

Abu Jahan Mohammed Morshed
Senior Scientific Officer

Achievements

Processes accepted:

01. A process for the Production of “Stevia Product as Sweetener” accepted in BCSIR.(Ref: Sectt. / R&D/ 62-612/ 07/ 1034 Date: 30/07/2008)
02. A process for the Production of “Kalmegh Tablet” accepted in BCSIR.(Ref: Sectt./ R&D/ 62-569 / 07 / 1033 Date: 30/07/2008).
03. A process for the production of “Instant Stevia Tea” accepted in BCSIR.(Ref: 39. 373.037.03.001.12.202 Date: 26.10.2015)

Process verified:

01. A process for the production of “Stevia Biscuits” accepted in BCSIR.(Ref: 39. 373.037.03.00.145.2011/722 Date: 01.02.2017)

Papers:

01. Seasonal variation of drinking water quality in urban water bodies (UWBs) of Chittagong Metropolitan City, Bangladesh: implications of higher water quality index (WQI) for the urban environment. *Water supply*,22 (5),4934 – 4950, 2022. doi:10.2166/WS.2022.151.
02. Piyas Barua, Md. Mostafa Monwar, A J. M. Morshed, Istiak Ahmed, Md. Rajib, Ariful Islam Palash, Md. Jiauddin, Mohammad Ibrahim Khalil, Sumit Barua and Md. Royhanur Islam. Assessment of Heavy Metal Concentration in Water and Sediments of the Sangu River, Chattogram, Bangladesh. *BAAUSTJ*,01(2): 19-24, 2021
03. Toxic metals monitoring in soil, water, vegetable and fish from Lakshmipur district in Bangladesh. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* , 14(6): 53-59 (June 2020).
04. Qualitative Analysis and Assessment Of Heavy Metals In Some Poultry Feeds From Chattogram Division, Bangladesh. *International Journal of Scientific & Technology Research*, 8(10): 1424-1431, 2019.
05. Heavy Metals and Essential Elements in Poultry Feeds in Chittagong, Bangladesh. *American-Eurasian Journal of Toxicological Sciences* 11 (1): 11-20, 2019, [http:// DOI: 10.5829/idosi.aejts.2019.11.20](http://DOI:10.5829/idosi.aejts.2019.11.20)
06. Quantitative Analysis of Heavy Metals in Body Lotions Collected from Local Markets of Bangladesh. *IOSR Journal of Applied Chemistry (IOSR-JAC)* e-ISSN: 2278-5736, 12(1): 55-59, January, 2019, [http:// DOI: 10.9790/5736-1201015559](http://DOI:10.9790/5736-1201015559)

07. A Review - Production of Ribbed Smoked Sheet in Chattogram Hill Tracts of Bangladesh and Assessment of Heavy Metals in Itself. *IOSR Journal of Applied Chemistry (IOSR-JAC)* e-ISSN: 2278-5736, 11(8): 11-14, Ver. I (August,2018), <http://DOI: 10.9790/5736-1108011114>
08. Quantification of Heavy Metal in the Various Branded Face Wash available in the Bangladeshi Markets. *International Journal of Science & Technology Research*, 6 (10), pp 295-297, 2017.
09. Toxic Metal and Essential Nutrients Concentration in Different Vegetables Collected from Market Sites of Chittagong Metropolitan City, Bangladesh. *Current World Environment*, 12 (2), pp 270-277, 2017, <http://dx.doi.org/10.12944/CWE.12.2.10>
10. Comparison of ground water quality between CEPZ industrial area and Hathazari non industrial area in Chittagong, Bangladesh. *IOSR Journal of Applied Chemistry (IOSR-JAC)*, 10(3), pp 01-05, 2017, <http://DOI: 10.9790/5736-1003010105>
11. Determination of Heavy Metals and Trace Elements in Worldwide Branded Shampoo Available in Local Market of Bangladesh by Atomic Absorption Spectrometry. *Asian Journal of Chemistry*, 27(10), pp: 3756-3762, 2015, <https://doi.org/10.14233/ajchem.2015.18967>
12. Estimation of heavy metals and microbiological quality of locally manufactured herbal products in Bangladesh. *Hamdard Medicus*, 56(4), pp: 38-52, 2013
13. Screening of chloramphenicol in chicken and fish in Chittagong city of Bangladesh. *Bangl.J. Vet. Med.* 11(2), pp: 173 – 175, 2013, <http://DOI: 10.3329/bjvm.v11i2.19144>
14. A survey of medicinal plants as regards to their uses by the tribal practitioners in the Chittagong Hill Tracts of Bangladesh to check various diseases. *Hamdard Medicus*, 56(3), pp: 18 – 40, 2013.
15. Some medicinal plants used by the rural practitioners (Kabiraj or Boidda) of Bangladesh for treating menstrual troubles and leucorrhoea. *Hamdard Medicus*, 56 (1), January-March, pp:86 – 102, 2013.
16. Indigenous Medicinal Plants Used by the Tribal Healers of Chittagong Hill Tracts to Treat Diarrhoea and Dysentery. *Hamdard Medicus*, 55 (2) pp: 48 – 66, 2012.
17. Traditional Folk Medicine Used by the Tribal Practitioners of Chittagong Hill Tracts of Bangladesh to Alleviate Rheumatism. *Hamdard Medicus*, 55 (3), pp: 79 - 92, 2012.
18. Documentation of Some Medicinal Plants Used by the Tribal Communities of Chittagong Hill Tracts of Bangladesh for Treatment of Skin Diseases. *Hamdard Medicus*, 52 (4), pp: 41 – 52, 2009.
19. Measurement of Natural and Artificial Radionuclides of *Stevia rebaudiana* Bertoni Extract. *Bangladesh J. Sci. Ind. Res.* 44 (4), 467 – 472, 2009. <https://doi.org/10.3329/bjsir.v44i4.4600>
20. Some Indigenous Medicinal Plants knowledge for Treating Bronchial Asthma in Chittagong Hill Tracts, Bangladesh. *Hamdard Medicus*, 52 (3) pp: 152 – 155, 2009.
21. Ethno-medical Uses of Some Medicinally Active Plants for Treating Malaria in Chittagong Hill Tracts, Bangladesh. *Hamdard Medicus*, 51 (4) pp: 106 – 110, 2008.

Paper Submitted:

01. Comparative evaluation of hypoglycemic activities between leaf extracts of *Coccinia cordifolia* and *Gynura procumbens*. Indian Drugs. 2023.

Training Participated on-

- ✚ Atomic Absorption Spectrometer
- ✚ Liquid Chromatography tandem Mass Spectrometer.
- ✚ High Performance Liquid Chromatography
- ✚ X-Ray Diffractometer (XRD)
- ✚ Ion-Trap Mass Spectrometer
- ✚ Fourier-Transform Infrared Spectroscopy (FTIR)
- ✚ Gas Chromatography-Mass Spectrometry (GC-MS)
- ✚ Histopathological Techniques
- ✚ Energy Dispersive X-Ray Fluorescence (ED-XRF)

Foreign Training:

- Liquid Chromatography and Mass Spectrometer (Shimadzu Asia Pacific Pte. Ltd. Singapore, 17 – 21 June, 2013)

Administrative Training

Sl. No.	Course Name	Duration	Place
01	1 st Foundation Training	From 03/08/2014 to 02/10/2014	Bangladesh Civil Service Administration Academy, Shahbag, Dhaka-1000.
02	Management skills for Project Executives	27 – 31 August, 2017	National Academy for Planning and Development (NAPD), Nilkhet, Dhaka.
03	Public Procurement Management	24 – 26 December, 2020	Bangladesh Institute of Management (BIM), Sobhanbag, Dhaka-1207

Conference

- ❖ 38th Annual conference of Bangladesh Chemical Society
Theme: *Chemistry for Food Safety*
Date: 31 march,2017
Venue: Shahid Fazlur Rahman Munshi Auditorium, Chittagong Port Authority, Bandar, Chittagong.

Workshop attended:

Subject	Venue	Period
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Integrity Practices and Strategy in Public Services Delivery	BPATC(Bangladesh Public Administration Training Centre), Savar, Dhaka.	05 September, 2015
Innovation and public service	IFRD Auditorium, BCSIR, Dhaka.	07 August, 2019
উদ্ভাবন ও সেবা সহজিকরণ বিষয়ক কর্মশালা	IFRD Auditorium, BCSIR, Dhaka.	07 August, 2019
e-Governance and Innovation Technique	IFST, BCSIR, Dhaka	30 November, 2021
তথ্য অধিকার আইন ও বিধিবিধান বিষয়ক কর্মশালা।	IFST, BCSIR, Dhaka	10 April, 2022

Training Provided as a Trainer

Sl. No.	Name of the Instrument	Period	Place	Remarks
01	Atomic Absorption Spectrometer (AAS)	(17-21) November,2019	BCSIR Laboratories, Chattogram	In-house Training
02	Atomic Absorption Spectrometer (AAS)	(19-23) December,2021	BCSIR Laboratories, Chattogram	In-house Training
03	Atomic Absorption Spectrometer (AAS)	(17-18) January,2023	BCSIR Chattogram Laboratories	Internal Training

Membership of Scientific Bodies: Bangladesh Chemical Society (LM 785)

Academic Research Guidance/ Supervision (up to 2023): 15

Additional Duty:

1. Officer in-charge, Security section (From 30 January, 2018 to present)
2. Officer in-charge, Vehicle (From 07 March, 2022 to present).