



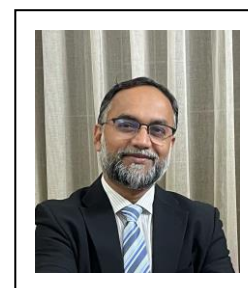
CV of A. M. Shahabuddin, PhD

Interest

I am interested in working on advanced aquaculture technology, fish and shellfish nutrition, climate change, and sustainable fisheries development. My future interest is to develop myself as a scientist in the sector of aquaculture and fisheries to contribute to the development and conservation of the sector.

Personal Information

Designation	Professor
Nationality	Bangladeshi
Permanent Address	Department of Aquaculture, Faculty of Fisheries & Aquaculture, Sher-e-Bangla Agricultural University (SAU), Sher-e-Bangla Nagar, Dhaka-1207 Email: amsuddin@yahoo.com , amsu.aqua@sau.edu.bd
Main expertise	Aquaculture, Feed, Nutrition, Mericulture, Waste management, Climate change mitigation
Date of Birth	30 December 1978
Gender	Male
Country-wise work experience	Bangladesh, Thailand, Japan, Mozambique



Educational Background

Name of Degree and Major	Name of University/ Board	Duration of course	Year of Passing	Result/ Grade
Postdoc	Mie University, Japan	5 months	2017	Excellent
PhD	Graduate School of Bioresources, Mie University, Japan	4 Years	2016	Excellent [awarded for outstanding performance]
MS in Aquaculture Technology	Aquaculture and Aquatic Resources Management (AARM) Asian Institute of Technology (AIT), Thailand	2 Years	2006	CGPA 3.83 [awarded for outstanding performance]
MS in Fisheries Management	Bangladesh Agricultural University, Bangladesh	1 & ½ years	2004	Grade-A
BSc in Fisheries	Bangladesh Agricultural University, Bangladesh	4 years	2000	1st class
Higher Secondary Certificate (HSC)	Dhaka City Collage Dhaka, Bangladesh	2 Years	1995	1st division
Secondary School Certificate (SSC)	M.D.C. Model Institute Dhaka, Bangladesh	10 Years	1993	1st division



PhD thesis title: Enzyme treated Nori (*Pyropia yezoensis*) as a new feed ingredient for aquatic animals in closed recirculating system

MS thesis title: Use of Rice Straw as a Substrate for periphyton based aquaculture system

MS thesis title: Assessment of distribution, abundance and standing crops of green mussel, oyster and clam along the coast of Bay of Bengal

Service Experience

Designation	From	To	Period	Appointed Organization
Professor	Sept/2020	To date	.4.5 years	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
National Specialist- Seaweed	Sept/2024	Dec/2024	4 months	Food and Agricultural Organization of the United Nations (FAO), Bangladesh
National Specialist – Fisheries	Jan/2021	June/2024	3 years	Food and Agricultural Organization of the United Nations (FAO), Bangladesh
National Consultant - Seaweed	Aug/2019	Dec/2020	1.5 years	Food and Agricultural Organization of the United Nations (FAO), Bangladesh
Associate Professor	Sept/2016	Sept/2020	5 years	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
Postdoc researcher	October 2016	Feb. 2017	5 months	Mie University, Japan in collaboration with JICA
Researcher	Oct/2013	Sept/2016	3 years	Graduate School of Bioresources, Mie University, Japan
Research Student	April/2013	Sept/2013	6 months	Graduate School of Bioresources, Mie University, Japan
Research Student	Oct/2012	March/2013	6 months	Centre for International Education and Research (CIER), Mie University, Japan
Assistant Professor	Nov/ 2010	September 2016	6 years	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
Lecturer	March 2007	November 2010	3.5 years	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
Intern	August 2006	February 2007	6 months	United Nations Development Programme (UNDP), Bangladesh
MS research student	March 2005	April 2006	1 year	Collaborative Research Support Program (CRSP)/USAID, Thailand
Research assistant	June 2003	July 2004	1 year	Support for University Fisheries Education and Research (SUFER) project/DFID, Bangladesh
Research fellow	January 2003	March 2003	3 months	Norwegian Agency for Development Co-operation (NORAD) project, Bangladesh

Expert

- Design and Development of Recirculating Aquaculture System (RAS), Microbial-based Biofloc technology (BFT), In-pond Raceway System (IPRS)
- Operation and maintenance of indoor intensive aquaculture technologies, mariculture of sea cucumber, clam, mussel, IMTA
- Feed formulation and aquaculture nutrition, nutritional experimental design formulation
- Seaweed farming, processing, product development and seaweed extract preparation
- Fish offal management for value-added products development



Administrative Positions

- Dean, Faculty of Fisheries, Aquaculture and Marine Science, Sher-e-Bangla Agricultural University, Bangladesh
- Chairman, Department of Aquaculture, Faculty of Fisheries, Aquaculture and Marine Science, Sher-e-Bangla Agricultural University, Bangladesh
- Assistant Proctor, Sher-e-Bangla Agricultural University, Bangladesh

Present research

- Digitalization of Recirculating aquaculture System Laboratory through adopting IOT in Aquaculture
- Intensive Eel farming and breeding technology
- Integrated Mangrove Shrimp (IMS) farming system in Bangladesh, World Bank
- Development of low-cost recirculating aquaculture system (RAS) in Bangladesh, KGF
- Biofloc technology (BFT) as an intensive fish culture technology for Bangladesh.
- Assessment of carbon sources for Biofloc technology for common fish species
- Assessment of fish market waste as a protein source for the aquaculture operation and development of the environmentally friendly processing technology funded by the Ministry of Science and Technology, Government of Bangladesh.
- Assessment of poultry market waste as a protein source for the aquaculture operation and development the environmentally friendly processing technology funded by the Ministry of Science and Technology, Government of Bangladesh.
- DNA barcoding of aquatic species in the Saint Martin Island of Bangladesh, funded by Bangladesh Agricultural Research Council, Bangladesh.

Scholarships and Award

Name of award	Institute/Org. /Country	The reason for which the award is dedicated	Year
President Commendation Award	Mie University, Japan	For excellent academic and research performance	2016
Young researcher award	Oceanography and Marine biology 2016, Australia	For outstanding research performance	2016
Young researcher award	Mie University	Participation in the overseas conference	2016
Conference grant award	Regional Forum on Climate Change (RFCC)	For Participating RFCC conference at AIT, Thailand	2015
Monbukagakusho Scholarship	Mie University	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Government of Japan	2012



The Chintana Boonthamjinda Memorial Prize	Asian Institute of Technology (AIT), Thailand	For outstanding academic performance	2006
The Netherlands Government Scholarship	Asian Institute of Technology (AIT)	For studying MS in Aquaculture at the Asian Institute of Technology, Thailand	2004-2006
Nippon Foundation, Japan Scholarship	Nippon Foundation, Japan	For outstanding academic achievements during the study of BSc (Hons.) at BAU	2001-02
University Merit Scholarship	Government of Bangladesh	For outstanding academic achievements during the study of BSc (Hons.) at BAU	1997-2002

Publications

Thesis

- 1 Enzyme treated Nori (*Pyropia yezoensis*) as a new feed ingredient for aquatic animals in closed recirculating system, Graduate School of Bioresources, Mie University, Japan
- 2 Use of Rice straw as a substrate for periphyton based aquaculture system. Aquaculture and Aquatic Resources Management, Asian Institute of Technology (AIT), Thailand
- 3 Assessment of distribution, abundance and standing crops of green mussel, oyster and clam along the coast of Bay of Bengal. Bangladesh Agricultural University, Bangladesh

Article published in peer reviewed Journals

- 1 Wahab, M.A., A. M. Shahabuddin, M. A. Salam, and M. A. R. Hossain, 2004. Assessment of distribution, abundance and standing crops of green mussel (*Perna viridis*), clam (*Meretrix meretrix*) and oyster (*Crassostrea* spp.) and their harvest as a potential alternative livelihood option for coastal communities, *Bangladesh journal of Fisheries (Special issue with Abstract and livelihood impact)*, 27: 35-36.
- 2 Shahabuddin, A. M., K. A. Habib, M. A. Affan, M. R. Ahmed, M.S. Yasmin, 2007. Nutrition requirements of common carp (*Cyprinus carpio*) culture in Bangladesh, *Bangladesh Journal of Progressive Science and Technology*, 5(2): 417-420.
- 3 Ahamed, H, A. M. Shahabuddin, M. Z. F Ahmed, M. A. Wahab, and K.A. Habib, 2008. Polyculture of carps with small indigenous species (SIS) mola at Gazipur area of Bangladesh, *Journal of Sher-e-Bangla Agricultural University*, 2(1): 37-45.



- 4 Ali, M. H., Rashid, M. H., Islam, S. R. Sarker, and **A. M. Shahabuddin**, 2008. Effect of stocking density on growth and production performance of tilapia (*Oreochromis niloticus*) in ponds, *International Journal of Bioresearch*, 4 (3), 33-38.
- 5 **Shahabuddin, A.M.**; M.A. Wahab, M.I. Miah Habib, K.A. and M.A. Salam. 2010. Abundance, distribution and culture potentials of three commercially important mollusks species along the coast of Bay of Bengal, *Research Journal of Agriculture and Biological Science*, 6(6):756-762
- 6 Ahmed, R.; **A.M. Shahabuddin**, M.A.B. Habib, M.S. Yasmin, 2010 Socio-economic and environmental impact of aquaculture in the district Naogaon, Bangladesh. *Research Journal of Fisheries and Hydrobiology*, 5(2): 56-65
- 7 Rai, S, **A.M. Shahabuddin**, Y. Yi, M.A. Wahab, A.N. Bart and J.S. Diana, 2012. Effect of various loading rates of rice straw on physical, chemical and biological parameters of water, *Journal of fisheries and Aquatic Science*, 7(6): 364-378. Thomson ISI, Scopus index journal, *Journal impact: 0.63*, DOI: [10.3923/jfas.2012.364.378](https://doi.org/10.3923/jfas.2012.364.378)
- 8 Manas, K.S., D. Utpol, R.J. Sultana, **A.M. Shahabuddin**, A.K.M. Mohiuddin, 2012. Livelihood analysis of dry fish producers and assessment of the use of harmful preservative in dry fish in the nazirertek region of Bangladesh, *Journal of Science and Technology*, 2 (1): 45-54
- 9 **Shahabuddin, A.M.**, Y. Yi, D.P. Thakur and J.S. Diana, 2012. Use of rice straw mat as substrate for aquaculture system. *World Journal of Fish and Marine science*, 4 (6): 577-585, DOI: 10.5829/idosi.wjfms.2012.04.06.6515
- 10 Nahid S.A.A., E. Karim, M.R. Hasan, **A.M. Shahabuddin**, M.A.B. Bhuyasystems and comparative advantages of tilapia over other commercial aquaculture species in Bangladesh, *Bangladesh Journal of Progressive Science and Technology* 1(1): 089-092
- 11 M.M. Parvez, M.A.B. Bhuyain, **A.M. Shahabuddin**, A.R. Farque and A.S. Shine, 2013. Environmentally sustainable control measure of *Argulus* in freshwater ponds in Bangladesh, *International Journal of Sustainable Agricultural Technology* 9 (1): 64-70.
- 12 M.I. Hossain, **A.M. Shahabuddin**, M.A.B. Bhuyain, M.A. Mannan, M.N.D. Khan, R. Ahmed, 2013. Scaling up of stocking density of tiger shrimp (*Penaeus monodon*) under improved farming system in Khulna region of Bangladesh, *American Journal of Experimental Agriculture* 3(4): 839-848, DOI : 10.9734/AJEA/2013/4609
- 13 S.A.A. Nahid, Patrik Henriksson, **A.M. Shahabuddin**, E. Karim, R. Ahmed, 2013. Freshwater prawn *Macrobrachium rosenbergii* post larvae (PL) collection from nature in Bangladesh. *Nepalese Journal of Aquaculture and Fisheries*, 1 (1): 150-164.
- 14 A. Rico, T.M.Phu, K. Satapornvanit, J. Min, **A.M. Shahabuddin**, P.J.G. Henriksson, F. Murray, A. Dalsgaard, P.J. van den Brink, 2013. Use of veterinary medicines, feed



additives and probiotics in four major seafood commodity-groups farmed in Asia: results of a field survey, *Aquaculture*, 412-413: 231-243.
<https://doi.org/10.1016/j.aquaculture.2013.07.028>

- 15 Moe Thidar Oo, **A. M. Shahabuddin**, Dharendra P Thakur, Aye Aye Mon, Amaranantne Yakupitiyage, Amrit N Bart, Ram C Bhujel and Jim S Diana, 2014. Optimization of phosphorus fertilizer in supplemental feed-fed based Nile tilapia (*Oreochromis niloticus*) ponds. *Aquaculture Research*, 46 (12): 2859–2870. <https://doi.org/10.1111/are.12444>,
- 16 M.R. Haque, M.S. Rahman, M.S. Islam, M.M. Ali, M.R. Islam and A.M. Shahabuddin. 2015. Production and Growth Performances of Carps in Different Stocking Densities of Polyculture. *World Journal of Zoology*, 10 (4): 247-251, DOI: 10.5829/idosi.wjz.2015.10.4.95272
- 17 **A.M. Shahabuddin**, M.N.D. Khan, N. Arisman, D. Saha, T. Araki, T. Yoshimatsu. 2015. Use of *Pyropia* spheroplasts as a live food substitute for culturing Japanese short-neck clam *Ruditapes philippinarum*, *Aquaculture Science*, 53: 195-197, DOI: 10.13140/RG.2.1.2293.9363
- 18 **A.M. Shahabuddin**, M.N.D. Khan, D. Saha, E. Ayna, K. Wonkwon, W.W. Murry, T. Yoshimatsu and T. Araki. 2015. Length-weight Relationship and Condition Factor of Juvenile Nile Tilapia *Oreochromis niloticus* (Linnaeus 1758) Fed Diets with *Pyropia* spheroplasts in Closed Recirculating System, *Asian Fisheries Science*, 28:117-129. <https://doi.org/10.33997/j.afs.2015.28.3.003>
- 19 **A.M. Shahabuddin**, Mohammad Nakib Dad Khan, Koji Mikami, Toshiyoshi Araki and Takao Yoshimatsu. 2017. Effects of red alga *Pyropia* spheroplasts diet on growth, feed utilization and body composition of Sea Cucumber, *Apostichopus japonicus* (Selenka). *Aquaculture Research*, 1-10, <https://doi.org/10.1111/are.13350>
- 20 **A.M. Shahabuddin**, M.N.D. Khan, T. Yoshimatsu. Present Status of Japanese Sea Cucumber *Apostichopus japonicus* - A Review of Fisheries, Aquaculture and Trade, *Aquaculture Science* (accepted), (*A journal of Japanese Society for Aquaculture Science*)
- 21 Debasish Saha, **A. M. Shahabuddin**, Takashi Mishima and Takao Yoshimatsu. Effects of different levels of vitamin E on lysozyme activity of Nile tilapia. *Journal of Aquaculture Science*, 2017: 10(4): 710-720.
<https://doi.org/10.11233/aquaculturesci.65.339>
- 22 Ekrem Ayna, Kim Wonkwon, AM Shahabuddin, Toshiyoshi Araki and Takao Yoshimatsu. 2019. Effects of microbial fermented non-dairy creamer as an aquaculture feedstuff for Japanese red sea bream *Pagrus major*: A preliminary study. *International Journal of Fisheries and Aquatic Studies*; 7(4): 187-194. DOI: <https://dx.doi.org/10.22271/fish>
- 23 Kim Wonkwon, Ekrem Ayna, AM Shahabuddin, Toshiyoshi Araki and Takao Yoshimatsu. 2019. Negative effects of full spectrum light exposure along with UV radiation on survival and reproduction of Cladocera *Daphnia magna* (Straus, 1820).



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DOI: <https://dx.doi.org/10.22271/fish>

- 24 Albert V. Manuel, A. M. Shahabuddin, Debasish Saha, Miguel H. Chele, Kelvin O. A. da Conceicao, Naoaki Tsutsui and Takao Yoshimatsu. 2019. Growth and Feed Utilization of Juvenile Nile Tilapia Fed with Boiled Moringa oleifera Meal Diets: A Preliminary Report. Journal of International Cooperation Agricultural Development, 2019; 17: 8–13. <https://doi.org/10.1111/are.13350>
- 25 Thi Cam Tu Phan, Haruna Oka, A. M. Shahabuddin and Takao Yoshimatsu. 2017. Impact of salinity and turbidity changes on survival and growth of Sargassum fusiforme germings. Aquaculture Science, 2017: 65(4) 331–338. <https://doi.org/10.11233/aquaculturesci.65.331>
- 26 Abu Hena Mustafa Kamal, Ann Sinden, Mohd Hanafi Idris, Abdulla-Al-Asif, Hadi Hamli, Najiah Musa1, Rumeaida Mat Piah, Mohd Effendy Abd Wahid, Roslizawati Ab Lah, Nadiyah Wan Rasdi, Muyassar H. Abualreesh, Md Khurshid Alam Bhuiyan & **A.M. Shahabuddin**. 2022. Diversity of Fisheries in Sarawak, Northwest Borneo: Present Status and Conservation Issues. Borneo Journal of Resource Science and Technology, 12(1): 32-51. DOI: <https://doi.org/10.33736/bjrst.4651.2022>
- 27 Md Mahmudul Kabir Peyal; Afrin Hossain Puspita; Sabrina Alam; Yousuf Mahbulul Islam; **A. M. Shahabuddin**; Mahady Hasan. 2023. A Sustainable Approach to Establish Industry-Academia Collaboration by Engaging the Rural Community for the Developing Countries. Australian Association of Engineering Education Conference.Griffith University, Gold Coast, Qld, Australia 114 p.
- 28 **Shahabuddin, A.M.**, Al-Munim, S. M., Hossain, M. S., Anny, S.A., Hemal, S., Rifat, A.A.R., Sutrodhar, S. 2024. Feather Meal as a Sustainable Protein Source for Aquaculture in Bangladesh: Economic Implications. Journal of Aquatic Research and Sustainability, 1(1):21-28
- 29 **Shahabuddin, A. M.** Md. Abdul Hannan, Md. Foysul Hossain, Shahrear Hemal, Runi Khanom, Tahmina Afroz and Ahmed Mustafa. 2024. Evaluation of ethanolic extract of red seaweed (*Gracelariopsis lamaneiformis*) on growth and hematological parameters of Nile tilapia (*Oreochromis niloticus*). *Aquaculture, Fish and Fisheries*. <https://doi.org/10.1002/aff2.70011>
- 30 Mashequl, S. B., Muttakinul, M. I, Aktia, A., Marufa, M.K., Shahabuddin, A. M. 2024. Molecular identification, histopathology, and antibiotic susceptibility profiling of Aeromonas veronii strains isolated from Oreochromis niloticus in Bangladesh. *Veterinary Medicine and Science*, 10 (6): 1-12, doi.org/10.1002/vms3.70103



Book

- 31 Ahmed, K. U. **A. M. Shahabuddin**, A. Akkas Ali, M. A. Alim. 2020. Seaweed cultivation, Farmers Training Manual. Bangladesh Agricultural Research Council, Farmgate, Dhaka, pp 49.
- 32 Ahmed, K. U. **Shahabuddin**, **A. M.** Ali, M. A. Bokhtiar, S. M., Salam, M. A., Alim, M. A., Bhuiyan, M. S. Mashuk, O. F., Rahman, M. M. 2021. Training on Seaweed culture, processing, marketing and field demonstration. Bangladesh Agricultural Research Council, Farmgate, Dhaka. pp 101
- 33 Hannan, M. A., K. A. Habib, **A. M. Sahabuddin**, M. A. Haque, M. B. Munir. 2022. Post-Harvest Processing, Packaging and Inspection of Frozen Shrimp: A Practical Guide, Springer, Singapore

Abstract published in conference and seminar

- 1 Wahab, M. A., M. Mahfujul Haque, Sk. Ahmad-Al-Nahid and **A.M. Shahabuddin**, 2012. Life Cycle Assessment (LCA) for Energy Cost, and Food Safety Issues in Seafood Value-chain in Bangladesh, Journal of Bangladesh Agricultural University Research System.
- 2 **Shahabuddin**, **A.M.**, J. H. Clausen, A. Dalsgaard, M. A. Wahab, M. M. Haque, F. Murry, and D.C. Little, 2012 Assessment of the use of different types of chemicals and probiotics in the prawn and shrimp farming system in Khulna region of Bangladesh, World Aquaculture Society (AQUA 2012), Prague, Czech Republic.
- 3 Dalsgaard A., Popovic M., Murray F., Weeks J., Karunasagar I., Wahab M. A., Phuong N.T., Ping L., Satapornvanit K., Phu T.M., **Shahabuddin A.M**, Kang, L. and Clausen, J.H. 2012. Food safety of cultured pangasius, shrimp, and tilapia imported into the EU from main Asian producers, World Aquaculture Society (AQUA 2012), Prague, Czech Republic.
- 4 M.N.D. Khan, **A.M. Shahabuddin**, T. Araki, T. Yoshimatsu. Culture of Japanese short neck clam by feeding *Porphyra* spheroplasts diets in closed recirculating system, Fisheries Society of Japan, Hokkaido, 2013
- 5 **A.M. Shahabuddin**, M.N.D. Khan, T. Araki, T. Yoshimatsu Supplemental effect of *Pyropia* spheroplasts on growth of Japanese sea cucumber *Apostichopus japonicus* in closed recirculating system, Annual conference of the Aquaculture Society of Japan, Hiroshima, Japan, May, 2014
- 6 M.N.D. Khan, **A.M. Shahabuddin**, T. Araki, T. Yoshimatsu. Rearing of juvenile Japanese scallop by feeding enzyme treated nori- a preliminary study, Annual conference of the Fisheries Society of Japan, Tokyo, March 27-31, 2015.
- 7 **A.M. Shahabuddin**, M.N.D. Khan, T. Araki, T. Yoshimatsu. Preliminary assessment of *Pyropia* spheroplasts (PS) as feed ingredients for Nile tilapia (*Oreochromis niloticus*) in closed recirculating system, Annual conference of the Fisheries Society of Japan, Tokyo, March 27-31, 2015.
- 8 **A.M. Shahabuddin**, M.N.D. Khan, N.Arisman, D. Saha, T. Yoshimatsu and T. Araki: Use of *Pyropia* spheroplasts as a live food substitute for culturing Manila clam, *Ruditapes philippinarum*. The Third International Symposium on Manila (Asari) Clam, Tsu, Japan, 2015
- 9 **A.M. Shahabuddin**, T. Yoshimatsu, Present status and future prospect of Japanese sea cucumbers: impacts of climate change, Regional Forum on Climate Change (RFCC) – Low



Carbon and Climate Resilient Societies: Bridging Science, Practice, and Policy, Asian Institute of Technology (AIT), Klong Luang, Pathumthani 12120, Thailand, July 1-3, 2015.

- 10 **A.M. Shahabuddin**, M.N.D. Khan, T. Yoshimatsu and T. Araki, *Pyropia* spheroplasts (PS) as new feed ingredient for culturing Japanese sea cucumber (*Apostichopus japonicus*), Unique Conferences Canada, Toronto, Canada, 2015
- 11 **A.M. Shahabuddin** and T. Yoshimatsu, Use of single cell red alga as feed for Japanese sea cucumber *Apostichopus japonicus* in closed recirculating system, Oceanography 2016, Brisbane, Australia, 2016

Achievement of administrative post

- Dean, Faculty of Fisheries, Aquaculture and Marine Science, Sher-e-Bangla Agricultural University, Dhaka
- Chairman, Department of Aquaculture, Faculty of Fisheries, Aquaculture and Marine Science, Sher-e-Bangla Agricultural University, Dhaka
- Assistant proctor, Sher-e-Bangla Agricultural University
- Elected executive committee member, Bangladesh Agricultural Extension Network, Dhaka
- Member, Krishibid Institute of Bangladesh (KIB), Dhaka, Bangladesh

Development of Technology and Design of the System

- **Developed energy-efficient low-cost Recirculating Aquaculture System (RAS) for Indoor Intensive Aquaculture System in Bangladesh**
- **Design a layout of a gravity flow-based energy-efficient indoor Recirculating Aquaculture System (RAS)**
- **Development of Integrated Mangrove Shrimp (IMS) Shrimp farming system for Bangladesh**
- **Developed Biofloc Aquaculture System (BFT) for Tilapia, Catfish, Finfish and vnamei Shrimp**
- **Design and development of turbine-based mechanical filter (Drum filter) for solid waste separation from Recirculating Aquaculture System (RAS)**
- **Development of Seaweed Culture and processing techniques for Bangladesh**
- **Development of Tank-based Intensive culture of Mud Eel (*Monopterus albus*) using feed**
- **Development of Value-added products from Fish market waste as an alternative to Fishmeal**
- **Development of Value-added products from Poultry market waste as an alternative to Fishmeal**
- **Development of Value-added products from Trawler waste as an alternative to Fishmeal**
- **Development of an intensive culture system for Japanese Sea cucumber (*Apostichopus japonicus*) in the Recirculating Aquaculture System (RAS)**
- **Development of commercial feed for Japanese Sea Cucumber (*Apostichopus japonicus*) using seaweed as a major ingredient**
- **Development of a tank-based intensive cultivation system of shellfishes**

Declaration

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.

A. M. Shahabuddin



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