

## SK. MAFIZUL HAQUE

### *Curriculum Vitae*



**Name:** SK. MAFIZUL HAQUE

**Date of Birth:** 29/01/1981

**Full Address:**

A) **Permanent Address:** Dharma, Laldighi (West), Main Road, P.O. = Midnapore 721101, Dist. = Paschim Medinipur, State = West Bengal

B) **Office Address & Communication address:** Department of Geography, University of Calcutta, 4<sup>th</sup> Floor, Room number 505, 35. B. C. Road, Kolkata, 700019, State = West Bengal, Phone: 2461-4711/4959/5277 (extn. 370 & 371)

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**Academic Qualifications:**

Examination	Board / University	Year of Passing	Subjects studied	Division	Marks in %
Secondary	WBBSE	1997	Ben,Eng,L.Sc.,P.Sc.,Math,Hist,Geo	I	69.75
Higher Secondary	WBCHSE	1999	Ben,Eng,Bios,Geog,Pub.Adm,Hist.	I	67.70
Under Graduate	Vidyasagar University	2002	Geography (H)	I	61.35
Post Graduate	Vidyasagar University	2004	Geography and Environment Management	I	65.50
NET & JRF	UGC	2007	Geography	-	-
Ph. D.	University of Calcutta	2014	Geography	-	-
Diploma	IIRS-ISRO	2019	RS and GIS Application in Geosciences	A+	80

**Specialisation:**

- P.G. specialization = Remote Sensing and GIS Applications,
- Research specialization = Remote Sensing and GIS, Spatial Analysis, Urban Climate, Habitat Studies,

**Thesis Title:** *Urban Expansion around Kolkata Metropolitan Core and Its Impact on Land Use Changes: A Geo-spatial Analysis*

**Project: Co-PI**

Analysis and Assessment of Environmental Impact of River Mining at Regional Scale: Case Study along Ajay and Dwarakeswar River, West Bengal, Duration: May 2018 to February, 2020, Funding Agency: UGC- UPE-II,

**Award:** Best Poster *Application of Geospatial and Geophysical Techniques for Groundwater Zoning in the Active Tectonic Area of Lesser Himalaya, India*; in Centennial Conference on Recent Trends in Earth Science Research, Organised by Deptt. of Geology, BHU, October 2019, Varanasi

**List of Publication:**

**A) National Journal –**

Dey, S. and **Haque S. M.** (2003): Natural Environmental Influences upon the coastal Dunes Development around Digha-Shankarpur Area, West Bengal; *Journal of Scientific Development and Nature Environment Research*; Mid-wave; Vol. 2; pp. 6-10

**Haque, S. M.** (2005): Evaluation of IRS-1D Data for the Environment Management at Garhbeta I & II Block, Paschim Medinipore, West Bengal; *Journal of Scientific Development and Environmental Research*; The Cosmic Zone; Vol. 4 (2); pp. 68-71

**Haque, S. M.** (2011): Environmental Impact of the Removal of Top-Soil for Bricks Construction from the Agricultural Field: A Case Study of Midnapore Sadar Block, *Indian Journal of Regional Science*, Regional Science Association, India (RSA), Volume XXXXIII (1), 124 – 132

**Haque, S. M.** (2011): Three Dimensional Urban Expansion of Kolkata Metropolitan City in the Dynamics of Land Cover & Land Use Practices: A Case Study of Ward No. 75, KMC, *Journal of Landscape System and Ecological Studies*, ILEE, Vol. 34 (2), pp. 349-364

**Haque, S. M.** and S. Bandyopadhyay (2013): Application of Integrated Image Classification (IIC) Method for the Analysis of Urban Land Utilization Pattern of Kolkata Municipal Corporation, *Indian Journal of Spatial Science*, ISSS, Vol. 04 (2), Winter Issue, pp. 33-42,

Mistry, A. H. and **Haque, S. M.** (2016): Geo-spatial Analysis of Road Connectivity and Urbanization Induced Traffic Congestion in Baruipur Municipality, West Bengal, *Geographical Review of India*, *Geographical Society of India, Kolkata*, Vol. 78 (3), pp. 269-285.

**Haque, S. M.** (2017): Management of Flood Induced Sand Deposit Land through Agricultural Adaptation: A Study from Dulung River Basin, Proceeding volume of the refresher course 2017 on *Environmental Hazard and Disaster Management*, UGC-HRDC, University of Calcutta, pp. 46-55

Gayen, S.; Villalta, I. V. and **Haque, S. M.** (2019) Earthquake Hazard Scenario and Seismic Micro-Zoning Assessment in Malaga Province of Spain, *European Journal of Geography*, Vol. 10 (1), pp. 117-133, IF=1.2

Mishra, S. V.; **Haque, S. M.** (2022) Geographies of India-Nepal contestation, *Transactions. Inst. Indian Geographers*, ISSN 0970-9851, Vol. 44, No. 2, 2022, 259-268

**B) International Journal-**

Gayen, S.; Villalta, I.V.; **Haque, S. M.** (2022) Flood Risk Assessment and Its Mapping in Purba Medinipur District, West Bengal, India, *Water*, MDPI, March, 14 (7), 1049. <https://doi.org/10.3390/w14071049>, IF=3.53

Gayen, A. & **Haque, S.M.** (2022) Soil erodibility assessment of laterite dominant sub-basin watersheds in the humid tropical region of India, *Catena*, 106161, Vol. 213, IF=5.198

**Haque, S.M.** et al. (2022) Model based prioritization of urban space for the development of municipal services in Chandernagore Municipal Corporation (CMC), India, *Geocarto International*, <https://doi.org/10.1080/10106049.2021.2022774>, IF=4.889

Hasanuzzaman, M., Gayen, A., **Haque, S.M.** & Shit, P. (2022) Spatial modeling of river bank shifting and associated LULC changes of the Kaljani River in Himalayan foothills, *Stochastic Environmental Research and Risk Assessment*, <https://doi.org/10.1007/s00477-021-02147-1>, IF=3.379

Pal, B. K.; Mishra, S. V.; **Haque, S. M.** and Chakraborty, M. (2021). Reading Variegated Dispossession in an Asian Megacity, *Housing, Theory and Society*, Routledge: Taylor and Francis Group, Vol. 38, IF=2.317

Gayen, S.; Villalta, I. V.; **Haque, S. M.** (2021). Assessment of Social Vulnerability in Malaga Province, Spain: A Comparison of Indicator Standardization Techniques, *Revista de Estudios Andaluces (REA)* Vol. 41 (February), 87-108

Ghosh, D.; Mandal, M.; Karmakar, M.; Mandal, D.; Modak, P. Ghosh, B.; Mandi, S. and **Haque, S.M.** (2021) The prevalence of undernutrition among the Santal children and quality of life of their households: a study from hilly region of West Bengal, India, *Spatial Information Research*, October, 2021; Vol. 29 (5), 775-789

Gayen, A., **Haque, S.M.**, Mishra, S. V. (2021). COVID-19 induced lockdown and decreasing particulate matter (PM10): An empirical investigation of an Asian megacity, *Urban Climate*, Elsevier, Vol. 35, 100786, IF=6.663

Ranjeet S Sokhi, Vikas Singh,...**Haque, S. M.** ... (2021). A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. *Environment international*, 157, 106818, IF=13.352

Mishra, S. V., Gayen, A., **Haque, S. M.** (2020) COVID-19 and urban vulnerability in India, *Habitat International*, Elsevier, Vol. 103, 102230, IF=5.46

Mishra, S. V.; **Haque, S. M.** and Gayen, A. (2020). COVID-19 in India transmits from the urban to the rural, *The International Journal of Health Planning and Management*, Vol 35 (6), 1623-1625, IF=2.298

Gayen, S.; Villalta, I. V.; **Haque, S. M.** (2020) Comparative social vulnerability assessment in Purba Medinipur district, West Bengal, India; *European Journal of Geography*, February, Vol. 11 (1), 93-107, IF=1.2

**Haque, S. M.**; Kannaujiya, S.; Taloor, A. K.; Keshri, D.; Bhunia R. K.; Champati Ray P. K.; Chauhan P. (2020) Identification of groundwater resource zone in the active tectonic region of Himalaya through earth observatory techniques, *Groundwater for Sustainable Development*, Elsevier, Vol. 10. doi.org/10.1016/j.gsd.2020.100337

**Haque, S. M.**, Das, A. & Ruksana (2020) Carbon Footprint Reduction Instrument, In Hashmi, S.; Choudhury, I. A. ed. *Encyclopedia of Renewable and Sustainable Materials*, Oxford: Elsevier, Vol. 3. Pp. 300-311. <https://doi.org/10.1016/B978-0-12-803581-8.11042-2>

**Haque, S. M.** and S. Bandyopadhyay (2015): Soft-Computation of Spatio-Temporal Changes in Urban LCLU and Its Impact upon Water Resources: A Study of Kolkata Municipal Corporation, India, *5th International Conference on Water & Flood Management (ICWFM-2015)*, Bangladesh University of Engineering and Technology (BUET), Bangladesh, ISBN 978-984-33-8801-8, pp. 171-182

**Haque, S. M.** and S. Bandyopadhyay (2012): Identification of Metropolitan Core using Geo-spatial Data for Kolkata, India; *Scientific Annals of Alexandru Ioan Cuza*, University of Iasi, Vol. LVIII, s II-c, Geographiy Series, pp. 185 – 206, DOI: <http://dx.doi.org/10.15551/scigeo.v58i2.190>

**Haque, S. M.**; C. Debbarma, and S. Dey, (2010): Radiometric Environment and “R” Value Based Physical Zoning of an Urban Area: A Study from Landsat TM and ETM+, Band-III, *International Journal of Earth Science and Engineer*, Cafet-Innova Technical Society, Hyderabad, Vol. 3 (6) pp- 841- 847

Chakraborty, P and **Haque, S. M.** (2005): Cartography and Tourism Industry: Application of Cartography at Grass Roots Level, *Indian Cartographer-Journal of Indian National Cartographic Association*, Vol. 25, Pp-305-308

### **C) In Edited Book:**

Saha, S. Gayen, A. & **Haque, S. M.** (2022) Application of Ensemble Machine Learning Models to Assess the Sub-regional Groundwater Potentiality: A GIS-Based Approach, S. Mandal et al. (eds.), *Applied Geomorphology and Contemporary Issues*, Geography of the Physical Environment, [https://doi.org/10.1007/978-3-031-04532-5\\_15](https://doi.org/10.1007/978-3-031-04532-5_15)

**Haque, S. M.**, Das, A. & Ruksana (2020) Carbon Footprint Reduction Instrument, In Hashmi, S.; Choudhury, I. A. ed. *Encyclopedia of Renewable and Sustainable Materials*, Oxford: Elsevier, Vol. 3. Pp. 300-311. <https://doi.org/10.1016/B978-0-12-803581-8.11042-2>

Gayen, A.; **Haque, S. M.**; Saha, S. (2020) Modeling of Gully Erosion Based on Random Forest Using GIS and R, In Sheet, P. et al ed. *Gully Erosion Studies from India and Surrounding Regions*, Springer Nature, pp 35-44

Haldar, A.; Patra P. and **Haque, S. M.** (2020) Estimation of Surface Thermal Influx from Satellite Images in the Newly Developed Built-up Areas of South 24 Paraganas District, West Bengal, In Bandyopadhyay et al. ed book *Urbanization and Regional Sustainability in South Asia*, Chapter 6; Springer Nature. Pp. 75-86

**Haque, S. M.** and Alam, J. M. (2020) Micro Level Analysis of Road Connectivity and Its Spatial Variation in Kolkata Municipal Corporation (KMC) Area, In Bandyopadhyay et al. ed book *Urbanization and Regional Sustainability in South Asia*, Chapter 10; Springer Nature, pp. 157-176

Gayen, A.; **Haque, S. M.**; Saha, S. (2020) Modeling of Gully Erosion Based on Random Forest Using GIS and R, In Sheet, P. et al ed. *Gully Erosion Studies from India and Surrounding Regions*, Springer Nature, pp 35-44

Pourghasemi, H. R.; Gayen, A.; **Haque, S. M.**; Bai, S. (2020) Gully Erosion Susceptibility Assessment Through the SVM Machine Learning Algorithm (SVM-MLA), In Sheet, P. et al. ed. *Gully Erosion Studies from India and Surrounding Regions*, Springer Nature, pp 415 - 426

**Haque, S. M.** (2020) Assessing Infrastructural Encroachment and Fragmentation of East Kolkata Wetlands, In Bandyopadhyay et al. ed book on *Water Management in South Asia: Socio-economic, Infrastructural, Environmental and Institutional Aspects*, Springer Nature, Chapter 13, ISBN: 978-3-030-35236-3, January 2020, pp. 233-257

**Haque, S. M.** and Ghosh, S. (2019): Microstructural Evidence of Palaeo-coastal Landform from Westernmost Fringe of Lower Ganga-Brahmaputra Delta, Das et al. ed *Quaternary Geomorphology in India*, Springer Int. Pub. AG part of Springer Nature, 978-3-319-90427-6 doi.org/10.1007/978-3-319-90427-6, pp. 61-78

**Haque, S. M.** and S. Bandyopadhyay (2012): Spatial Disparities in Vertical Space-Use Due to Proliferation of Slums in Kolkata Municipal Corporation; in edited book *Demographic Challenges and Regional Disparities in India*, Global Book Org. New Delhi, pp. 251-267

**Haque, S. M.** (2014): Application of Soft computing Techniques for the Assessment of Declining Piezometric Condition in Kolkata Metropolitan Corporation Area, in edited book *Water Conservation, Research and Morphology of Tanks – A Remote Sensing, GIS and GPS Approach*, Rohini Nandan, pp. 51-73

#### **D) Book -**

**Haque, S. M.** (2018): Modern Perspective in Geography, Edited Book, Paschimbanga Anchalik Itihas O Loksanskriti Charcha Kendra, Kolkata, ISBN 978-93-88207-06-5

**Haque, S. M.** (2019): Issues in Resource Utilization, Edited Book published by Paschimbanga Anchalik Itihas O Loksanskriti Charcha Kendra, Kolkata, ISBN: 978-93-88207-30-0 and 978-93-88207-31-7

### **Professional Career:**

- Assistant Professor (Stage II), Department of Geography, University of Calcutta, 4<sup>th</sup> Floor, 35, B. C. Road, Kolkata 700 019, India; since 01/12/2015
- Assistant Professor (Stage I), Department of Geography, Aliah University Kolkata, India; from 13/07/2012 to 30/11/2015
- Cartographer, Department of Geography, University of Kalyani, Nadia from 2005-2006 used software: MAP INFO, QGIS, ARC GIS, ERDAS for geospatial data analysis
- Engaged in RS and GIS related workshop/carrier development programme (as resource person) at various Universities as well as Govt. department
- Conducted field study, environment audit and engaged in data analysis, map output in various project at WBPCB, Kolkata
- Delivered invited lectures in seminars, conference and lecture series at various institution.
- BOS member at various institutions, Department of Geography, Geoinformatics,
- Attended ICSSR sponsored Capacity Building Programme, 2nd – 14th April, 2018, organized by Department of Geography, Aligarh Muslim University, Aligarh, Uttar Pradesh

### **Assignments:**

- Member, State Steering Committee, Department of Environment, Govt. of West Bengal
- Assistant Secretary (Finance), Geographical Society of India, Kolkata since 2018
- Co-ordinator, IIRS Out Reach Programme, ISRO, Govt. of India, Calcutta University unit since 2016
- Former President, The Jungles', renowned wildlife conservation NGO in India,
- Convener, Two-Day National Seminar and Env't. Study; Indian Social Science Congress and Humanities Congress 2018 (Geography Chapter); and Workshop on Qualitative and Quantitative Techniques in Geospatial Sciences Organized by Dept. of Geography, University of Calcutta in association with ILEE, Kolkata, 2018-2019
- Attended QIP Short Term course in IIT Kharagpur, 16<sup>th</sup> – 21<sup>st</sup> May, 2016 on '3D Reconstruction using Geospatial Data and Image Analysis for Situational Awareness in Hazardous Environment',
- Partially engaged in the Deptt. of Geography in the Presidency University, Kolkata; Aliah University, Kolkata and Jadavpur University, Kolkata as a Guest Teacher
- Convener, Two-Day National Seminar and Env't. Study; Indian Social Science Congress and Humanities Congress 2018 and 2019 (Geography Chapter); and Workshop on Qualitative and Quantitative Techniques in Geospatial Sciences Organized by Dept. of Geography, University of Calcutta in association with ILEE, Kolkata, 2018-2019

**I, hereby declare that all the information furnished above, are true to the best of my knowledge and belief.**

**Date: 25/12/2022**

**Place: Kolkata**

*Sk. Mafizul Haque .*

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