

DEPARTMENT OF URBAN AND REGIONAL PLANNING (U.R.P.), BUET

1. Type of Organisation : Autonomous
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4. Head of the Organisation (Name and Designation) : Dr. M.A. Mohit
Professor and Head
5. Objectives : The Department of Urban and Regional Planning at BUET is primarily concerned with the human settlement development planning at the urban, rural, regional and local levels. The activities of the Department focuses on physical, social, economic and political aspects of human settlements and specialises on the subjects like Urban Planning, Rural Planning, Regional Planning, Transportation Planning, Housing, Environmental Planning, Development Planning, etc. It also focuses on physical environment to a broader sense with more explicit concern for social and economic policies, employment generation, poverty alleviation, income distribution, resource development, political and institutional aspects of development, etc. In brief, the overall activities of the Department are planned to meet the demand for skilled manpower in human settlements planning, development management and other related professional fields by providing a set of widely applicable training and experience and their application to urban, rural and regional problems.

The expertise of the teachers of this Department and other facilities available in the University are utilised to solve the problems of and to provide up-to-date technological knowledge to various organisations of the country. In addition to its

own research programs, the Department undertakes research programs sponsored by outside organisations. The Department is persistent in its efforts to improve its research facilities to meet the growing technological challenges confronting the country.

6. Recent Research :
Publication
Of the Organisation (1996-99)
- 1) A Study of Solid Waste Management Through Community Based Organisations (CBOs) in Uttara, Kalabagan and Mohammadpur Area of Dhaka City.
 - 2) Impact of Rural Roads on the Development of Secondary Growth Centres of Manikganj District.
 - 3) Effects of Proximity of Neighbourhood Facilities and Land Uses on Residential Rent: GIS-Aided Study on Dhaka City.
 - 4) An Economic Analysis of the Trends and Patterns of Urbanisation in Bangladesh.
 - 5) Planning for a Sustainable Water Supply System for Barisal Pourashava.
 - 6) Trend Hazard Modelling in Dhaka City by Using GIS.
 - 7) Trend of Development in Dhanmondi Residential Area of Dhaka City.
 - 8) Land Suitability Analysis for Urban Development in a Secondary Town in Bangladesh.
 - 9) Rural Poverty Reduction Through Food Aided Development Programmes in Dhaka.
 - 10) Socio-Economic Impacts of Shrimp Culture in Khulna Region.
 - 11) Management of Natural Drainage System in Khulna City.
 - 12) Factors Influencing the Location and Distribution of Informal Kutchra Bazars in Dhaka City.

- 13) Islam, M.S. 1996, Attended Regional Seminar on Promotion of Environmentally Sound and Healthy Cities and MECP Euro-Asian Forum II, Meeting, 15-18, January, 1996, at UN Centre, ESCAP, Bangkok, Thailand.
- 14) Islam, M.S. 1995, A paper entitled "Environmental Problems of Dhaka City: A case of high density Area" was accepted for presentation in the 3rd International Congress of Asian Planning Schools held in National University of Singapore, Sept. 1995. The Paper was circulated among the distinguished Authors in the Congress.
- 15) Islam, M.S. 1993, Participated as a delegate in the Second International Congress of Asian Planning Schools held in Hong Kong University, August 25-28, 1993. Presented a paper on "Environment for densely populated areas of Bangladesh with special reference to Dhaka and Mymensingh".
- 16) Islam, M.S. 1991, Participated as UNESCO delegate at "International Seminar on Sustainable Development: Urban Environment 2000" organised by the Indian Environmental Society at Agra, 18-20 November 1991. Presented a paper titled "Urbanisation and the Environment".
- 17) Quium, A.S.M.A. (1995). 'Road Accidents in Bangladesh', IATSS Research, 19(1), 84-85.
- 18) Quium, A.S.M.A. and Y. Tanaboriboon (1994). 'A decision-making model for a strategic approach towards bus transit planning and management, Bangkok case study', IATSS Research, 18(2), 40-49.
- 19) Tanaboriboon, Y., A.S.M. Abdul Quium, and C. Changsingha (1993). 'Performance Indicator Analysis: A Management Tool for the Improvement of Bus Transit Operation in Bangkok', Journal of Advanced Transportation, 27(2), 171-187.

- 20) Quium, A.S.M.A. and Y. Tanaboriboon (1994). 'Bus Operation and Service Level Problems Bangkok Experience', Proceedings of the Symposium on Asian Urban Transportation... Bangkok Perspective, Bangkok, Thailand, 27-28 July, 141-155.
- 21) Quium, A.S.M.A. (1994). 'Integration of Motorised and Non-Motorised Transport Modes: An Alternative Strategy for Creating a Sustainable Urban Transport System for Dhaka, Bangladesh', paper presented at the International Seminar on Urban Development, Transport and Environment, Organised by UNCRD, 4-8 June, Sagami-hara, Japan.
- 22) Quium, A.S.M.A. (1994). 'GIS and Remote Sensing: New "High-Tech" Tools for Urban Planning in Bangladesh', paper presented at the International Seminar on Remote Sensing Data and G.I.S. for Urban Planning and Development, Organised by School of E.R.D. and School of Management, A.I.T., 26 October - 1 November 1994, Bangkok, Thailand.
- 23) Quium, A.S.M.A. (1995). 'Dhaka Metropolitan Development Plan - Review of structure and urban area plans, Sub-sector: Transport', paper presented at the national seminar on Dhaka metropolitan Development Plan, organised by the World Bank, UNDP, RAJUK, and Government of Bangladesh, 3-7 December, Dhaka, Bangladesh.
- 24) Mohammad A. Mohit, 1992, "Institutional Arrangements for the Development of Dhaka Metropolitan Area: Problems and Issues", N. Islam and A .I. Chowdhury (eds.), **Urban Land Management in Bangladesh**, Dhaka: Ministry of Land/ UNESCAP, 1992, pp. 99-108.
- 25) "Mohammad A. Mohit, 1992, Rural Housing in Bangladesh: Magnitude of the Problem

- and Policy Directions", **Rural Housing News**, Vol.1, No.4, September-October, 1992, pp.13-15.
- 26) Mohammad A. Mohit, 1993, "Socio-economic and Environmental Impacts of Flood Control Facilities in Dhaka City", Proceedings of the seminar Disaster Management in Metropolitan Areas for the 21st Century, **IDNDR Aichi/ Nagoya International Conference 1993**, Japan, 1993, pp.77-97.
- 27) Mohammad A. Mohit and G. Mustafa, 1995, "Institutional Development for Flood Disaster Management and Rural Development in Bangladesh: A Case Study of Kanchanpur Union", **Asian Affairs**, Volume 17, No.2, April-June, 1995, pp.46-55.
- 28) Mohammad A. Mohit, 1995, "Solid Waste Management in Dhaka City - A Case of Neighbourhood Participation in the Collection System", paper published in the **WORLD HABITAT DAY Seminar on Our Neighbourhood**, October, 1995, Dhaka, pp.16-19.
- 29) Mohammad A. Mohit and Golam Rahman, 1995, "Governance (Urban Management - Structure and Implementation)", paper published in the **National Seminar on Dhaka Metropolitan Development Plan 1995-2015**, organised by MHPW DMDP/ RAJUK/ UNCHS/ UNDP/WB, December 1995.
- 30) Jahan Sarwar, "Disaster and Socio-Economic Consequences", in Development of Modules for Training on Integrated Approach to Disaster Management and Regional/Rural Development Planning, Phase III, United Nations Centre for Regional Development, Nagoya (Based on papers presented during the UNCRD-CIRDAP Workshop and Seminar, Phase III, held in Dhaka and Chittagong on 25-30 January, 1992) Change", in **The Bangladesh Urban Studies**, Vol.1, No.1, December.

- 31) Jahan Sarwar, "Regional Impacts Assessments : An Alternative Approach" *Oriental Geographer*, Vol. 37, Nov- 2, 1993.
- 32) Jahan Sarwar, " Judgements and Actions Taken by the People after the Cyclone (April, 1991) Warnings in Bangladesh", *Proceedings of the Fifth International Research and Training Seminar on Regional Development Planning for Disaster prevention held from 9 to 11 November, 1991 in Nagoya, Japan (Published in 1993).*
- 33) Jahan Sarwar, "Development of Databases, Database Frameworks and Key Indicators for Integrated Disaster Management and Rural Development", *Proceedings of UNCRD-CIRDAP Workshop on development of Modules for Training on Integrated Approach to Disaster Management and Regional/ Rural Development Planning, Phase IV, held in Dhaka on 7 - 11 February, 1993.*
- 34) Jahan Sarwar, "The Economy of Dhaka Metro-politan Area : Growth and Change", *The Bangla-desh Urban Studies*, Vol.1, No.1, 1992 (Published in (1994).
- 35) Jahan Sarwar, "Urban Planning in Bangladesh : A Review" in Nazrul Islam (Ed.) : *Urban Research in Bangladesh Centre for Urban Studies, 1994.*

Completed Research

- 36) Master Plan of Flood Shelter functioning as Community centre for Disaster Management and Rural Development Home Based Tripe Generation Modelling for Dhaka City.
- 37) Informal sector activities of a medium-sized town in Bangladesh-A case study of Faridpur town.
- 38) Environmental Aspects of Shrimp Cultivation in Coastal Bangladesh-A Case Study in Cox's Bazar district.

- 39) Regional Planning : An Evaluation of the Incentives for Industrial Dispersion in Bangladesh : Case Study of Selected Northern Urban Centres.
- 40) Spatial Distribution of Residential Hotels in Dhaka City.
- 41) The Distribution Process of Khasland and its Impact on Socio-Economic Conditions of Clustered Village Programme.
- 42) Factors Influencing the Location of Textile Dyeing and Printing Industries in Bangladesh.
- 43) Institution Development Program for Flood disaster Management and Rural Development in Bangladesh.
- 44) Effects of greater Dhaka Town Protection Embankment on the changes in the trend of Settlement Pattern and Land use in the fringe areas of Embankment.
- 45) Socio-Economic and Environmental Impacts of Greater Dhaka Flood Protection Embankment on the Adjacent Areas.
- 46) Location of Drugs and Pharmaceutical Industries Bangladesh.
- 47) Subletting of Houses in the Formal Sector of Dhaka City.
- 48) Socio-Economic and Environmental effects of the 1991 Cyclone in coastal Bangladesh : A local level analysis.
- 49) An Analysis of informal settlement in a Medium sized town of Bangladesh.
- 50) Cyclone Shelter Planning for Disaster Management and Community Development in Bangladesh-A case study of Cox's Bazar.
- 51) Institutional Framework for Cyclone Disaster Management in Bangladesh.

52) Social Forestry Programme for Coastal Protection Against Cyclone Surge A Study of Solid Waste Management for Environmental Improvement of Dhaka City.

53) Planning Implications of Industrial Waste management in Tejgaon Industrial Area of Dhaka City.

54) Factors Influencing Location and Growth of light engineering industries in Dhaka city.

55) Developing Integrated Environmental Management Policies for Meghna-Dhonagoda Irrigation Project in Bangladesh.

56) Formulation of Planning and Land-use Policies for Disaster Management in Chittagong Metropolitan of Bangladesh.

7. On-going Research Projects

:

- 1) Influence of feeder roads on location patterns, functional characteristics and catchment areas of service centres.
- 2) Parking facilities in Motijheel Commercial area of Dhaka city Problems, Issues & Approaches.
- 3) Environmental improvement in Densely populated urban Residential areas of Dhaka city.
- 4) The Role of Double Decker buses as mode of public transportation in Dhaka city.
- 5) Modal Choice Behaviour for Rickshaw in Dhaka City.
- 6) Factors Influencing the location pattern of Garment Industry in Dhaka City.
- 7) A Study of Slum Upgradation Through Community Based Organisations (CBOs) in Dhaka City.
- 8) Development of an Information System for the Local Level Disaster Management in Bangladesh.

- 9) Factors Influencing Location and Growth of light engineering industries in Dhaka city.
8. Future Plan of Research : Not Available.
9. Chief Researchers :
1. **Golam Rahman**, Professor, MA (Dhaka), MCRP (Oklahoma), PhD (Jahangirnagar) Spec: Rural Planning & Planning Law and Planning Administration.
 2. **Mir Shahidul Islam**, Professor., BSc Engg (BUET), MPP (BUET) PhD (J.Nehru U., India), Spec: Urban/Rural Development Planning.
 3. **A.S.M. Abdul Quium**; Professor; BSc Engg (BUET), MURP (BUET), MTD (Liverpool), Dr.Eng. (AIT); Spec: Transportation Planning Computer Applications in Planning.
 4. **Mohammad Abdul Mohit**, Professor; MA Rajshahi, MURP (BUET-Sheffield), M.Phil (Rajshahi) PhD (Sheffield); Spec: Regional Planning, Disaster Management, Urban Plan-ning and Administration Implementation.

Publications:

- 1) Mohit, M.A. and Mia, M., 1996, "Factors Affecting the Performance of Flood Control, Drainage and Irrigation Projects in Bangladesh: A Case Study", Journal of the Civil Engineering Division, The Institution of Engineers, Bangla-desh, Vol. CE 24, No.1, 1996, pp.1-9.
- 2) Mohit, M.A. and Mustafa, M.G., 1997, "Institu-tional Development Programme for Local Level Flood Disaster Management and Rural Development in Bangladesh", Flood Disaster Management and Environmental Impact Studies for Urban and Rural Areas, UNCRD (Japan) Proceedings Series No.17, Vol.1, 1997, pp.81-96.

- 3) Mohit, M.A. and Hoque, A., "Cyclone Shelter Planning for Disaster Management and Community Development in Bangladesh: A Case Study of Khurushkul Union of Cox's Bazar District", Towards an Improved System for Cyclone Disaster Management in Bangla-desh, UNCRD (Japan) Proceedings Series No. 17, Vol., 2, 1997, pp.1-29.
- 4) Mohit, M.A. and Reza, M., "Formulation of Planning and Land Use Policies for Disaster Management in Bangladesh: A Case Study of Chittagong Metropolitan Area", Towards an Improved System for Cyclone Disaster Management in Bangladesh, UNCRD (Japan) Proceeding Series No. 17, Vol.2, 1997, pp.111-135.
- 5) Mohit, M.A. and others, Flood Plain Zoning Based on Analysis of Flood Damage to Agricultural Production, Co-autorof the final report prepared under Japan Bangladesh Joint Study Projects on Flood, sponsored by JICA, Japan and BUET, Dhaka, 1997.
- 6) Mohit, M.A. 1998, "Small Scale Power Generation Project: Some Policy Perspectives," Pros-pects of Small Hydropower Generation In Bangladesh, proceedings of the workshop held at BEUT, Dhaka, May 18-19, 1998, pp. 180-84.
5. **Mr. A.S.M. Mahbub-Un- Nabi**, Professor, BSc Engg (BUET), MPP (BUET), Dip. in Dev. Plan, (London), Spec: Urban Planning, Housing, Urban Land Policy.
6. **Dr. Sarwar Jahan**, Professor, MA (Dhaka), MURP (BUET), MA (Waterloo), PhD (Illinois); Spec: Urban and Regional Analysis, Development Planning Model.
- 1) Jahan, S., and Farzana Samiruddin, "Sub-letting as Housing Subsystem in Dhaka City", Oriental Geographer, Vol., 40, Nos., 1 & 2, January and July, 1996.

- 2) Jahan, S., "Spatial Distribution of Community Facilities in Dhaka City," The Bangladesh Urban Studies, vol.3, No.2, June, 1996.
- 3) Hafiz, Roxana, Jahan, S., and Z.H. Khan, "Effects of Greater Dhaka Town Protection Embankment on the Changes in the Trend of Settlement Patterns and Land Use in the Fringe Areas of Embankment" in Flood Disaster Management and Environmental Impact Studies for Urban and Rural Areas, United Nations Centre for Regional Development (UNCRD Nagoya, 1997 (Proceedings of the UNCRD-BUET International Seminar on Improved System for Disaster Mitigation and Environmental Management in Bangladesh, held in Dhaka on February 24-26, 1997).
- 4) Jahan, S., and Dil Rowshan, "Institutional Framework for Cyclone Disaster Management in Bangladesh Including Awareness Generation, Warning Dissemination and Planned Evacuation" in Towards an Improved System for Cyclone Disaster Management in Bangladesh, United Nations Centre for Regional Development, Nagoya, 1997 (Proceedings of the UNCRD-BUET International Seminar on an Improved System for Disaster Mitigation and Environmental Management in Bangladesh, held in Dhaka on February 24-26, 1997).
- 5) Jahan, S., "Development of an Information System for Local Level Cyclone Disaster Management in Bangladesh", in Towards an Improved System for Cyclone Disaster Management, Nagoya, 1997 (Proceedings of the UNCRD-BUET International Seminar on an Improved System for Disaster Mitigation and Environmental Management in Bangladesh, held in Dhaka on February 24-26, 1997).
7. **Roxana Hafiz**, Assistant Professor. BArch (BUET), MURP (BUET), Spec: Low Income Housing Urban Design.

Publications:

- 1) Hafiz, Roxana, Jahan, S., and Z.H. Khan, "Effects of Greater Dhaka Town Protection Embankment on the Changes in the Trend of Settlement Patterns and Land Use in the Fringe Areas of Embankment" in Flood Disaster Management and Environmental Impact Studies for Urban and Rural Areas, United Nations Centre for Regional Development (UNCRD Nagoya, 1997 (Proceedings of the UNCRD-BUET International Seminar on Improved System for Disaster Mitigation and Environmental Management in Bangladesh, held in Dhaka on February 24-26, 1997).
8. **K.M. Maniruzzaman**, Assistant Professor. BArch (BUET), MURP (BUET) M. Engg. (Tokyo) Ph.D. (Tokyo). Spec: Urban Planning, GIS, computer applications in planning disaster management.

Publications:

- 1) Maniruzzaman, K.M. and Okabe, A. (1998) "GIS for Disaster Management in Bangladesh" Proceedings of the International Conference of Modelling Geographic and Environmental Systems with GIS, June 22-25, Hong Kong.
- 2) .Maniruzzaman, K.M. (1996) "Cyclone Wind Damage in Coastal Bangladesh", Journal of the Graduate School and Faculty of Engineering (B), Volume XLII no. 4, pp 411-419.
- 3) Asami, Y. and Maniruzzaman, K.M. (1996) "A Statistical Test of the Critical Shape Hypothesis for Residential Lots" Environment and Planning B: Planning and Design Vol. 23 p.575-590.
9. **Akther Shakil**, BURP (Khulna), MSc (KTH, Sweden). Spec: Geographic Information System, Environmental Planning.

Publications

- 1) Akther Shakil, Solid Waste Management in Dhaka need for a change for Sustainable development in Nils Viking & Karin Wallgren (eds.) "Project Cycle and Implementation" ISBN 91-7170-783-2; Stockholm 1997.

10. **Asif-Uz-Zaman Khan**, Lecturer, BSC Engg (BUET), MURP (Hons) (Sydney). Spec: Environmental Issues.

11. **Ishrat Islam, Lecturer**, B. Arch (BUET), MA (Urban Planning) (USA). Spec: Urban Land use Planning Design.

12. **Gulsan Ara Parvin**, Lecturer, BURP (Khulna), M.Sc. (AIT, Bangkok). Spec: Rural and Regional Development Planning.