1.	**Name**	Umme Aminun Naher			
2.	**Designation**	Principal Scientific Officer			
3.	**Present Address**	Mirpur-1, Dhaka			
4.	**Tel./Mob./Fax.**	0088-01913151914			
5.	**Email/Web:**	naher39@gmail.com			
6.	**Date of Birth**	28-10-1970			
7.	**Specialization**	Soil Microbiology, Biofertilizer, Soil fertility and Fertilizer management			
8.	**Education**				
	Degree	**Year**	**Institute**		**Major Subject/Field**
	Post Doc.	May, 2011 – April, 2013	Institute of Tropical Agriculture, Malaysia		Soil Microbiology, Biofertilizer
	PhD	2009	Universiti Putra Malaysia		Soil Microbiology, Biofertilizer
	MSc/MS	2003	Bangladesh Agricultural University		Soil Science
	BSc	1996	Bangladesh Agricultural University		Agriculture
9.	**Training**				
	Foreign				
	Organization	**Year**	**Duration**		**Name of Program**
			To	From	
	Universiti Sains Malaysia	2012	15	19th October	Training Workshop on Technopreneurship for South Countries
	Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia.	2009	25	28th November	Identification of Bacteria Using Molecular- Techniques
	FSSRI, College of Agriculture, University of Philippines Los Banõs.	2001	24th January	17th March	International Training Course on Farming Systems Research and Development.
	In-Country				
	Organization	**Year**	**Duration**		**Name of Program**
			To	From	
	Bangladesh Agricultural Research Council	2010	22	24th February	Use of Fertilizer Recommendation Guide
	Bangladesh Agricultural Research Council	2010	27th March	1st April	Use of Manual for Fertilizer Analysis
	Bangladesh Agricultural Research Council	2000			Training Workshop on Integrated Plant Nutrition System (IPNS).
	Bangladesh Agriculture Research Institute	2000	6	10th March	On-Farm Soil Fertility and Fertilizer Management.
	Bangladesh Academy of Rural	2000		4 months	Foundation Training Course.

	Development				
	Bangladesh Rice Research Institute	1999	12th July	9th September	Rice production, Communication and Office Management
10.	**Publication(s): (Heading & PDF file)**				
		National			
	Full length paper	Naher, U. A., Hashem, M. A., Uddin, M. K., Sultana, M.M., and M. A. Saleque. 2004. Carbon and nitrogen mineralization rate of cowdung and poultry manure with and without rice straw and lime. Progress Agric. 15 (1):24-28.			
	Full length paper	Saleque, M. A., Naher, U. A., Pathan, A. B. M. B. U., Hossain, A. T. M. S and A. Islam. 2002. Changes in phosphorus fractions in lowland rice soils due to organic and inorganic fertilizer application for eight years. Bangladesh Journal of Agricultural Sciences. 29(2): 259-265.			
	Full length paper	Islam, A., U. A. Naher, A. T. M. S. Hossain, B K Mitra and M A Saleque. 2004. Effect of organic and inorganic amendment on phosphorus sorption characteristic of lowland soil. Bangladesh J. Agril. Res. 29(3):459-465.			
	Full length paper	Pathan, A. B. M. B. U., Choudhury, A. K., Ishaque, M., Hossain, S.T. and U. A. Naher. 1999. Growth and yield of lowland rice in three soils with varying level of nutrients and amended with zinc and boron. Journal of Agricultural Education and Technology. 29(1): 21-24.			
	Short communication	Saha, P.K., Hossian, A.T.M.S., Naher, U.A., and M.A. Saleque. 2004. Nutrient composition in some available organic materials for agricultural use in Bangladesh. Bangladesh Journal of Agricultural Research. 29 (1): 165-168.			
		International			
	Full length paper	Panhwar, Q.A.,Naher, U.A, Shamshuddin, J., Radziah, O, and Mohd Razi, I. 2015. Eliminating Aluminum Toxicity in an Acid Sulfate Soil for Rice Cultivation using Plant Growth Promoting Bacteria. Molecules. 20: 3628-3646. (ISI-IF 2.095).			
	Full length paper	Panhwar, Q.A., Naher, U.A., Radziah, O., Shamshuddin, J., Mohd Razi, I, Sharifa Sultana Dipti and Karbalaei Aghamolki, M.T. 2015. Applying Zn, Cu and Mo in to riverine alluvial soils in Malaysia: Their effects on the quality of rice and its antioxidant activities. South African J. Bot. 98: 77-83. (ISI-IF 1.39)			
	Full length paper	Shamshuddin, J., A. Elisa Azura, M.A.R.S. Shazana, Fauziah, C.I., Panhwar Q.A. and U. A. Naher. 2014. Properties and management of acid sulfate soils in Southeast Asia for sustainable cultivation of rice, oil palm and cocoa. Adv. Agron. 124: 91-142. (ISI-IF: 5.060).			
	Full length paper	Panhwar, Q.A., Shamshuddin, J., **Naher,** U.A, Radziah, O, and Mohd Razi, I. 2014. Biochemical and molecular characterization of potential phosphate-solubilizing bacteria in acid sulfate soils and their beneficial effects on rice production. PLOS ONE.(ISI-IF 3.534). DOI: 10.1371/journal.pone.0097241.			
	Full length paper	Panhwar, Q.A., Shamshuddin, J., Naher, U.A, Radziah, O, and Mohd Razi, I. 2014. Bio-fertilizer, ground magnesium limestone and basalt application may improve chemical properties of Malaysian acid sulfate soils and rice growth. Pedosphere. 24(6): 827-835. (ISI-IF 1.39)			
	Full length paper	Shah, A.L., Naher, U.A., Hasan, Z., Panhwar, Q.A.and Radziah, O. 2014. Influence of Arsenic on Rice Growth and its Mitigation with Different Water Management Techniques. Asian Journal of Crop Science. : 1-9 (Scopus IF: 0.332)			
	Full length paper	Mir Kabir, M.M., Naher, U.A., Panhwar, Q.A., Shamshuddin, J. and Khan, F.H. 2014. Effect of transplanting dates on growth and yield of inbred and hybrid rice varieties in rainfed transplanted aman season. The Philippine Agricultural Scientist.97(4): 347-345.(ISI-IF: 0.315).			
	Full length paper	Hasan, Z., Nath, U.K., Naher, U.A.,Panhwar, Q.A. and Razi, M.I. 2014. Crossability,			

		heterosis and genetic study of salinity tolerance indigenous and modern rice cultivars. Res J Biotech. 9(11): 72-78. (ISI-IF: 0.299).
	Full length paper	Shazana, M.A.R., Shamshuddin, J., Fauziah, C.I. Panhwar, Q.A. and Naher, U.A. 2014. Effects of Applying Ground Basalt with or without Organic Fertilizer on the Fertility of an Acid Sulfate soil and the Growth of Rice. Malaysian Journal of Soil Science. 18: 87-102. (Scopus IF: 0.139).
	Full length paper	Zulkarami, B., Panhwar, Q.A. Halimi, M.S. Mondal, M.A., Mohd Razi, I. and Naher, U.A. and Islam, R. 2014. Rice yield improvement by foliar application of phytohormone. J Food Agri Environ. 12(2): 399-404. (JCR Scopus 0.246).
	Full length paper	Rajput, A., Panhwar, Q.A., Naher, U.A., Rajput, S., Hossain E. and Shamshuddin, J. 2014. Influence of incubation period, temperature and different phosphate levels on phosphate adsorption in soil. *Am. J. Agri. Biol. Sci. 9(2): 251-260. (*Scopus JCR0.25*).*
	Full length paper	Panhwar, Q. A., Rajput, A., Naher, U.A. and Shamshuddin, J. 2014. Assessment of phosphorus use efficiency and various P application methods on wheat in calcareous soil. J Food, Agri Environ. 12(2): 1318-1322. (JCR Scopus 0.246).
	Full length paper	Panhwar, Q.A., Radziah, O., Naher, U. A., Zaharah, A. Rahman, Sariah, M., Mohd Razi, I. and Shamshuddin, J. 2013. Effect of phosphate-solubilizing bacteria and oxalic acid on P uptake from different P fractions and growth improvement of aerobic rice using 32P technique.Aust. J. Crop Sci. 7(8): 1131-1140. (Scopus JCR 0.398).
	Full length paper	Panhwar, Q.A., O. Radziah, U.A. Naher, and J. Shamshuddin. 2013. Application of potential phosphate solubilizing bacteria and organic acids on phosphate solubilization from phosphate rock in aerobic rice. Scientific WorldJournal. http://dx.doi.org/10.1155/2013/272409.(ISI-IF: 1.219).
	Full length paper	Shah, A.L., Naher, U.A., Islam, S.M.M., Hasan, Z., Panhwar, Q.A. and Shamshuddin, J.2013.Occurrence of Arsenic in Soils, Groundwater and Rice Plants in Selected Districts of Bangladesh. Jokull journal.63(11): 122-131. (ISI-IF: 1.00).
	Full length paper	Naher, U.A., Radziah, O., Latif, M.A. and Panhwar, Q.A. Puteri, A.M.A. and Shamshuddin, Z.H. 2013. Biomolecular Characterization of Diazotrophs Isolated from the Tropical soil in Malaysia. Inter. J. Mol. Sci. 14: 17812-17829. (ISI-IF: 2.339)
	Full length paper	Naher, U.A., O. Radziah and Panhwar, Q.A. 2013. Beneficial Effects of Mycorrhizal Association for Crop Production in the Tropics- A Review. Inter. J. Agric. Biol. 15(5): 1021–1028. (ISI-IF: 0.902)
	Full length paper	Naher, U.A., Radziah, O. and Panhwar, Q.A. 2013. Culturable total and beneficial microbial occurrences in long-term nutrient deficit wetland rice soil. Aust. J. Crop Sci. 7(12):1848-1853.(Scopus JCR 0.398).
	Full length paper	Radziah, O. Naher, U. A. and Yusoff S. Z. 2013. Effect of urea-N on growth and indoleacetic acid production of Strentrophomonas maltophilia (Sb16) isolated from rice growing soils in Malaysia. CHILEANJAR. 73 (2): 187-191. (ISI-IF: 0.50)
	Full length paper	Mohd Fauzihan, K, A'fifah, A. R., Razi, M. I., Radziah, O., Halimi, M. S., Zulkarami, B., Naher, U.A.and Panhwar, Q.A.2013. Growth Promotion and Biochemical Activities of Capsicum annum using Azospirillum brasilense under Deficit Fertigation. Jokull Journal. 63(9): 106-136.(ISI-IF: 1.00).
	Full length paper	Zulkaliph, Z. N., Jueami A. S., Uddin Md. K, Mohd. Razi I. and U. A. Naher. 2013. Screening of potential salt tolerant turfgrass species in Peninsular Malaysia.Australian journal of Crop sciences. 7 (10): 1571-1581.(Scopus JCR 0.398)

	Full length paper	Othman, R. Naher U.A. and Hamed S. I. A. 2012. Effect of Paraquat on growth of diazotrophic strain Stenotrophomanas maltophila in flooded soil. African Journal of Microbiology Research. 6 (23):4939-4944.(Scopus JCR 0.25)
	Full length paper	Mutalib, A. A.,Radziah O, Shukor, Y., and Naher U.A. 2012. Effect of nitrogen fertilizer on hydrolytic enzyme production, root colonization, N metabolism, leaf physiology and growth of rice inoculated with Bacillus sp. (Sb42). Australian journal of Crop sciences. 6(9):1383-1389.(Scopus JCR 0.398)
	Full length paper	Panhwar, Q. A., O. Radziah, A. R. Zaharah, M. Sariah, I. Mohd Razi and Naher, U. A. 2012. Root colonization and association of phosphate- solubilizing bacteria at various levels of triple supper phosphate in aerobic rice seedlings. African J. Microbiol. Res. 6(10): 2277-2286. (Scopus JCR 0.25).
	Full length paper	Panhwar, Q.A., Radziah, O., Khanif, Y. M., and Naher, U. A. 2011. Application of boron and Zinc in the tropical soil and its effect on Maize (Zea mays) growth and soil microbial environment. Aust. J. Crop Sci. 5(12): 1649-1654.(Scopus JCR 0.398).
	Full length paper	Rahim, A. H., Uddin, Md. K, Naher, U.A.,A. S. Juraimi and Alam., M. A. 2011. Application of silica to suppress the disease infestation of Phytium ultimum and increase growth of Bermudagrass cv Satiri. African Journal of Microbiology Research. 6 (9) 2079-2084. (Scopus JCR 0.25).
	Full length paper	Uddin Md. K., Juraimi A. S., Mohd. Razi I., Naher, U. A., Radziah, O., and Rahim Abdul A. 2011. Application of saline water and herbicides as a method for weed control in the tropical turfgrass: Its impact on nutrient uptake and soil microbial community. 2011. African Journal of Microbiology Research. 5 (29):5155-5164. (Scopus JCR 0.25)
	Full length paper	Naher, U.A. Saleque M.A, Panhwar, Q.A., Radziah, O., and J. Shamshuddin. 2011. Techniques of efficient fertilizer management for wetland rice-a review. Aust. J. Crop Sci. 5(12): 1661-1669.(Scopus JCR 0.398).
	Full length paper	Panhwar, Q. A., O. Radziah, A. R. Zaharah, M. Sariah, I. Mohd Razi and Naher, U.A. 2011. Contribution of phosphate-solubilizing bacteria in phosphorus bioavailability and growth enhancement of aerobic rice. Span. J. Agric. Res. 9(3): 810-820. (ISI-IF: 0.514
	Full length paper	Naher, U.A., Radziah, O., Shamsuddin, Z.Hj. Halimi, M.S., Razi, M.I. and Rahim K. A. 2011. Effect of root exuded specific sugars on biological nitrogen fixation and growth promotion in rice (Oryza sativa). Australian Journal of Crop sciences. 5(10):1210-1217.(Scopus JCR 0.398)
	Full length paper	Naher, U. A., Radziah, O., Shamsuddin, Z.H., Halimi, M. S., and Mohd Razi, I. 2009. Isolation of diazotrophs from different soils of Tanjong karang rice growing area in Malaysia. International Journal of Agriculture and Biology. 11: 547-552. (ISI-IF: 0.902)
	Full length paper	Naher, U. A., Radziah, O., Halimi, M. S., Shamsuddin, Z.H. and Mohd Razi, I. 2009. Influence of root exudate carbon compounds of three rice genotypes on rhizosphere and endophytic diazotrophs. Tropical Agriculture. 32 (2):209-223. (Scopus JCR)
	Full length paper	Naher, U. A., Radziah, O., Shamsuddin, Z.H., Halimi, M. S., and Mohd Razi, I.2009. Growth Enhancement and Root Colonization of Rice Seedlings by Rhizobium and Corynebacterium spp. International Journal of Agriculture and Biology. 11: 586-590.7. (ISI-IF: 0.902)
	Full length paper	Naher, U.A., Radziah, O., Halimi, M.S., Shamsuddin, Z.H. and Razi, M.I. 2008. Specific growth rate and carbon sugar consumption of diazotrophs isolated from rice rhizosphere. Journal of Biological Sciences. 8(6): 1008-1014. (Scopus JCR)

	Full length paper	Naher, U.A., Radziah, O., Halimi, M.S., Shamsuddin, Z.H. and Razi, M.I. 2008. Effect of inoculation on root exudates carbon sugar and amino acids production of different rice varieties. Research Journal of Microbiology. 3(9): 580-587.
	Full length paper	Saleque, M. A., Naher, U. A., Islam, A., Pathan, A.B.M.B.U., Hossain, A.T.M.S. and C. A. Meisner. 2004. Inorganic and organic phosphorus fertilizer effects on the phosphorus fraction in wetland rice soils. Soil Science Society of America Journal. 68: 1635-1644. (ISI-IF: 2.88)
	Full length paper	Saleque, M. A., Naher, U.A., Choudhury N. N and A.T.M.S. Hossian. 2004. Variety specific nitrogen fertilities recommendation for lowland rice. Communication in Soil Science and Plant Analysis. 35: 13-14.(ISI-IF: 0.59)
	Full length paper	Naher, U.A., Hashem, M. A., Uddin, M. K., Ahmed, M. and M. A., saleque. 2004. Carbon mineralization and carbon dioxide evolution rate of cow dung and poultry manure along with rice straw and lime under covered condition in the tropical environment. Pakistan Journal of Biological Sciences. 7(2): 155-158.
	Full length paper	Naher, U. A., Hashem, M. A., Mitra, B. K., Uddin, M. K. and M. A. Saleque. 2004. Effect of rice straw and lime on phosphorus and potassium mineralization from cow dung and poultry manure under covered and uncovered conditions in the tropical environment. Pakistan Journal of Biological Sciences. 7(1): 45-48.
	Book	Naher, U.A. and Radziah, O. 2012. Root exudates on diazotroph-rice genotype association. Ed. Rasu I. Lambert Academic Publishing, Germany pp 85. (ISBN 987-3-659-18266-2)
	Book	Panhwar, Q. A., Radziah, O. and Naher U. A. 2014. Role of phosphate solubilizing bacteria on the growth of aerobic rice. Ed. Rasu I. Lambert Academic Publishing, Germany pp 80.
	Book Chapter	Naher, U,A., Radziah, O., Panhwar, Q.A. and Mohd Razi Ismail. 2014. Biofertilizer for sustainable rice production and reduction of environmental pollution. "Crop Production and Global Environmental Issues" Editor: Khalid Ul Rehman Hakeem.Springer International, Switzerland in March, 2015 (Accepted)
	Book Chapter	Panhwar, Q.A.J. Shamshuddin, U.A. Naher, and O. Radziah. 2015. Management of Acid Sulfate Soils for sustainable rice cultivation in Malaysia. "Crop Production and Global Environmental Issues" Editor: Khalid Ul Rehman Hakeem.Springer International, Switzerland in March, 2015(Accepted)
	Book Chapter	Panhwar, Q.A., Shamshuddin J., Naher, U.A. and Radziah, O. 2013. Phosphate Solubilization Mechanisms in Soil by Phosphate-Solubilizing Bacteria. In: Advances in Tropical Soil Science, volume 2. Hamdan, J. and Shamshuddin J. (Eds). Malaysia,pp. 149-168.
	Book Chapter	Naher, U.A. Radziah, O. and Panhwar, Q.A. 2013. Biofertilizer for Improved Plant Growth and Soil Fertility. In: Advances in tropical soil science, volume 2. Hamdan, J. and Shamshuddin J. (Eds). Malaysia, pp. 229-244.
	Book Chapter	Radziah, O., Naher, **U.A.,** Panhwar, Q.A. and Asilah, A.M. 2012. Potential of microbes as N and P biofertilizer in rice cultivation. In: Advances in tropical soil science volume 1. Hamdan, J. and Shamshuddin J. (Eds). Malaysia. p 222-247. (ISBN 978-967-344-258-4).
	Patent:	"Biofertilizer Composition"-PI2012000897
11.	**Award (if any)**	
	1	Awarded First Prize in **ISTIC** (International Science, Technology and Innovation Centre for South-South Cooperation Under The Auspices of UNESCO) – **TWAS** (Academy of Sciences for Developing World) Competition. Held on 20-21 October,

		2012, Penang, Malaysia.
	2	Awarded "Gold medal" for the Invention of "Alleviation of aluminum toxicity in rice cultivated on acid sulfate soils by biological process" on 26 to 28th September, 2014, in Malaysian Innovation Expo (MIExpo 2013) at Universiti Putra Malaysia, Serdang, Malaysia
	3	Awarded "Bronze medal" for the Invention of "Alleviation of aluminum toxicity in rice cultivated on acid sulfate soils by biological process" on 26 to 28th September, 2013, in Malaysian Innovation Expo (MIExpo 2013) at Universiti Putra Malaysia, Serdang, Malaysia.
	4	Awarded Silver medal in "Invention, Research and Innovation Exhibition 2012 (PRPI)'' for Research project entitled UPM Biogreen Biofertilizer for efficient production of rice and vegetable. University Putra Malaysia, Malaysia
	5	Awarded Silver medal in "Invention, Research and Innovation Exhibition 2009 (PRPI)'' for Research project entitled Rhizospheric Sugars for Enhanced N_2 Fixation in Rice. University Putra Malaysia, Malaysia.
	6	Awarded Post Graduate Fellowship from "Third World Organization for Women in Science (TWOWS)" Trieste – Italy, to pursue PhD in Universiti Putra Malaysia.
	7	Awarded for excellent participation in "The Agriculture Congress 2006". For my excellent presentation of the research paper entitled "Isolation of Diazotrophs from Different Soils of Tanjong Karang Rice Irrigation Project" held at Malaysia. Agriculture congress.

12. **Employment**

	Designation	**Institute/Organization**	**Duration**	**Responsibility/Duties/Field**
	Principle Scientific Officer (Soil Science Division)	Bangladesh Rice Research Institute, Gazipur, Bangladesh	December, 2014 to till	Conducting research, writing report and scientific paper, Office management.
	Senior Scientific Officer (Soil Science Division)	Bangladesh Rice Research Institute, Gazipur, Bangladesh	July 2006 to 2014	Conducting research, writing report and scientific paper, Office management.
	Postdoctoral Researcher	Institute of Tropical Agriculture	May2011 to May 2013	Conducting research, Project dealing, Guiding student, writing paper.
	Scientific Officer (Soil Science Division)	Bangladesh Rice Research Institute, Gazipur, Bangladesh	August 1998 to June 2006	Conducting research, writing report and scientific paper,
	August 1998 to June 2006	Bangladesh Agricultural Development Corporation	March1998 to August 1998	Office management