

DINESH CHANDRA SHAHA

Associate Professor

Department of Fisheries Management
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Biography

Date of Birth: 01 September, 1978

Place of Birth: Rajshahi, Bangladesh

National ID: 8213301180

Passport: A04090666

Nationality: Bangladeshi (By Birth)

Sex: Male

Marital Status: Married to Dr. Sampa Rani Kundu



Education

- April 2015 to March 2017 Postdoctoral Researcher, Research Institute of Oceanography, School of Earth and Environmental Science, Seoul National University, Seoul, Korea.
- March 2011 to Feb., 2012 Postdoctoral Researcher, Research Institute of Oceanography, Seoul National University, Seoul, Korea.
- 2011 PhD in Marine Science, Chonnam National University, Gwangju, Korea, February, (4.04 out of 4.5).
- June 2004 M.S. in Fisheries Management, Bangladesh Agricultural University, Mymensingh, (First class, CGPA 3.59 out of 4).
- October 2002 B.Sc. in Fisheries (Hons.), Bangladesh Agricultural University, Mymensingh, (First class 4th in order of merit).
- 1996 H.S.C. Rajshahi Government City College, Rajshahi (First class).
- 1994 S.S.C. Kaligram Dodanggi High School, Naogaon, (First clas).

Professional & Research Experience

- 22 December 2017 to present Associate Professor, Department of Fisheries Management, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur-1706, Bangladesh, Taught the subject "Oceanography & Marine Biology; Fisheries Management and Conservation; Estuarine and Marine Ecology" at undergraduate level and "Estuarine and Coastal Dynamics" at MS level.
- 21 December 2011 to 21 December 2017 Assistant Professor, Department of Fisheries Management, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur-1706, Bangladesh. Taught the subject "Oceanography & Marine Biology; Aquatic Environment and Pollution" at undergraduate level and "Estuarine and Coastal Dynamics" at MS level
- October 2011 to December 2011 Assistant Professor, Department of Marine Fisheries and Oceanography, Patuakhali Science and Technology University, Dumki, Patuakhali 8602, Bangladesh. Taught the subjects "Oceanography and Coastal Zone Management" at undergraduate levels.

September 2006 - February 2011	Graduate Ph.D. Research with Advisor Dr. Yang-Ki Cho, Department of Oceanography, Chonnam National University, Gwangju, Korea. <i>Dissertation title:</i> A study on the variability of salt transport in the Sumjin River Estuary using analytical and numerical (FVCOM) models.
June 2004 – June 2006	Aquaculture Extension Officer, Department of Fisheries, Ramna, Dhaka, Bangladesh.
June 2003 – May 2004	Graduate M.S. Research with Advisor Dr. Somen Dewan, Department of Fisheries Management, Bangladesh Agricultural University and internship work at Rangpur Dinajpur Rural Service (RDRS) funded by Department for International Development (DFID), United Kingdom.
RESEARCH INTEREST	Aquatic Ecology; <i>In situ</i> observation of estuarine, bay, and coastal processes; numerical modeling (FVCOM) of estuarine, bay, and coastal hydrodynamic processes; Limnology; water quality modeling (MOHID) for estuary and coastal system.
TECHNICAL EXPERIENCES	Experience in numerical modeling (FVCOM), MOHID water Modeling System and model outputs to interpret oceanographic processes, basic knowledge on ROMs and knowledge on programming R, SPSS (version 18 and 25), Fortran, graphics (Matlab), Grapher (2D) and Surfer (3D).

Peer-Reviewed SCI Journal Articles -34

- Hasan, J., **Shaha, D.C.**, Ahmed, M., Haque, S.M., Haque, F., Ahsan, M.E., Ahmed, S., Hossain, M.I. and Salam, M.A., **2022**. Outwelling of nutrients into the Pasur River estuary from the Sundarbans mangrove creeks. *Heliyon*, p.e.12270, <https://doi.org/10.1016/j.heliyon.2022.e12270>.
- Shaha, D.C.**, Hasan, J., Kundu, S.R. et al. Dominant phytoplankton groups as the major source of polyunsaturated fatty acids for hilsa (*Tenualosa ilisha*) in the Meghna estuary Bangladesh. *Sci Rep* **12**, 20980 (**2022**). <https://doi.org/10.1038/s41598-022-24500-2>.
- Hasan, J.; **Shaha, D.C.**; Kundu, S.R.; Yusoff, F.M.; Cho, Y.-K.; Haque, F.; Salam, M.A.; Ahmed, S.; Wahab, M.A.; Ahmed, M.; et al. Phytoplankton Community in Relation to Environmental Variables in the Tidal Mangrove Creeks of the Pasur River Estuary, Bangladesh. *Conservation*, **2022**, 2, 587–612. <https://doi.org/10.3390/conservation2040039>.
- Shaha, D. C.**, Ahmed, S., Hasan, J., Kundu, S. R., Haque, F., Rahman, M. J., Nahiduzzaman, M., Wahab, M. A. **2022**. Fish Diversity in Relation to Salinity Gradient in the Meghna River Estuary, Bangladesh. *Conservation*, 2(3), 414-434, <https://doi.org/10.3390/conservation2030028>.
- Islam, N., **Shaha, D. C.**, Hasan, J., Asad, M. H. A., Salam, M. A., Khan, M., Kundu, S. R., Ahmed, M. **2022**. Heavy Metal Pollution Reduced the Potentiality of Pen Culture in the Wetland Aquaculture in an Urban Area of Bangladesh. *Conservation*, 2(1), 68-79, <https://doi.org/10.3390/conservation2010006>.
- Shaha, D. C.**, Cho, Y. K., Kundu, S. R., Hasan, J., Haque, F., Salam, M. A. **2022**. The calculation of flushing time for the upper Pasur River Estuary, Bangladesh. *Terrestrial, Atmospheric and Oceanic Sciences*, 33(1), 1-15, <https://doi.org/10.1007/s44195-022-00015-1>.
- Shaha, D. C.**, Asad, M. H. A., Hasan, J., Islam, N., Haque, F., Mazumder, S. K. **2022**. Effects of Napier Grass (*Pennisetum purpureum*) on Organic Carp Fish Production. *Egyptian Journal of Aquatic Biology and Fisheries*, 26(4), 705-725, DOI: 10.21608/EJABF.2022.254233.
- Salam, M. A., Rahman, M. A., Paul, S. I., Islam, F., Barman, A. K., Rahman, Z., **Shaha, D. C.**, Rahman, M. M., Islam, T. **2021**. Dietary chitosan promotes the growth, biochemical composition, gut microbiota, hematological parameters and internal organ morphology of juvenile *Barbonymus gonionotus*. *PloS one*, 16(11), DOI: 10.1371/journal.pone.0260192.
- Chakraborty, P., Islam, M.R., Hossain, M.A., Fatema, U.K., **Shaha, D.C.**, Sarker, M.S.A. and Akter, T. **2021**. Earthworm meal (*Perionyx excavatus*) as an alternative protein source to fish meal in feed for juvenile butter catfish (*Ompok pabda*). *Aquaculture International*, pp.1-11. <https://doi.org/10.1007/s10499-021-00737-y>
- Salam, M.A., Alam, M.A., Paul, S.I., Islam, F., **Shaha, D.C.**, Rahman, M.M., Khan, M.A.R., Rahman,

- M.M., Islam, A.K.M.A., Ahamed, T. and Rahman, G.K.M.M., **2021**. Assessment of Heavy Metals in the Sediments of Chalan Beel Wetland Area in Bangladesh. *Processes*, 9(3), p.410.
<https://doi.org/10.3390/pr9030410>.
- 11) Nishad, N., Kubra, J., Sultana, T., Mazumder, S.K., Basak, L.R. and **Shaha, D.C., 2021**. Gut contents and trophodynamics of riverine catfish *Rita rita* (Hamilton 1822) inhabiting Bangladesh waters. *The Egyptian Journal of Aquatic Research*. <https://doi.org/10.1016/j.ejar.2021.03.004>
 - 12) Islam, F., Salam, M.A., Rahman, M.A., Paul, S.I., Das, T.R., Rahman, M.M., **Shaha, D.C.**, Gupta, D.R., Alam, M.S. and Islam, T., **2021**. Plant endophytic yeasts *Pichia fermentans* and *Meyerozyma caribbica* improve growth, biochemical composition, haematological parameters and morphology of internal organs of premature *Barbonymus gonionotus*. *Aquaculture Reports*, 19, p.100575.
<https://doi.org/10.1016/j.aqrep.2020.100575>
 - 13) Salam, M.A., Islam, M.A., Paul, S.I., Rahman, M.M., Rahman, M.L., Islam, F., Rahman, A., **Shaha, D. C.**, Alam, M.S. and Islam, T., **2021**. Gut probiotic bacteria of *Barbonymus gonionotus* improve growth, hematological parameters and reproductive performances of the host. *Scientific reports*, 11(1), pp.1-24. doi: 10.1038/s41598-021-90158-x. PMID: 34021215.
 - 14) Sadia, M. A., Hossain, M. A., Islam, M. R., Akter, T., & **Shaha, D. C. 2020**. Growth and reproduction performances of earthworm (*Perionyx excavatus*) fed with different organic waste materials. *Journal of Advanced Veterinary and Animal Research*, 7(2), 331, DOI:10.5455/javar.2020.g426.
 - 15) **Shaha, D. C.**, Cho, Y.-K., Kim, B. G., Sony, M. R. A., Kundu, S. R., and Islam, M. F. **2017**. Spatiotemporal variation of Van der Burgh's coefficient in a salt plug estuary, *Hydrol. Earth Syst. Sci.*, 21, 4563-4572, <https://doi.org/10.5194/hess-21-4563-2017>.
 - 16) **Shaha, D. C.** and Cho, Y.-K. **2016**. Salt plug formation caused by decreased river discharge in a multi-channel estuary. *Rep.* 6, 27176; doi: 10.1038/srep27176.
 - 17) Cho, Y.-K., Seo, G.-H., Kim, C.-S., Choi, B.-J, **Shaha, D. C., 2013**. Role of wind stress in causing maximum transport through the Korea Strait in autumn, *Journal of Marine Systems* 115–116 (2013) 33–39.
<https://doi.org/10.1016/j.jmarsys.2013.02.002>
 - 18) **Shaha, D. C.**; Cho, Y.-K., and Kim, T.-W., **2013**. Effects of river discharge and tide driven sea level variation on saltwater intrusion in Sumjin River estuary: An application of finite-volume coastal ocean model. *Journal of Coastal Research*, 29(2), 460–470. Coconut Creek (Florida).
<https://doi.org/10.2112/JCOASTRES-D-12-00135.1>
 - 19) **Shaha, D. C.**; Cho, Y.-K., and Kim, T.-W., **2013**. Effects of river discharge and tide driven sea level variation on saltwater intrusion in Sumjin River estuary: An application of finite-volume coastal ocean model. *Journal of Coastal Research*, 29(2), 460–470. Coconut Creek (Florida),
<https://doi.org/10.2112/JCOASTRES-D-12-00135.1>.
 - 20) **Shaha, D. C.**, Y. K. Cho, T. W. Kim, and A. Valle-Levinson, **2012**. Spatio-temporal variation of flushing time in the Sumjin River Estuary. *Terr. Atmos. Ocean. Sci.*, 23, 119-130, doi: 10.3319/TAO.2011.08.22.01(Hy).
 - 21) **Shaha, D.C.**, Y.-K. Cho, M.-T. Kwak, S. R. Kundu, and K. T. Jung. **2011**. Spatial variation of the longitudinal dispersion coefficient in an estuary, *Hydrol. Earth Syst. Sci.*, 15, 3679-3688,
<https://doi.org/10.5194/hess-15-3679-2011>.
 - 22) **Shaha, D. C.** and Cho, Y. –K. **2011**. Determination of spatially varying Van der Burgh's coefficient from estuarine parameter to describe salt transport in an estuary, *Earth Syst. Sci.*, 15, 1369-1377,
<https://doi.org/10.5194/hess-15-1369-2011>
 - 23) **Shaha, D. C.**, Cho, Y.-K., Seo, G.-H., Kim, C.-S., Jung, K.-T., **2010**. Using flushing rate to investigate spring-neap and spatial variations of gravitational circulation and tidal exchanges in an estuary, *Hydrol. Earth Syst. Sci.*, 14, 1465-1476, doi: 10.5194/hess-14-1465-2010.
 - 24) **Shaha, D. C.** and Cho, Y. –K. **2009**. Comparison of empirical models with intensively observed data for prediction of salt intrusion in the Sumjin River estuary, Korea. *Hydrology and Earth System Sciences*, 13, 923-933, doi: 10.5194/hess-13-923-2009.
 - 25) Mondal, B. K., Devnath, S, **Shaha, D. C.**, Khan, A. M. N., Choi, J. S. **2008**. Relationship between fecundity and total length, body weight, overy length, and overy weight of hilsa Shad, *Tenualosa ilisha* Hamilton, in Patuakhali, Bangladesh. *Journal of Fisheries Sciences and Technology*, 11, 98-102. DOI:10.5657/fas.2008.11.2.098.

Peer-Reviewed Native Journal Articles

- 26) Tora, A.T., Hasan, J. and **Shaha, D. C.** 2022. Marine fisheries resources in Bangladesh: present status and future prospects. *Ecol. J.* (2022) 4 (2): 179-193.
- 27) Hasan, J., Lima, R. A., **Shaha, D. C.** 2021. Fisheries resources of Bangladesh: A review. *Int. J. Fish. Aquatic. Studies*, 9, 131-138.
- 28) Shefat, S. H. T., Chowdhury, M. A., Haque, F., Hasan, J., Salam, M. A., & **Shaha, D. C.** 2020. Assessment of Physico-Chemical Properties of the Pasur River Estuarine Water. *Annals of Bangladesh Agriculture*, 24(1), 1-16.
- 29) Akter, T., Khatun, H.A., Haque, F., Rahman, M.R., **Shaha, D.C.**, Salam, M.A. 2019. Use of potato as an alternative source of carbohydrate in Tilapia (*Oreochromis niloticus*) fish feed. *Ann. Bangladesh Agric.* 23(1), 79-89.
- 30) Pondit, C., Salam, M.A., Rahman, M.L., Ahsan, A., **Shaha, D.C.**, Ahsan, M.E. Bhuiyan, M.M.H. 2017. Index of growth pattern for five stocked carp fish species of Chalan beel area in Bangladesh. *J. Agril. Sci.* 2(1&2), 73-82.
- 31) Rahman, M. R., **Shaha, D. C.**, Majumdar, B.C., Akter, T., Khatun, H. A. 2017. Intensity of Parasitic Infestation in Freshwater Snake Head (*Channa punctatus*) of Belai Beel, Gazipur, Bangladesh in Winter Season. 3 (1), 493-499.
- 32) Majumdar, B.C., **Shaha, D.C.**, Rasul, M.G. and Khan, M. 2016. Fish Production in Floodplain of Bangladesh: A Review. *International Journal of Natural Sciences*, 6(2), 89- 95.
- 33) **Shaha, D.C.**, Kundu, S. R. and Hasan, M.N. 2015. Production of organic grass carp (*Ctenopharyngodon idella*) and GIFT tilapia (*Oreochromis niloticus*) using napier grass, *Pennisetum purpureum*. *Journal of Fisheries*, 3(1), 233-238. DOI: dx.doi.org/10.17017/jfish. v3i1.2015.54
- 34) **Shaha, D. C.**, Hossain, M. M., Alam, S. and Hossain, A. 2014. Use of ditch-dike system in low lying areas to improve livelihoods of farmers of Bangladesh. *Ann. Bangladesh Agric.* 18 (1), 125-133.
- 35) **Shaha, D.C.**, S. Devnath, S.N.Roy and S. Dewan. 2004. Determination of suitable monoculture technique for GIFT in the Northern region of Bangladesh, *B. J. Fish.* 26, 61-66.

Presentations at professional meetings (International)

- 1) **Shaha, D.C.**, Sony, M.R.A. and Cho, Y.K. Spatio-temporal variation of longitudinal dispersion coefficient in salt plug estuary. Proceedings of the 2015 autumn meeting, 5-6 November 2015, The Korean Society of Oceanography, 140 p., Kunsun, South Korea 2015.
- 2) Imtiaz, M. N. and **Shaha, D.C.** 2015. Flushing time of Pasur river estuary. Abstracts and papers of the Marine Conservation and Blue Economy Symposium (8 June 2015, Dhaka), Krishibid Institution of Bangladesh, 83 p.
- 3) **Shaha, D. C.** and Cho, Y.-K. 2011. Spatial variation of longitudinal dispersion coefficient in an estuary, 21st Biennial Conference of the Coastal and Estuarine Research Federation, 6-10 November 2011, Daytona Beach, Florida, **USA**.
- 4) **Shaha, D.C.**, Cho, Y.-K., Kwak M.T., Jung K.T. 2011. Analytical estimates of longitudinal dispersion in an Estuary, The 16th Pacific-Asian Marginal Seas Meeting, April 21-23, 2011, Taipei, **Taiwan**.
- 5) **Shaha, D.C.**, Cho, Y.-K., Kim, T.W., Sun, Y.J., Kim, Y.-M. 2010. Stratification, mixing and vertical salt flux in the Sumjin River Estuary: A numerical model study. 2010 AOGS meeting on 5-9 July, Hyderabad, **India**.
- 6) **Shaha, D.C.**, Cho, Y.-K., Kim, T.W., Valle-Levinson, A., 2010. Flushing time for multiple segments in an estuary. 2010 AOGS meeting on 5-9 July, Hyderabad, **India**.
- 7) **Shaha, D.C.**, Cho, Y.-K., Kim, T.W., Sun, Y.J., Ahmed, N. 2010. Saltwater intrusion and its prediction in the Sumjin River Estuary, South Korea. 2010 Ocean Sciences Meeting, 22-26 February, Portland, Oregon, **USA**.

Presentations at professional meetings (Domestic)

- 1) **Shaha, D.C.**, Kim, T.W., Sun, Y.J., Cho, Y.-K. **2009**. Modeling salinity distribution in the Sumjin River Estuary, South Korea. Proceedings of the autumn meeting of the Korean Society of Oceanography in Daejeon, Korea.
- 2) **Shaha, D.C.**, Kim, T.W., Cho, Y.-K., **2009**. The calculation of spatial strengths of gravitational circulation and tidal exchanges using observed salinity in the Sumjin River Estuary, South Korea. Proceedings of the spring meeting of the Korean Association of Ocean and Technology Societies, Korea.
- Kim, C.S., Cho, Y.-K., Choi, B.J., **Shaha, D.C.**, Kwak, M.T. **2008**. Interannual variation of freshwater transport in the Korea strait. Proceedings of the autumn meeting of Korean Society of Oceanography in Ansan, Korea.
- 3) **Shaha, D.C.**, Cho, Y.-K., Kim, T.W., Kim, C.S., Kwak, M.T., Seo, G.H. **2008** Seasonal variability of salt intrusion, temperature structure and flushing times in the Sumjin River Estuary. Geomath Summer School 2008, Chonnam National University, Korea.
- 4) Shefat, S. H. T., Chowdhury, M. A., **Shaha, D. C.** 2019. Impacts of a salinity maximum zone on physico-chemical property of the Pasur River Estuary of Bangladesh. 1st International Conference on Sustainable Fisheries, Faculty of Fisheries, Sylhet Agricultural University, Sylhet, Bangladesh.

Participations at professional meetings/workshops

Sl. No.	Program attended	Date	Country/Venue	Contribution to the program
1)	Common services/activities, Technological Intervention and Environmental Interventions required for Dry Fish Processing	24 Jan 2023	Palli Karma-Sahayak Foundation (PKSF), Dhaka	Presenter
2)	Talk on "Fisheries Protection and Conservation Perspectives"	09 November 2022	NATA, Gazipur, Bangladesh	Presenter
3)	Workshop for opening the MS & Ph.D. degrees at the Department of Agro-processing	September 26, 2022	Old Auditorium, BSMRAU	Participant
4)	workshop for opening the Ph.D. program on "Environmental Sciences"	September 25, 2022	Old Auditorium, BSMRAU	Participant
5)	"Expert's Consultation Workshop on the Curriculum of BS Program for Faculty of Forestry and Environment"	22 September 2022	Old Auditorium, BSMRAU	Participant
6)	Proposal Presentation Workshop on RMC-UGC funded Long Term Research Project (2022-2025)	01 September 2022	Old Auditorium, BSMRAU	Participant
7)	Review Workshop on RMC-UGC funded Long Term Research Project (2018-2021)	25 August 2022	Old Auditorium, BSMRAU	Presenter
8)	Policy Dialogue on Revision of National Fisheries Policy 1998	21 August 2022	Seagull Hotel, Cox's Bazar	Participant
9)	In-house workshop to review and provide input on draft NAP	19-21 April 2022	BRAC CDM, Rajendrapur, Gazipur	Participant

10)	Workshop on “Challenges of biofloc technology in Bangladesh Aquaculture: An ambiguous media hype” (Project Code No. LSG-3F/ 21.) funded by KGF	28 March 2022	Conference Room, Faculty of Fisheries, BSMRAU, IQAC, BSMRAU	Participant
11)	Training Workshop on “Lab Management of BSMRAU ”	27 February 2022.		Resource person
12)	“Smart Village and Smart City: Perspective Digital Bangladesh”	26 December 2021	BSMRAU.	Participant
13)	Long Term Research (2021-2024) Proposal Presentation Workshop of BSMRAU	28 October 2021	Old Auditorium, BSMRAU	Speaker
14)	Review Workshop on RMC-UGC funded Long Term Research Project (2017-2020)	26-27 September 2021.	Old Auditorium, BSMRAU	Speaker
15)	Workshop on ‘Fish Pharmacology Course Curriculum’	March 15, 2020	Hotel Golden Tulip, Banani, Dhaka	Participant
16)	Research Review Workshop on RMC-UGC funded project (2018-2019)	13-14 November 2019	Old Auditorium, BSMRAU	Speaker
17)	Project Completion and Annual progress review workshop	22-23 September 2019	KGF Conference Room, Farmgate, Dhaka	Participant
18)	Final Workshop of the AquaLINC Project, World Fish Center, Bangladesh.	15-16 September 2019	Lakeshore Hotel Gulshan, Dhaka.	Participant
19)	Sea level rise in Asia 2019 International Seminar Hall, School of Earth and Environmental Sciences	25 July 2019	South Korea	Speaker
20)	Training of Trainers (ToT) on Ecosystem Approach to Fisheries Management (EAFM). EcoFish Bangladesh Project.	16-20 June 2019	Hotel Golden Tulip, The Grand Mark Dhaka, Banani, Dhaka Bangladesh	Participant
21)	Conference - Delta plan 2100 and sustainable development in Bangladesh, KIB	11-12 January 2019		Presenter
22)	Research Review Workshop of RMC funded (2017-2018)	28-29 November 2018	Old Auditorium, BSMRAU	Speaker
23)	Mainstreaming Ecosystem Approach to Fisheries Management (EAFM) in Bangladesh. EcoFish Bangladesh Project. Venue: Six seasons hotel, Gulshan, Dhaka.	19 November 2018	Bangladesh	Participant
24)	Post self-assessment improvement plan for Bs (Fisheries) Program	19 November 2018	BD	Participant
25)	Research Proposal Presentation (2018-2021) Workshop	27 October 2018	Old Auditorium, BSMRAU	Participant
26)	External peer review team of BS (Fisheries) Program.	25-27 September 2018	Faculty of Fisheries, BSMRAU	Participant
27)	The Review Workshop on RMC funded project (2016-2017)	16-17 July 2018	Old Auditorium, BSMRAU	Participant

28)	Workshop on Long Term Research Planning of BSMRAU	21 October 2017	Old Auditorium, BSMRAU	Participant
29)	Ecosystem Approach to Fisheries Management (EAFM)	20 September 2017	Six Seasons Hotel, Gulshan	Participant
30)	Research Review Workshop 2013-14	31 October ~ 01 November 2015	Old Auditorium, BSMRAU	Participant

Booklet/Leaflet

Shaha, D.C. 2005. Determination of suitable monoculture technique for GIFT in the Northern region of Bangladesh. Farmer-Student Participatory Research: Evolution, Approach and Practices, North Bengal Institute, RDRS Bangladesh. Series no. 3, 24 p.

Grants Awarded

A. International

Year	Source of Fund	Position	Title of Project	Fund received
2013	International Foundation for Science (IFS), Sweden	Chief Investigator	Modeling Salt Transport in the Pasur River Estuary, Bangladesh (I-2-W-5414-1)	11,997 USD
2018	International Foundation for Science (IFS), Sweden	Chief Investigator	A study on export of saline water and nutrients from the Shibsa River estuary, Bangladesh (I-2-W-5414-2)	12,000 USD
2020	World Fish (USAID)	Chief Investigator	Ecosystem health assessment of the Meghna River estuary for tropical Hilsa shad	12,000 USD
2021	World Fish (USAID)	Chief Investigator	Ecosystem health assessment and eco-biological modeling on the taste and abundance of Hilsa population in the Meghna River system of Bangladesh (Sub-grant #: PLA12258)	40,200 USD

B. National

Year	Source of Fund	Position	Title of Project	Fund received
2012	RMC project (Research Management Committee)	Principal Investigator	Production of organic grass carp (<i>Ctenopharyngodon idella</i>) and tilapia (<i>Oreochromis niloticus</i>) using napier grass <i>Pennisetum purpureum</i>	80,000 BDT
2013	RMC project	Principal Investigator	Effects of vermicompost on water quality and growth performance of <i>Oreochromis niloticus</i> and <i>Cyprinus carpio</i>	90,000 BDT

2013	UGC project	Principal Investigator	Effects of vermicompost as the sole nutrient input on water quality and production performance of organic tilapia <i>Oreochromis niloticus</i>	121000 BDT
2014	RMC project	Principal Investigator	Growth performance and production of organically cultured grass carp and tilapia using napier grass and vermicompost	100,000 BDT
2017-18	RMC project	Principal Investigator	The role of mangrove and salt plug on ecological parameter distribution in the Pasur River estuary	348,000 BDT
2017-18	Ministry of Science and Technology	Principal Investigator	The potential of pen culture on fish production enhancement in the Balu River distributary, Gazipur	300,000 BDT
2018-19	Ministry of Science and Technology	Principal Investigator	The potential of cage culture on fish production enhancement in the Balu River distributary, Gazipur	250,000 BDT
2018-19	RMC project	Principal Investigator	The role of mangrove and salt plug on ecological parameter distribution in the Pasur River estuary	390,000 BDT
2018	UGC project	Principal Investigator	The use of Napier grass (<i>Pennisetum purpureum</i>) as low-cost aquaculture input to produce organic carp fish	239980 BDT
2019-2020	Ministry of Science and Technology	Principal Investigator	Fish diversity and distribution in relation to salinity gradient in the Pasur and Bhadra River estuaries, Bangladesh	350000.00 BDT
2019-20	RMC project	Principal Investigator	The role of mangrove and salt plug on ecological parameter distribution in the Pasur River estuary	400,000 BDT
2020-21	RMC project	Principal Investigator	Spawning and Nursery Habitat Assessment of hilsa shad in the Tetulia and Meghna River estuaries	320,000 BDT
2021-22	RMC project	Principal Investigator	Spawning and Nursery Habitat Assessment of hilsa shad in the Tetulia and Meghna River estuaries	320,000 BDT
2022-23	Ministry of Science and Technology	Principal Investigator	Identification of areas with suitability index for mariculture species in the middle coast of Bangladesh (Project ID: SRG-221167)	450,000 BDT

Honors, Awards & Prizes

- Received best oral presentation award from Biennial Conference, Fisheries Society of Bangladesh, 27-28 December 2019 organized by Bangladesh Agricultural University.
- Best Publication Award in Fisheries Science, 2017 by Bangladesh Fisheries Research Forum (BFRF), Dhaka, Bangladesh.
- GeoHost awardee of 2010 AOGS (Asia Oceania Geophysical Society) conference on 5-9 July, Hyderabad, India.
- Alumni Association scholarship, Chonnam National University, 27 February 2007.
- SUFER (Support for University Fisheries Education and Research) research grant of DFID (Department

for International Development, UK) for M.S. in Fisheries Management from June 2003 to May 2004.

- Awarded by Rajshahi Association, an academic and socio-cultural organization, for an excellent result in the Faculty of Fisheries in 2000, 2001 and 2003.
- Awarded by Rajshahi Education Board for meritorious result in the Secondary School Certificate examination held in 1994.

Reviewer Services

Reviewer for numerous journals including: Ocean Science Journal, Water (MDPI), Fishes, Sustainability (MDPI), Conservation (MDPI), Journal of Coastal Research, Environmental Science and Pollution Research, Egyptian Journal of Aquatic Biology and Fisheries, Annals of Bangladesh.

Professional Training Courses attended

A. International

- Attended in ‘**Marine GIS for operational Oceanography**’, Hyderabad, India on 18-22 January **2016** jointly organized by the UNESCO/IOC IODE and INCOIS-ITCOcean.
- Attended in ‘**MOHID Water Modelling System Course**’ Seoul, South Korea on 13-17 April **2015** with the facilitator of Eng. Luis Fernandes, University of Lisbon, Portugal.
- Attended in ‘**Ocean Modeling (ROMS) Training Workshop**’ at Hong Kong University of Science and Technology from 5-14 January **2011**. This workshop aids users to build up the theoretical and practical capability for Regional Ocean Modeling System (ROMS) widely used in oceanography community. Lectures and class practice delivered by Profs. Dale Haidvogel (Rutgers University), Kate Hedstrom (University of Alaska) and Jianping Gan (Hong Kong University of Science and Technology).
- Attended in ‘**Intensive Courses on Estuarine Dynamics**’ at Inha University, South Korea with the facilitator of Dr. Arnaldo Valle-Levinson, University of Florida, USA on 7-11 September **2009**.

B. National

Name of training courses	Name and address of institution	Duration	Year
Aquaculture and Extension: Mymensingh Aquaculture Extension Project (MAEP) experiences	Maskanda, Mymensingh	4 days	1-4 October 2000
Agricultural extension	Dept. of Agricultural Extension Education, BAU, Mymensingh	6 days	28 April – 3 May, 2001
NFEP-II (Northwest Fisheries Extension Project) Extension and training activities	NFEP-II, Parbatipur, Dinajpur	5 days	3-7 September, 2002
Computer Fundamentals and MS- Word	Graduate Training Institute (GTI), BAU, Mymensingh	12 days	28 December 2002 – 9 January 2003
Data Analysis: MS Excel and Mstatc	GTI, BAU, Mymensingh	12 days	17-29 January 2004
Administration, Office Management and Communication	GTI, Bangladesh Agricultural University, Mymensingh	12 days	13-25 March, 2004
Training of Trainers (TOT)	GTI, Bangladesh Agricultural University, Mymensingh	12 days	29 March – 11 April 2004
Teaching-learning methods and	Faculty of Fisheries, HEQEP CP –	6 days	17-24 June

curriculum development	2066, BSMRAU		2013
Experience Sharing: Course-credit system of BSMRAU	Faculty of Fisheries, HEQEP CP – 2066, BSMRAU	3 days	11-13 September 2013
Data analysis and scientific report writing	Faculty of Fisheries, HEQEP CP – 2066, BSMRAU	5 days	14-15,22-24 November 2013

Professional Affiliations

- Life Member of Asia Oceania Geophysical Society (**AOGS**), Member ID-20A5966, 2010
- Life Member of Krishibid Institution Bangladesh (**KIB**), Member ID-06-00-12704, 2019
- Life member of Bangladesh Fisheries Research Forum (**BFRF**), LM-bfrf106, 2012.
- Life member of National Oceanographic and Maritime Institute (**NOAMI**), Member ID–LM-2021-252.
- Member of American Geophysical Union (**AGU**), 2010 to 2011
- Member of European Geosciences Union (**EGU**), 2009 to 2011
- Life member of Bangladesh Association for the Advancement of Science (**BAAS**), 2014.

Field Experience

- Collecting data using CTD (Conductivity-Temperature-Depth) profiler (Model: Aqua Troll-200) and water sampler for investigating ‘Ecosystem health assessment of the Meghna River estuary for tropical Hilsa shad’ from January 2019 to December 2020.
- Collecting data using CTD (Conductivity-Temperature-Depth) profiler (Model: Aqua Troll-200) and water sampler for investigating ‘The role of mangrove and salt plug on ecological parameter distribution in the Pasur River estuary’ from July 2017 to June 2020.
- Collecting data using CTD (Conductivity-Temperature-Depth) profiler (Model: Aqua Troll-200) and water sampler for investigating ‘A study on export of saline water and nutrients from the Shibsa River estuary, Bangladesh’ from November 2018 to December 2020.
- Collecting data using CTD (Conductivity-Temperature-Depth) profiler (Model: Aqua Troll-200) for investigating ‘Modeling Salt Water Intrusion in Pasur River Estuary’ from February 2014 to December 2014.
- Collecting data using TR (Temperature Recorder) and CTD (Conductivity-Temperature-Depth) profiler for investigating ‘surface salinity and temperature distribution in the West coast of Korea, adjacent to the Nuclear Power Plant’ from 2007 to 2009.
- Collecting data using CTD (Conductivity-Temperature-Depth) profiler for investigating ‘Salinity and temperature distribution in the Sumjin River Estuary (SRE), South Korea’ from September 2006 to April 2007.

Language Proficiency

- Completion a Communicative English course at Language Department, Bangladesh Agricultural University, January-February 2003.
- Completion an academic ‘International English Language Testing System (IELTS)’ course at British council, Dhanmondi, Dhaka, March –April, 2006.
- Awarded the Korean Language Intensive Course (Level 2), 07 May –22 June, 2007.

Technical/Research Reports

- Prepared report on “Common services/activities, Technological Intervention and Environmental Interventions required for Dry Fish Processing” submitted to Palli Karma-Sahayak Foundation (PKSF), Bangladesh in 2022.
- Prepared report on “A study on export of saline water and nutrients from the Shibsa River estuary, Bangladesh” submitted to International Foundation for Science (IFS), Sweden 2022.
- Prepared report on “Ecosystem health assessment and eco-biological modeling on the taste and abundance of Hilsa population in the Meghna River system of Bangladesh” submitted to World Fish (USAID), Dhaka Office, Bangladesh 2021.
- Prepared report on “Ecosystem health assessment of the Meghna River estuary for tropical Hilsa shad” submitted to World Fish (USAID), Dhaka Office, Bangladesh 2020.
- Prepared report on “The role of mangrove and salt plug on ecological parameter distribution in the Pasur River estuary” submitted to Research Management Wing, BSMRAU, Gazipur, Bangladesh 2020.
- Prepared report on “Modeling Salt Water Intrusion in Pasur River Estuary” submitted to International Foundation for Science (IFS), Sweden 2016.
- Prepared report on ‘*Pond aquaculture, rice-cum-fish culture, and community based fisheries management for the selected farmers of Kushtia district*’ and submitted to District Fisheries Office, Kushtia and Department of Fisheries (DOF), Ramna, Bangladesh in 2005 and 2006.
- Prepared report on ‘*Suitable monoculture technique for growth and production of GIFT Tilapia for rural poor beneficiaries groups in the northern region*’ and submitted to RDRS, Bangladesh in 2005.

University Services

Contributions to the educational program (MS)

MS students mentored

- 1) Major Advisor for Noim Imtiaz (Reg. 2009-05-2180, MS, Winter 2014)
- 2) Major Advisor for Rafi Afroz Sonny (Reg. 2009-05-2182, MS, Summer 2015)
- 3) Major Advisor for Gazlima Chowdhury (Reg. 2009-05-2181, MS, Summer 2015)
- 4) Major Advisor for Afia Farzana (Reg. 2009-05-2203, MS, Summer 2015)
- 5) Major Advisor for Mahmudur Rahman (Reg. 2009-05-2206, MS, Summer 2015)
- 6) Major Advisor for Shoaibe Hossain Talukder Shefat (Reg. 2017-08-4520, MS, Autumn 2018)
- 7) Major Advisor for Mohammed Anas Chowdhury (Reg. 2017-09-4519, MS, Autumn 2018)
- 8) Major Advisor for Hafij Al Asad (Reg. 2014-05-3296, MS, Autumn 2020)
- 9) Major Advisor for Nahida Islam (Reg. 2014-05-3323, MS, Autumn 2020)
- 10) Major Advisor for Shaida Akter (Reg. 2014-05-3278, MS, Autumn 2020)
- 11) Major Advisor for Jahid Hasan (Reg. 2015-05-3572, MS, Autumn 2020)
- 12) Major Advisor for Ananya Talukder Tora (Reg. 18-08-4918, MS, Winter 2020)
- 13) Major Advisor for Rabina Akhter Lima (Reg. 2015-05-3577, MS, Autumn 2021)
- 14) Major Advisor for Salman Ahmed (Reg. 19-05-5307, MS, Winter 2021)
- 15) Major Advisor for Afia Anjum (Reg. 15-05-3626, MS, Winter 2021)
- 16) Major Advisor for Zibon Naher Yasmin (Reg. 15-05-3627, MS, Winter 2021)
- 17) Major Advisor for Nusrat Jahan Mimi (Reg. 2017-05-4294, MS, ongoing)
- 18) Major Advisor for Md. Munem Shahriar (Reg. 2022-08-6117, MS, ongoing)
- 19) Major Advisor for Isruna Binku Aniya (Reg. 2022-08-6129, MS, ongoing)
- 20) Major Advisor for Sadia Hassan Shila (Reg. 2022-08-6136, MS, ongoing)
- 21) Major Advisor for Fatema Tuj Rowja (Reg. 2018-05-4685, MS, ongoing)
- 22) Major Advisor for Badrul Hassan (Reg. 2018-05-4656, MS, ongoing)

- 1) Member of Advisory committee for Rabiul Kowser (Reg. 2009-05-2192, MS, Summer 2015)
- 2) Member of Advisory committee for Lily Chakma (Reg. 2009-05-2183, MS, Summer 2015)
- 3) Member of Advisory committee for Md. Abdul Hannan (Reg. 2009-05-2208, MS, Summer 2015)
- 4) Member of Advisory committee for Md. Ataur Rahman (Reg. 2009-05-2208, MS, Summer 2015)
- 5) Member of Advisory committee for Bhaskar Chandra Majumdar (Reg. 2011-05-2656, MS, Autumn 2017)
- 6) Member of Advisory committee for Hosne Ara Khatun (Reg. 2012-05-2847, MS, Summer 2018)
- 7) Member of Advisory committee for Swagata Aditya (Reg. 2013-05-3038, MS, Winter 2018)
- 8) Member of Advisory committee for Md. Rayhanur Rahman (Reg. 2012-05-2854, MS, Summer 2019)
- 9) Member of Advisory committee for Masuma Akter Sadia (Reg. 2017-08-4504, MS, Summer 2019)
- 10) Member of Advisory committee for Md. Ariful Islam (Reg. 2014-05-3277, MS, Autumn 2019)
- 11) Member of Advisory committee for Prasun Chakraborty (Reg. 2013-05-3017, MS, Autumn 2019)
- 12) Member of Advisory committee for Afrin Jahan (Reg. 2017-08-4505, MS, Autumn 2019)
- 13) Member of Advisory committee for Tilottoma Das koli (Reg. 2014-05-3287, MS, Summer 2020)
- 14) Member of Advisory committee for Sharifa Marmita Noori (Reg. 2014-05-3303, MS, Winter 2020)
- 15) Member of Advisory committee for Shompa Sarker (Reg. 2014-05-3319, MS, Winter 2021)
- 16) Member of Advisory committee for Md. Roknuzzaman (Reg. 2014-05-3368, MS, Autumn 2020)
- 17) Member of Advisory committee for Swapna Akter (Reg. 15-05-3591, MS, Winter 2021)
- 18) Member of Advisory committee for Rifat Azad Keya (Reg. 15-05-3614, MS, Winter 2021)
- 19) Member of Advisory committee for Asim Kumar (Reg. 2015-05-3605, MS, Winter 2021)
- 20) Member of Advisory committee for Umme Hanni Sharanika (Reg. 2015-05-3600, MS, Winter 2021)

Graduate School Representative

Worked as graduate school representative for Md. Asif Iqbal (Reg. 2015-05-3582, MS, Summer 2022).

Worked as graduate school representative for Md. Shoebul Islam (Reg. 2015-05-3603, MS, Summer 2021)

Worked as graduate school representative for Md. Al Mamun (Reg. 2015-05-3617, MS, Winter 2022)

Courses taught under MS program

Autumn-2013	FMG 533 Estuarine and Coastal Dynamics
Winter-2013	FMG501 Fisheries Resources Management
Summer-2014	FMG560 Integrated Coastal Zone Management
Autumn-2017	FMG 545 Marine Ecosystem, Biodiversity and Conservation
Winter-2017	FMG501 Fisheries Resources Management
Summer-2018	FMG503 Water Quality and Environmental Impacts
Autumn-2018	FMG535 Fish Stock Assessment
Winter 2018	FMG501 Fisheries Resources Management
Summer 2019	FMG555 Estuarine and Coastal Dynamics
Summer 2020	FMG535 Fish Stock Assessment
Summer-2021	FMG560 Integrated Coastal Zone Management
Summer-2023	FMG 533 Estuarine and Coastal Dynamics

Taught Seminar Courses under MS program

Winter-2013	Seminar 598/698 as instructor
Autumn-2017	Seminar 598/698 as instructor
Summer-2018	Seminar 598/698 as instructor
Summer-2019	Seminar 598/698 as instructor
Summer-2020	Seminar 598/698 as instructor
Winter-2020	Seminar 598/698 as instructor

Courses taught under BS program

Winter-2011	FBE 161 Fishery Systematics
Winter-2012	FMG 461 Fisheries Management & Conservation and FBE 161 Fishery Systematics
Winter-2013	FMG 461 Fisheries Management & Conservation
Winter-2014	FMG 461 Fisheries Management & Conservation FMG361 Fish Pathology-II FMG161 Biological Limnology
Winter-2017	FMG 461 Fisheries Management & Conservation FMG361 Fish Pathology-II
Winter-2018	FMG 461 Fisheries Management & Conservation FMG361 Fish Pathology-II
Winter-2019	FMG 461 Fisheries Management & Conservation FMG361 Fish Pathology-II
Winter-2020	FMG 461 Fisheries Management & Conservation FMG 161 Limnology
Winter-2021	FMG 461 Fisheries Management & Conservation
Summer-2012	FMG402 Oceanography & Marine Biology and FIT401 Fishery products & by-products
Summer-2013	FMG402 Oceanography & Marine Biology and FIT401 Fishery products & by-products
Summer-2014	FMG402 Oceanography & Marine Biology
Summer-2015	FMG402 Oceanography & Marine Biology FMG 401 Prevention and Control of Fish Diseases
Summer-2017	FMG402 Oceanography & Marine Biology FMG101 Physico-chemical Limnology
Summer-2018	FMG402 Oceanography & Marine Biology FMG101 Freshwater Ecology
Summer-2019	FMG402 Oceanography & Marine Biology FMG201 Estuarine Ecology
Summer-2020	FMG402 Oceanography & Marine Biology FMG-101 Freshwater Ecology
Summer-2022	FMG-101/110 Freshwater Ecology
Autumn-2012	FBE 131 Aquatic Biodiversity
Autumn-2013	FBE 131 Aquatic Biodiversity
Autumn-2014	FBE 131 Aquatic Biodiversity FMG 131 Freshwater Ecology
Autumn-2017	FMG 135 Elements of Fisheries FMG 131 Freshwater Ecology
Autumn-2018	FMG 135 Elements of Fisheries FMG 131 Limnology FMG 431 Fish Population Dynamics
Autumn-2019	FMG 135 Elements of Fisheries FMG 131 Limnology
Autumn-2020	FMG131 Estuarine and Marine Ecology FMG 431 Fish Population Dynamics
Autumn-2021/22	FMG131 Estuarine and Marine Ecology
Autumn-2021/22	FMG402 Oceanography & Marine Biology

Consultancy Work Experiences

- Worked as an expert on '**Fish Diversity and Composition**' for consultancy services from date 20 August, 2020 at Ghorashal Palash Urea Fertilizer Project, Ghorashal, Palash, Narshingdhi under the supervision of SGS Bangladesh Limited.
- Worked an expert on '**Fish and benthos Diversity and Composition**' for consultancy services from date 1st December, 2020 for Natural and Social Environmental Survey at Matarbari Ultra Super Critical Coal-Fired Power Project (Phase-2) under the supervision of SGS Bangladesh Limited.
- Worked as expert on '**Common services/activities, Technological Intervention and Environmental Interventions required for Dry Fish Processing**' for consultancy services for four months from 12 December, 2021 under the Deputy Managing Director-2, Palli Karma-Sahayak Foundation, Plot: E-4/B, Agargaon Administrative Area, Sher-e-Bangla Nagar, Dhaka-1207.

Administrative support to Faculty of Fisheries, BSMRAU

- Head, Department of Fisheries Management at BSMRAU from 18 July 2018 to 15 July 2020.
- Guide teacher for study tour 2012 of final year Fisheries Student, 1st Batch (2009) in Cox's Bazar and Khulna.
- Guide teacher for Teacher's study tour 2014 organized by HEQEP for faculty teachers in Khulna.

Administrative support to universities

1. Committee member of BS and MS syllabus preparation for the Department of Marine Fisheries and Oceanography, Patuakhali Science and Technology University, Patuakhali 8602, Bangladesh in 2011.
2. External member of examination committee, Institute of Marine Science, Chittagong, Bangladesh in 2013.
3. Scrutiny Member for Teachers Appointment at BSMRAU in 2013, 2014.
4. Assistant Provost at Shaheed Ahsan Ullah Master Hall at BSMRAU from 04 April 2012 to 03 April 2014.
5. Assistant Provost at Shaheed Ahsan Ullah Master Hall at BSMRAU from 02 July 2017 to 01 July 2019.
6. Associate Director (Project Research) at BSMRAU from 01 August 2019 07 July 2021.
7. Provost at Shaheed Tajuddin Ahmed Hall at BSMRAU from 08 July 2021 to present.
8. External examiner for the course of MFS 2102 Chemical Oceanography, Department of Marine Science and Fisheries, Bangladesh Agricultural University, Mymensingh, 16-21 Nov 2022.

References

- Professor Dr. Md. Mahbubur Rahman, Department of Biotechnology, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur 1706, Bangladesh, Email:mahbub_biotech@yahoo.com, mahbubfish2@gmail.com, Cell Phone No. 01819489346
- **Professor Yang-Ki Cho**, Marine Environmental Prediction Laboratory, School of Earth and Environmental Sciences, Seoul National University, Seoul, Korea 151-742, Tel: 82-2-880-6749, Email:choyk@snu.ac.kr, *Relation*: Postdoctoral research advisor and PhD Advisor.

I declare that all information given here are true and accurate.



Dinesh Chandra Shaha
17 January 2023