: biological oxygen demand (BOD), chemical oxygen demand (COD) and total organic carbon (TOC).

Computer literacy: MS office, Data analysis using Graph Pad, ACD chemsketch software, Sigma plot.

TITLE OF Ph.D. THESIS: Ph.D. completion date - August, 2014

“Effective Cover Crop and Water Management to Decrease Methane Emission and Sustain Soil Organic Carbon Stock in Rice Paddy”.

RESEARCH PUBLICATIONS: International (9)

Total IF-19.24

Total citations-9

h-index-2

1. **Haque, M. M.**, S. Y. Kim., G. Kim., P. J. Kim. 2015. Optimization of Removal and Recycling Ratio of Cover Crop Biomass Using Carbon Balance to Sustain Soil Organic Carbon Stocks in a Mono-Rice Paddy System. *Agriculture Ecosystems and Environment*. 10.1016/j.agee.2015.03.02.
2. **Haque, M. M.**, Kim, S.Y., Pramanik, P., Kim, G.Y., Kim, P. J., 2013. Optimum application level of winter cover crop biomass as green manure under considering methane emission and rice productivity in paddy soil. *Biology and Fertility of Soils*. 49:487–493.
3. **Haque, M. M.**, Kim, S.Y., Ali, M.A., Kim, P.J., 2014. Contribution of greenhouse gas emissions during cropping and fallow seasons on total global warming potential in mono-rice paddy soils. *Plant Soil*. 387:251–264.
4. **Haque, M. M.**, Saleque, M.A. Shah, A.L. Waghmode, T.R. Effects of Long-Term Fertilization and Soil Native Nutrient on Rice Productivity in Double Rice Cultivation System. *Aperito Journal of Biochemistry and Biochemical Techniques*. 1:103.
5. **Haque, M. M.**, Saleque, M.A. Shah, A.L. Effect of Long-Term Fertilization on Rice Productivity and Nutrient Efficiency under Double Cropping System. *Aperito Journal of Biochemistry and Biochemical Techniques*. 1:105.
6. Pramanik. P., **Haque, M. M.**, Kim, P.J., 2013. Effect of nodule formation in roots of hairy vetch (*Vicia villosa*) on methane and nitrous oxide emissions during succeeding rice cultivation. *Agriculture, Ecosystems and Environment*. 178, 51– 56.
7. Pramanik. P., **Haque, M. M.**, Kim, S.Y., Kim, P.J., 2014. C and N accumulations in soil aggregates determine nitrous oxide emissions from cover crop treated rice paddy soils during fallow season. *Science of the Total Environment*. 490, 622–628.

8. Kim, G.Y., Gutierrez, J., Jeong, H. C., Lee, J. S., **Haque, M. M.**, Kim, P. J., 2014. Effect of Intermittent Drainage on Methane and Nitrous Oxide Emissions under Different Fertilization in a Temperate Paddy Soil During Rice Cultivation. *Journal of the Korean Society for Applied Biological Chemistry*. 57:229-236.
9. Lee, S. B., **Haque, M. M.**, Pramanik, P., Kim, S.Y., Kim, P. J., 2011. Comparison of carbon sequestration potential of winter cover crop cultivation in rice paddy soil. *Korean Journal of Environmental Agriculture*. 3:234-242.

RESEARCH PUBLICATIONS: **National (10)**

1. **M. M. Haque.**, M. J. A. Mian., M. R. Islam., M. K. Uddin., M. R. H. Mondol. 2007. Sorption Behaviour of Phosphorus, potassium and Calcium in Different soil texture. *Intl. J. BioRes.*2(1):14-21.
2. **M. M. Haque.**, M. H. Rashid., M. A. Aziz., M. K. Uddin. 2006. Sorption Behaviour of Phosphorus, potassium and Calcium in Different soils of available pH. *Int. Sustain. Agril.Tech.* 2(5):12-18.
3. A. L. Shah., M. R. Islam., **M. M. Haque.**, M. Ishaque., M. A. M. Miah. 2008. Efficacy of major nutrients in Rice production. *Bangladesh J. Agril. Res.* 33(3):639-645.
4. A. L. Shah., **M. M. Haque.**, S. K. Zaman. 2008. Implications of long-term missing element trial: Efficacy of Potassium fertilizer to increase rice yield. *Bangladesh Rice J.*14 (1&2):55-59.
5. M. A. Saleque., M. N. H. Mahmud., A. Khatun., **M. M. Haque.**, A.T. M. S. Hossain., S. K. Zaman. 2008. Soil Qualities of saline and Non-saline Deltas of Bangladesh. *Bangladesh Rice J.* 14(1&2):99-111.
6. M. A. Aziz., M. A. M. Miah., **M. M. Haque.**, M. K. Uddin. 2004. Performance of fused Magnesium phosphate fertilizer on the growth and yield of wetland Rice. *Int. Subtrop Agric .Res. Dev.* 2(3):15.
7. M. A. Aziz., M. A. Hashem., K. U. Ahamed., **M. M. Haque.** 2004. Effect of salinity on growth and nitrogen fixation of Cyanobacteria. *Bangladesh J. Prog.S ci. & Tech.* 2(2):193-196.
8. M. S. Uddin., M. H. Rashid., M. Mohiuddin., H. Rahman., **M. M. Haque.** 2008. Effect of split application of N and K fertilizer and bagging on the growth and yield of Banana. *Intl. J. BioRes.* 5(4):21-25.
9. M. K. Uddin., M. K. Hasan., **M. M. Haque.**, M. H. Rashid., M. R. Amin. 2007. Effect of sowing dates on yield and yield Atributes of soybean genotypes. *Intl. J. BioRes.* 3(2):13-17.
10. M. M. Sarder., M. R. H. Mondol., M. F. Hossain., M. B. Anwar., **M. M. Haque.** 2010. Effect of different Fungicides in controlling stemphylium blight and their effect on growth and yield of lentil. *Intl. J. BioRes.* 8(4):1-5, April 2010

MANUSCRIPT UNDER REVISION:

1. Suppressing methane emission and global warming potential from rice field through intermittent drainage and green biomass amendment (**Applied Soil Ecology**).
2. Global warming potential as affected by incorporation of variable aged biomass of hairy vetch for rice cultivation (**Soil Research**).

3. Comparison of global warming potentials between continuous flooding and intermittent drainage in a paddy soil during rice cultivation (**Geoderma**)
4. Long-Term Effect of Sulfur and Zinc Fertilization on Rice Productivity and Nutrient Efficiency in Double Rice Cropping Paddy in Bangladesh (**Soil Science and Plant Nutrition**)

PRESENTATIONS AT ACADEMIC CONFERENCES: (8)

1. **Haque MM, Kim SY, Kim PJ**, Considering Minimum Recycling Ratio of Cover Crop Biomass to Maintain Soil Carbon Stock in Rice Paddy .Soil organic matter international conference, Nanjing, China. May 2012
2. **Haque MM, Kim SY, Kim PJ**, Effect of Intermittent drainage on suppressing CH₄ emission and Global warming potential under cover crop biomass amendment during rice cultivation conference on soil science organized by Korean society of soil science and fertilizer, Suwon, South Korea. July 2014.
3. **Waghmode TR, Haque MM, Kim SY, Kim GW, Young H, Kim PJ**, A combined effect of ethylenediaminetetraacetic acid and 2-bromoethanesulfonate on methane production in soil, conference on soil science organized by Korean society of soil science and fertilizer, Suwon, South Korea. Dec. 31-Nov. 1st, 2013.

OTHER INFORMATION / EXTRA CURRICULAR ACTIVITIES:

1. Award of Best presenter on research presentation Gyeongsang National University, Korea, September, 2012.
2. Best presenter on Poster presentation, Korean society of soil science and fertilizer conference, May, 2013.
3. Young pioneer Researcher Award Dean of the Graduate school, Gyeongsang National University, 29th May, 2013.
4. Best presenter on research presentation Gyeongsang National University, Korea, October, 2013.
5. Excellent Presentation Award, Director of the Brain Korea 21 Plus program, Gyeongsang National University, Korea, November, 2013.
6. Young scientist Award Dean of the Graduate school, Gyeongsang National University, 28th May, 2014

PERSONAL DETAILS:

Name	Dr. Md.Mozammel Haque
Father Name	Late Md. Mohiuddin Molla
Date of Birth	01.12.1973
Nationality	Bangladeshi

REFERENCES:

Prof. (Mr.) Pil Joo Kim Professor, Soil Science Lab, College of Agriculture and Life Sciences, Gyeongsang National University, 900 Gajwa-dong, Jinju, Gyeongnam 660-701, South Korea. Email: pjkim@gnu.ac.kr	Dr M A saleque Chief Scientific Officer Soil Science Division, BRRI,Gazipur Bangladesh Email: asaleque_brri@yahoo.com
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DECLARATION:

I, Dr. Md.Mozammel Haque, hereby declare that all the above information is correct to the best of my knowledge.

Place: Meherpur, Bangladesh.

(Dr. Md.Mozammel Haque)