

Resume
of
Mohammed Masum

Personal Data:

Name : Mohammed Masum (Ex-UNU-GTP fellow)
Father's Name : Abdul Latif
Mother's Name : Mariam Begum
Date of Birth : February 01, 1981

Home Address : Vill. Gangair
P.O. Dholapara
P.S. Ghatail
Dist. Tangail
[E. mail- masum613@yahoo.com](mailto:masum613@yahoo.com)

Nationality : Bangladeshi (by birth)
Religion : Islam
Language known : Bengali and English

Present Employment Status

Deputy Director (Geology)
Geological Survey of Bangladesh,
Energy and Mineral Resources division,
Ministry of Power, Energy and Mineral Resources
Government of the People's Republic of Bangladesh.

Research Experience

Working as a field/site/chief geologist in the branch Economic Geology and Resources Assessment, Geological Survey of Bangladesh (GSB) from **February 12, 2007 to 10/10/2021**.

Now assigned as Deputy Director, (Publication and Foreign Communication and Data Center) under the branch of Publication Training, GSB till the date.

Education and Training

Education:

Degree	Session/Year	Institution	Field of Study	Result
Master of Science (MS)	2002-2003 (examination held in 2006)	Department of Geology, University of Dhaka, Bangladesh	Petroleum Geology and Geophysics	Scnd Class (59.5% marks)
Bachelor of Science (Hons)	1998-2002 (examination held in 2005)	Department of Geology, University of Dhaka,	Geology	Scnd Class (50.5%)

		Bangladesh		
H.S.C	1997	Ghatail Cantonment College, Tangail, Bangladesh	Science	First* (80%)
S.S.C	1995	Dholapara S.U.P High School, Ghatail, Tangail, Bangladesh	General Science	First* 80%

Technical Training:

Course Name	Duration	Year	Institution	Received
Geological Exploration	6 month	2013	UNU-GTP (Iceland)	Certificate
Remote Sensing and Digital Image Processing for Geo-Scientists	1 month	2015	Geological Survey Training Institute, Hyderabad, India	Certificate
Financial Management Course	15days	2008	BPATC, Savar, Dhaka, Bangladesh	Certificate
Environmental Management and Sustainable Development	15 days	2009	BPATC, Savar, Dhaka, Bangladesh	Certificate
Office Management	11 days	2015	Bangladesh Petroleum Institute	Certificate
Orientation Coarse	15 days	2007	Geological Survey of Bangladesh (GSB)	Certificate
Geoscientific works in unconsolidated sediments	15 days	2014	Geological Survey of Bangladesh (GSB)	Certificate
Rock Works 16 modeling software	4 days	2014	India organized at Geological Survey of Bangladesh (GSB)	Certificate
Subsurface Viewer	7 days	2017	BGR (Germany) organized at Geological Survey of Bangladesh (GSB)	Certificate

Professional / Research Experiences/Publications:

***) I am assigned to write up manuscript and disseminate the results in national and international scientific journal and conferences which are mentioning below.

1) Masum. M, Ahsan. M. K and Hoque. MN, (2020+1): Geothermal Update in Bangladesh,

Proceedings- World Geothermal Congress 2020+1, Reykjavik, Iceland, April - October 2021. Paper No-01046.

2) Masum.M, Kristinsson.S.G and Hardarson.B. S. (2020+1): Gradient Calculation Method Applied to the Low-Temperature Geothermal field, SE-Iceland. Proceedings- World Geothermal Congress 2020+1, Reykjavik, Iceland, April - October 2021. Paper No-11064.

3) Masum. M, M, Hoque. M.N, Akbar. M.A, Mahmud. Z, Rana.M.S, Razzaque. M.A Amin. M.A, (2021): Geology and Precambrian Banded Iron Formations formed at Rangpur Platform in Bangladesh." *International Journal of Engineering Research and Development*, vol. 17(03), 2021, pp 43-57.

4) Masum. M, Hoque. M.N, Akbar. M.A, Mahmud. Z. Amin. M.A, Razzaque. M.A and Ahsan. K (2020): Underground Coal Gasification (UCG) -A Pilot Study at Certain Area of Jamalganj Coal Basin, Joypurhat District, Bangladesh.Saudi Journal of Civil Engineering (SJCE) | Volume-4;-Issue-09. DOI : 10.36348/sjce.2020.v04i09.005.

5) Masum, M., & Akbar, M. A. (2019, March): The Pacific ring of fire is working as a home country of geothermal resources in the world. In *IOP Conference Series: Earth and Environmental Science* (Vol. 249, No. 1, p. 012020). IOP Publishing.

6) Masum M., Khan M.O.F. (2019): Generic Classification of Hoars in the Northeastern Part of Bengal Basin, Bangladesh. In: Kallel A. et al. (eds) *Recent Advances in Geo-Environmental Engineering, Geomechanics and Geotechnics, and Geohazards. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development)*. Springer, Cham.

7) Masum. M, Uddin MN, Haque M. N, Sabuj MN, Shahariar M H and Sheik. MR, (2016): Limestone Deposits and Its Economic Importance at Panchbibi Area of Joypurhat District, Bangladesh. *International Journal of Economy, Energy and Environment*. Science Publication Group, Vol. 1, No. 2, 2016, pp. 34-39. doi: 10.11648/j.ijeee .20160102. 13

8) Masum. M. (2015): Low-Temperature Geothermal system in Sedimentary basin and Their Prospect in Bangladesh, proceedings World geothermal congress, Melbourne, Australia, 19-25 April, 2015.

9) Masum. M, Khan. M.O.F, Haque M. N, Hasan M. F, Sayem. M.A, and Hossain. A 2015: Peat Resources, Condition of Deposition as Well as their Utilization, Hakaluki Haor, Moulvibazar and Sylhet District, Bangladesh. *International Journal of Science, Technology and Society*. Science Publication Group Vol.2,No.6,2014,pp.210-15.doi:10.11648/j.ijsts.20140206.18.

10) Masum. M, Khan. M.O.F, Faruk, Haque M. N, Hasan. M.F, Sayem. M.A and Hossain. A (2015): Peat Resources, Paleo-Environmental Interpretation as well as Their Utilization, Hakaluki Haor, Moulvibazar and Sylhet District, Bangladesh. *International Science Index, Geological and Environmental Engineering Vol-2, No-1*.

11) Masum. M, Md. Rahman. M, Khan. M.O.F, Haque M. N, Hasan. M. F & Rahman. M. A. (2015): Peat Resources, Paleo-environmental Interpretation as well as Their Utilization, Hakaluki Haor, Moulvibazar and Sylhet District, Bangladesh. Volume 15, Issue 2, Versions 1.0, Global Journals Inc. (USA).

12) **Masum. M, Khan M. O. F. (2015):** The Significance of Peat Deposits in Evaluating the Recent Environmental and Climatic Conditions in the Bangladesh Part of Bengal Basin. BASR01(04), Page 112-115. ASD Publisher.

13) **Masum. M, Haque M. N, Sayem. M.A, Rana.M. S, Hasan. M .F, Sheik. M. R and Paul. A. K (2015):** Peat Resources, its Quality and Condition of Deposition, Bijoy Nagar Upazila, B'Baria District, Bangladesh. BASR01(04), Page 124-128. ASD Publisher.

14) **Masum M. (2014):** Geothermal Gradient Calculation Method: A Case Study of Hoffel Low-temperature Field, South-east Iceland. International Journal of Geology and Mining. 4(6). 163-175.

15) **Masum. M. (2014):** Geothermal Gradient and Geology of Hoffel Low-temperature Field, South-east Iceland. Geothermal Training Programme (UNU-GTP) Iceland, 2013.

16) **Rahman. M. M and Masum. M. (2021):** WHITE CLAY DEPOSITS AT DIFFERENT AREAS OF MADHABPUR AND BAHUBOL UPAZILA, HABIGONJ DISTRICT, BANGLADESH. ISSN: 2320-5407 Int. J. Adv. Res. 9(07), 21-35. Article DOI: 10.21474/IJAR01/13095 DOI URL: <http://dx.doi.org/10.21474/IJAR01/13095>.

17) **Hoque. M.N, Akbar M. A, Masum M, Mahmud .Z. Mohammad, Shahariar H and Haque. A.J.M.E, (2021):** Possibility of Largest Underground Limestone Deposit and Coal Resource at Tajpur Basin in Bangladesh, GSJ: Volume 9, Issue 7, July 2021, Online: ISSN 2320-9186. www.globalscientificjournal.com

18) **Akbar. MA, Masum. M, Sarker.MN and Sayem. M.A (2017):** Foraminiferal Study at Birampur Area of Dinajpur District, Bangladesh, GEOEXPOSURE-Geology for sustainable development. Organized by department of Geology, University of Dhaka. Bangladesh.

19) **Haque M. N, Masum. M, Uddin M.N, Md. Sheik. MR, Sayem. M.A, Rana MS and Sabuj MN, (2013):** Peat Deposits at Bijoy Nagar Upazila, Brahmanbaria District, Bangladesh : A Potential local Source of Energy. Int. j. econ. environ. geol. Vol:4(2) 16-21.

20) **Uddin.M.N, Ali. R M E , Khan M.M.H, Sayem.M.A, and Masum.M (2011):** Trans-boundary landslide at Chandpur village of Tahirpur Upazil, Sunamgonj District, Bangladesh: A case study. Geological Society (BGS) journal, V-29-30.

21) **Uddin M.N, Ali. R M E , Khan M.M.H, Sayem. M.A. and Masum. M (2009):** Environmental Hazards Due to Quarries in North-Eastern Part of Bangladesh, Bangladesh Geological Society (BGS) journal, V-26-28.

22) **Uddin.M.N, Sayem. M.A, Masum. M and Md. Sohel Rana (2009):** Peat resources at Brahmanbaria Sadar, Brahmanbaria district, Bangladesh: Economic and Environmental Aspects. Proceedings-Geoscience for Global Development (GeoDev), volume-2.

***) I was directly involved in coordination, implementation and report preparation of the following research works which was controlled by the Economic Geology and Resources Assessment branch of GSB:

1. A project to a geological drilling hole (Geological Drill Hole/GDH-63/07) assess to the geology and economic aspects of Shamnagar-Chintamon Basin, Birampur, Dinajpur in Bangladesh (March to May 2007). Worked as site geologist.
2. A study for White Clay investigation at Haidhgaon and Sapmaraarea, Patiya upazila, Chittagong district, Bangladesh (January, 2008).Worked as field geologist.
3. A study to the investigation of tertiary coal deposits at Rangamati district Bangladesh (January, 2008). Worked as field geologist
4. An investigation work of Stone Quarry Identification at different upazilas of Bandarban Hill District, Bangladesh (Duration one month, 2009).Worked as party chief of this project.
5. An investigation work of environmental aspects for unplanned Gravel extraction at Sylhet and Sunamganj district, Bangladesh (15 days, 2010). Worked as field geologist.
6. A study of Silica Sand Quarry Identification at different area of Greater Sylhet and Comilla District, Bangladesh (Duration one month, 2009-10).Worked as field geologist.
7. A project (GDH-64/10) for the investigation of geothermal energy resources at Thakurgaon area in Bangladesh (March to June 2010) . Worked as site geologist.
8. An investigation work of area, extension and reserve of Gravel deposit at Patgram upazila, Lalmonirhat district, Bangladesh (30 days, 2010). Worked as site geologist.
9. Peat Exploration of 4000 hectares area of B, Baria district, Bangladesh duration about 4 month, (Dec. to March 2010-11). Worked as party chief of this project.
10. A project (GDH-66/12) for theinvestigation of economic deposits at Panchbibi area Joypurhat district in Bangladesh (March to June 2012). Worked as party chief of this project.
11. Peat Exploration at Hakaluki Haor and adjoining area of Sylhet Moulvibazar district, Bangladesh duration about 7 month, 2013-2014.Worked as party chief of this project.
12. The other responsibilities are to the investigation of Clinker's Clay at Bandarban area Bangladesh (December, 2010 and January 2011).Worked as field geologist.
13. White Clay Investigation at Madhabpur and Bahubol Area of Habigonj district, Bangladesh. (Duration one and half month, 2014-2015). Worked as field geologist.
14. White Clay Exploration at Haodha Beel Area of Tangail district, Bangladesh. (Duration one and half month, 2015-2016). Worked as party chief of this project.

15. A project to a geological drilling hole (Geological Drill Hole/GDH-70/15) assess to the geology and economic aspects of Tajpur basin at Badhalgasi upazila of Naogaon district in Bangladesh (Feb to June 2017). Worked as site geologist.
16. Peat Exploration of Noshundha River area of Kishoreganj District, Bangladesh duration about 1 month, (Dec. to Jan 2017). **Worked as party chief of this project.**
17. An investigation work of area, extension and reserve of Gravel deposit at Jadukata River, Tahirpur upazila, Sunamganj district, Bangladesh (15 days, 2018). **Worked as party chief of this project.**
18. A project to a geological drilling hole (Geological Drill Hole/GDH-72/15) assess to the geology and economic aspects of Roumari of Kurigram District in Bangladesh (April to June 2018). Worked as a site geologist.
19. A project to a geological drilling hole (Geological Drill Hole/GDH-73/19) assess to the geology and extension of Iron ore deposit at Alihat area of Hakimpur Upazila of Dinajpur District in Bangladesh (March to June 2019). **Worked as party chief of this project.**
20. A project to a geological drilling hole (Geological Drill Hole/GDH-74/20) assess to the geology and extension and reserve of Iron ore deposit at Alihat area of Hakimpur Upazila of Dinajpur District in Bangladesh (December, 2019 to February, 2020). Worked as a site geologist.
21. A project to a geological drilling hole (Geological Drill Hole/GDH-75/20) assess to the geology and extension and reserve of Iron ore deposit at Alihat area of Hakimpur Upazila of Dinajpur District in Bangladesh (July to September, 2020). **Worked as party chief of this project.**
22. A project to a geological drilling hole (Geological Drill Hole/GDH-76/21) assess to the geology and exploration of Iron ore deposit at Keshobpur area of Chirirbandhar Upazila of Dinajpur District in Bangladesh (July to September, 2020). **Worked as party chief of this project.**

**** It should be mentioned here that all of these research reports prepared and submitted to the certain authority. I was directly involved above these activities.**

***Besides them I have done many short field investigations for economic deposits purposes (Peat, White clay, Silica Sand and Gravel etc.) at different part of Bangladesh.*

Software Capability: MS word, Excel, Arc GIS, Rock works, Surfer, Strater, Erdas and Subsurface Vieweretc

Country Visited: India, Iceland, Australia, Germany, Sweden, Turkey, Finland (Helsinki), and Denmark (Copenhegen). UAE (Dubai), Qatar (Doha) and Malayasia (kualalampur).

International Conference:

- 1) Attend and paper present, World Geothermal Congress 2015 (WGC-2015) in Melbourne, Australia
- 2) Attend and paper present, World Geothermal Congress 2020+1 (WGC-2015) in Reykjavik, Iceland.
- 3) Attend Geodev (Geoscience for Global Development), 2009, Dhaka, Bangladesh.
- 4) Attend and paper present, International Conference on Earth & Environmental Science and Technology-2020, Dhaka, Bangladesh.
- 5) 17th Plenary Meetings of the OECD Initiative for Policy Dialogue on Global Value Chains, Production Transformation and Development Confirmation, November, 202, Paris, France (Virtually).
- 6) International Conference on Climate Change: Impacts and Responses, Department of Geology, University of Karachi, Pakistan (Virtually paper presented)

References:

1. D.r. Md. Nehal Uddin
Ex. Director General
Geological Survey of Bangladesh
[Email- nehal.gsb@gmail.com](mailto:nehal.gsb@gmail.com)

2. Sigurdur Gardar Kristinsson
Senior geologist
ISOR-Iceland GeoSurvey
[Email:sk@isor.is](mailto:sk@isor.is)

3. Dr. Kazi Matin Uddin Ahamed
Professor and Chairman
Department of Geology
University of Dhaka
Dhaka-1000, Bangladesh
[Email: kmahmed@du.ac.bd](mailto:kmahmed@du.ac.bd)

Editorial Board Member

International Journal of Energy and Environmental Science

<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=602>

I am the first author of submitted report named “Fisrt Iron Ore Discovery in Bangladesh” which is the main base of that discovery.