

11. Employment Record *[Starting with present position, list in reverse order every employment held by expert since graduation, giving each employment (see format below): dates of employment, name of employing organization, position held.]:*

From: 13-08-1990 To: Up to Date
Employer: Bangladesh University of Engineering and Technology (BUET)
Position held: Research Professor, Institute of Appropriate Technology

From: 26-12-1983 To: 12-08-1990
Employer: Bangladesh University of Engineering and Technology (BUET)
Position held: Professor, Chemical Engineering Department

From: 08-12-1977 To: 25-12-1983
Employer: Bangladesh University of Engineering and Technology (BUET)
Position held: Associate Professor, Chemical Engineering Department

From: 23-08-1973 To: 07-02-1977
Employer: Bangladesh University of Engineering and Technology (BUET)
Position held: Assistant Professor, Chemical Engineering Department

From: 01-02-1968 To: 22-08-1973
Employer: Bangladesh University of Engineering and Technology (BUET)
Position held: Lecturer, Chemical Engineering Department

12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned *[Among the assignments in which the expert has been involved, indicate the following information for those assignments that best illustrate the expert's capability to handle the tasks listed under point 12.]*

Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
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- (1) **Name of Assignment or Project:** Strengthening of Hydrocarbon Unit, Energy & Mineral Resources Division for Monitoring and Supervision of PSCs and Other Contracts.
Year: March 2010 to September 2010
Location: Dhaka
Client: Gustavson Associates, 5757 Central Avenue, Boulder, Co 80301, USA
Main project features: Review of Upstream Activities, Existing PSCs, Other Relevant Contracts, Monitoring, Auditing and Cost Management.
Position held: Energy Policy Expert (International Consultant)
Activities performed: Prepared Reports on Specific Topic along with Other International & National Experts.
- (2) **Name of Assignment or Project:** Gas Pricing Study (Contract No. A20568, RSC-C92315)
Year: 2009-2010
Location: Dhaka
Client: Asian Development Bank
Main project features: Review Energy Pricing Status of Bangladesh with Special Emphasis to Pricing of Natural Gas.
Position held: Energy Sector Specialist
Activities performed: Prepared Report on Natural Gas Pricing in Bangladesh.
- (3) **Name of Assignment or Project:** Revision of Natural Gas Tariff Proposal submitted by Petrobangla to BERC.
Year: September, 2008
Location: Dhaka, Bangladesh
Client: Bangladesh Energy Regulatory Commission (BERC)
Main project features: Revision of Tariffs of natural gas submitted by Petrobangla to BERC.
Position held: Expert Witness of BERC
Activities performed: Assisted BERC and Petrobangla to clarify various issues came out during hearing of Petrobangla's Natural Gas Tariff Revision Proposal (Reference: BERC order No.: 2008/2, date: 30 November, 2008).

- (4) **Name of Assignment or Project:** Bangladesh Gas Fields Company Ltd. (BGFCL)
Year: 2008-2009
Location: Birashar, Brahmanbaria-3400, Bangladesh
Client: BGFCL, Petrobangla
Main project features: Overall Management of Different Aspects of the Company.
Position held: Member, Board of Directors
Activities performed: Under Company's Act 1994, Board of Directors is Responsible for Overall Management of the Company (BGFCL).
- (5) **Name of Assignment or Project:** ADB TA No. 4952-BAN: Preparing the Gas Sector Development Program (Clean Fuel Sector Development Program), Bangladesh
Year: 2008-09
Location: Dhaka.
Client: ADB and Petrobangla under Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main Project Feature: Review of policy reforms in the gas sector and project preparation.
Position Held: Natural Gas Policy Specialist (Deputy Team Leader)
Activities Performed:
- Reviewed the ongoing policy reforms in the gas sector and other relevant areas and assisted in the preparation of a road map for natural gas sector development.
 - Assisted the international consultant in analyzing the socio economic implications of the most likely sector reforms agenda for the gas sector.
 - Supported assessing the macro-economic and sector context of the proposed project within the context of ongoing and future sector reforms.
 - Provided inputs to the policy matrix for the natural gas sector reforms and development.
- (6) **Name of Assignment or Project:** Review of Draft Coal Policy.
Year: June-December 2007
Location: Dhaka.
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main Project Feature: Reviewed the Draft and Prepared Final Draft of Cola Policy (Version VIII, submitted to Government in January, 2008).
Position Held: Member of Review Committee
Activities Performed: Assisted the Committee to Prepare Coal Policy as an Integral Part of National Energy Policy.
- (7) **Name of Assignment or Project:** Selection of Chairman & Members of Bangladesh Energy Regulatory Commission (BERC).
Year: 2003-2007
Location: Dhaka.
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main Project Feature: Selection of Appropriate Persons on the Basis of Interview.
Position Held: Member (in Different Selection Committees Constituted during 2003-2007)
Activities Performed: Assisted the Committee to Select Appropriate Persons as per BERC Act 2003.
- (8) **Name of Assignment or Project:** SAARC Energy Center (SEC), Islamabad.
Year: 2007-2009
Location: Islamabad, Pakistan.
Client: SAARC Energy Center (SEC), Islamabad.
Main Project Feature: Policy Formulation, Approval of Research Program.
Position Held: Member (Chairman, during 2007-2008), Governing Board
Activities Performed: Selected Professional Staffs, Reviewed Progress of ADB Regional Technical Assistance for SAARC Energy Center (RETA6368), Approved Energy Research Projects for 2008, Assisting Implementation of Research Projects.

- (9) **Name of Assignment or Project:** Bangladesh Agricultural Research Council (BARC)
Year: 2007-2010
Location: Dhaka
Client: Bangladesh Agricultural Research Council (BARC), Ministry of Agriculture
Main Project Feature: Formulation and Approval of Research Policy.
Position Held: Member, Governing Body
Activities Performed: Advised on Agricultural Research Policy and Program
- (10) **Name of Assignment or Project:** Sylhet Gas Fields Ltd. (SGFL)
Year: 2007-2008
Location: Sylhet, Bangladesh
Client: SGFL, Petrobangla.
Main project features: Overall Management of Different Aspects of the Company.
Position held: Member, Board of Directors
Activities performed: Under Company's Act 1994, Board of Directors is Responsible for Overall Management of the Company (SGFL).
- (11) **Name of Assignment or Project:** Review Existing Tariff Policy of Natural Gas
Year: November 2006
Location: Dhaka
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Rationalize Natural Gas Tariff.
Position held: Member
Activities performed: Reviewed Existing Tariff Policy and Made Suggestions.
- (12) **Name of Assignment or Project:** Evaluation of the Feasibility Study Report and Scheme of Development of Coal Extraction Project of Phulbari Coal Basin, Submitted by Asian Energy Corporation (Bangladesh) Pty.
Year: November 2005-September 2006
Location: Phulbari Coal Basin, Dinajpur, Bangladesh
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Studied Mining Law, Rules, Feasibility Report, EIA Reports.
Position held: Chairman Expert Committee
Activities performed: Submitted the Evaluation Report to EMRD, MOPEMR on 20 September, 2006.
- (13) **Name of Assignment or Project:** Bangladesh Petroleum Exploration and Production Company (BAPEX)
Year: 2005-2008
Location: Bangladesh
Client: BAPEX
Main project features: Overall Management of Different Aspects of the Company.
Position held: Member, Board of Directors
Activities performed: Under Company's Act 1994, Board of Directors is Responsible for Overall Management of the Company (BAPEX).
- (14) **Name of Assignment or Project:** Enquiry Committee to Identify the Causes of Blow out Occurred at Chatak Gas Field on 24 June 2005 during exploration drilling by NIKO Resources (Bangladesh) Ltd. located at Doara Bazar, Upazila, Sunamganj District.
Year: June-September 2005
Location: Doara Bazar, Upazila, Sunamganj District, Bangladesh
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Study and Identify the Causes of Blowout
Position held: Member of Enquiry Committee.
Activities performed: Enquiry Report was Submitted to Government in September, 2005.

- (15) **Name of Assignment or Project:** Negotiation of Contract Proposal on Production, Management and Maintenance of Barapukuria Coal Mine submitted by China National Import and Export Corporation (CMC).
Year: March-June 2005
Location: Barapukuria Coal Mine
Client: Barapukuria Coal Mining Company Ltd. (BCMCL), Petrobangla
Main project features: Reviewed the Contract Proposal of CMC as per Bid Document.
Position held: Convener of Evaluation Committee
Activities performed: Final Contract Document was Prepared for Barapukuria Coal Mining Company Ltd. (BCMCL), Petrobangla.
- (16) **Name of Assignment or Project:** Formulate Policy on Non-Exclusive Speculative Seismic Survey in Offshore Areas of Bangladesh
Year: March 2006
Location: Dhaka
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Prepare the Draft Policy
Position held: Member
Activities performed: Report on Non-Exclusive Speculative Seismic Survey in Offshore Areas of Bangladesh.
- (17) **Name of Assignment or Project:** Estimation of Natural Gas Demand, Reserve and Resources Potential in Bangladesh.
Year: 2001-02
Location: Bangladesh
Client: Energy and Mineral Resources Division, Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Analysis of Data and Preparation of Report.
Position held: Member.
Activities performed: Report on Natural Gas Demand, Reserve and Resources Potential in Bangladesh was submitted in August 2002.
- (18) **Name of Assignment or Project:** Energy Strategy for Rural Bangladesh
Year: 2001
Location: Dhaka, Bangladesh
Client: World Bank
Main project features: Energy Strategy and Policy Planning
Position held: Consultant (Special Study)
Activities performed: Prepared a Background Paper on Energy Strategy for Rural Bangladesh.
- (19) **Name of Assignment or Project:** Analysis of Energy Use Patterns in Rural and Urban Areas of Chittagong Hill Tracts Region (Hindu-Kush Himalayan Region) of Bangladesh
Year: 1997
Location: Bangladesh
Client: International Centre for Integrated Mountain Development (ICIMOD), Nepal
Main project features: Study and Analyze of Energy Use Patterns of Chittagong Hill Tracts Region
Position held: Research Leader
Activities performed: Prepared a Report on Analysis of Energy Use Patterns in Rural and Urban Areas of Chittagong Hill Tracts Region (Hindu-Kush Himalayan Region) of Bangladesh
- (20) **Name of Assignment or Project:** Formulation of Pricing Policy of Natural Gas
Year: 1995-97
Location: Bangladesh
Client: Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Visited World Bank, US DoE, Washington, USA; Ministry of Petroleum and Natural Resources, Islamabad, Pakistan to be familiarized with Pricing Policy of Natural Gas
Position held: Member (Responsible for Drafting the Report)
Activities performed: Report of the National Gas Pricing Policy Formulation Committee (Final Draft) was submitted to the Ministry of Energy and Mineral Resources on 9 April 1997.

- (21) **Name of Assignment or Project:** Formulation of National Energy Policy
Year: 1993-95
Location: Bangladesh
Client: Ministry of Power, Energy and Mineral Resources (MOPEMR)
Main project features: Prepare National Energy Policy
Position held: Member (Convenor Editing Sub-Committee).
Activities performed: Draft Policy was Prepared and Presented to the Cabinet for Discussions which was Subsequently Revised and the Draft Policy was Approved by the Cabinet in September 1995 and was Published in the Bangladesh Gazette on 15 January 1996.
- (22) **Name of Assignment or Project:** Status Report on Energy Sector
Year: 1990-91
Location: Bangladesh
Client: Planning Commission, Government of Bangladesh
Main project features: Prepare Report on Energy Sector.
Position held: Member (Worked as the Convenor of Drafting Committee).
Activities performed: Task Force Report was published as a Book titled: Report of the Task Force of Bangladesh Development Strategies for the 1990s, Vol. 3, Published by University Press Ltd., 14 Motijheel C/A, Dhaka 1991.
- (23) **Name of Assignment or Project:** Wood Energy Study for Community Forestry Project-II
Year: 1985
Location: Bangladesh
Client: United National Food and Agricultural Organization (FAO).
Main project features: Prepare Report on Wood Energy
Position held: Wood Energy Consultant
Activities performed: Submitted Wood Energy Report to FAO
- (24) **Name of Assignment or Project:** ADB/UNDP: Bangladesh Energy Planning Project (BEPP)
Year: 1984-85
Location: Bangladesh
Client: ADB/UNDP.
Main project features: Study Rural Energy and Biomass Situation of Bangladesh.
Position held: Rural and Renewable Energy Advisor
Activities performed: Prepared the Report on Rural Energy and Biomass Supply (Vol.-IV), on behalf of Prokaushali Sangsad Ltd. (PSL). BEPP Study was carried out by Sir William Halcrow & Partners; Motor Columbus Consulting Engineers Inc., Petroconsultants S.A. in Association with Technological Services Ltd. and Prokaushali Sangsad Ltd. (PSL).
- (25) **Name of Assignment or Project:** Panel on Biomass Energy Technologies in Developing Countries
Year: 1980-81
Location: USA
Client: US National Academy of Sciences
Main project features: Study Biomass Energy Resources and Technologies
Position held: Panel Member
Activities performed: A Report on Diffusion of Biomass Energy Technologies in Developing Countries prepared by the Panel Members' and was Published by National Academy Press, Washington, USA, 1982
- (26) **Name of Assignment or Project:** Rural Energy Survey in 23 Villages of Nabagram Union of Jhalakhati District.
Year: 1978-80
Location: Jhalakhati, Bangladesh
Client: International Development Research Centre (IDRC), Canada
Main project features: Conducted Rural Energy Survey and Analyzed Data.
Position held: Project Leader
Activities performed: Study Report (Study of the Problems and Prospects of Biogas Technology as a Mechanism for Rural development Study in a Pilot Area of Bangladesh/Village Resources Survey for the Assessment of Alternative Energy Technology- M. Nurul Islam, Department of Chemical Engineering, BUET, September 1980) was submitted to International Development Research Centre (IDRC), Canada.

List Publications in Books

Islam, M. Nurul (2007): BIMSTEC-Japan Cooperation in Technology: Bangladesh Perspective, in Towards BIMSTEC-Japan Comprehensive Economic Cooperation Bangladesh Perspective, Edited by A. Rob Khan, Centre for Studies in International Relations and Development (CSIRD), Kolkata and Bangladesh Institute of International and Strategic Studies (BISS), Dhaka, 2007.

Islam, M. Nurul (2005): Energy Development Strategies for Bangladesh, in Energy Security in Bangladesh, Edited by O.K. Ahmad, M.A. Azim, A.A. Mintoo, Academic Press and Publishers Ltd., Dhaka, 2005.

Islam, M. Nurul (2005): Renewable Energy in Bangladesh and Government Policy, in Solar Photovoltaic Systems in Bangladesh: Experiences and Opportunities, Edited by M. Eusuf, Bangladesh Center for Advanced Studies (BCAS) and the University Press Ltd., 2005.

Islam, M. Nurul (2003): Energy Security and Sustainable Human Development: A Bangladesh Perspective, in Human Security in South Asia: Energy, Gender, Migration and Globalization, Edited by P.R. Chari, and S. Gupta, Social Science Press, New Delhi, India, 2003.

Islam, M. Nurul (2002): Energy Security in Bangladesh, in Contemporary Issues in Development Edited by Asit K. Biswas, J.S.A.B. Colombi, A.I. Chowdhury and K.B.S. Rasheed, Academic Press and Publishers Ltd., Dhaka, 2002.

Islam, M. Nurul (2001): Energy Problem: Bangladesh Perspective, Gonoprakashani, Dhaka-1344, Bangladesh.

Ramani, K.V., Reddy, A.K.N. and Islam, M. N. (Editors) (1995): Rural Energy Planning: A Government-Enabled Market-Based Approach, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia.

Ramani, K.V.; Hills, P.; Islam, M. Nurul (1995): Rural Development, Energy and the Environment-in Rural Energy Planning: A Government-Enabled Market-Based Approach, Edited by K.V. Ramani, A.K.N. Reddy and M. N. Islam, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1995.

Ramani, K.V.; Islam, M. Nurul (1995): Prevailing Paradigms for Rural Energy Planning-in Rural Energy Planning: A Government-Enabled Market-Based Approach, Edited by K.V. Ramani, A.K.N. Reddy and M. N. Islam, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1995.

Ramani, K.V.; Islam, M. Nurul and Reddy, A.K.N. (1995): GEMBASED Approach to Rural Energy Planning-in Rural Energy Planning: A Government-Enabled Market-Based Approach, Edited by K.V. Ramani, A.K.N. Reddy and M.N. Islam, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1995.

Islam, M. Nurul; Ramani, K.V. (1995): Rural Energy Project formulation-in Rural Energy Planning: A Government-Enabled Market-Based Approach, Edited by K.V. Ramani, A.K.N. Reddy and M.N. Islam, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1995.

Ramani, K.V., Islam, M.N. and Reddy, A.K.N. (Editors) (1993): Rural Energy Systems in the Asia-Pacific: A Survey of Their Status, Planning and Management, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1993.

Islam, M. Nurul (1993): Chapter on Bangladesh-In Rural Energy Systems in the Asia-Pacific: A Survey of Their status, Planning and Management, Edited by K.V. Ramani, M.N. Islam and A.K.N. Reddy, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1993.

Islam, M. Nurul (1993): Energy and Mineral Resources in Environment and Development in Bangladesh, Edited, by Atiq Rahman, S. Huq, R. Haider, E. Jansen, Vol. II, University Press Ltd., Dhaka, Bangladesh.

Islam, M. Nurul (1991): Towards Sustainable Development: Energy and Mineral Resources of Bangladesh, International Union for Conservation of Nature and Natural Resources-The World Conservation Union, National Conservation strategy of Bangladesh, Bangladesh Agricultural Research Council, March 1991.

Energy Task Force Members (1991): Report of the Energy Task Force on Energy Development Planning in Bangladesh, Ministry of Planning, Planning Commission, Sher-e-Bangla Nagar, Dhaka, February, 1991 (Prof. M. Nurul Islam, was a Member of the Energy Task Force and Convener, Drafting Committee of the Energy Task force, Report of the Task Force

was Published in a Book Titled: Report of the Task Force of Bangladesh Development Strategies for the 1990's, Vol. 3, University Press Ltd., 14 Motijheel C/A, Dhaka, 1991)

Islam, M. Nurul (1990): Biomass Resources: Bangladesh, in Energy System and the Environment Approaches to Impact Assessment in Asian Developing Countries, Edited by P. Hills and K.V. Ramani, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, 1990

Haque, M.M.; Islam, M. Nurul and Islam, M. Nazrul (1990): Blacksmith in Bangladesh, in Tinker, Tiller, Technical Change, Edited by M.S. Gamser, H. Appleton and N. Carter, Intermediate Technology Publications, London, UK, 1990.

Islam, M. Nurul and Islam, M. Nazrul (1988): Impact of Technology Transfer Including that of Energy on the Rural Poor: Bangladesh in Impact of Agricultural and Energy Technology on Rural Poor, Edited by S. Ahmed, Centre on Integrated Rural Development for Asia and The Pacific, Chameli House, 17 Topkhana Road, Dhaka, Bangladesh.

Islam, M. Nurul (1988): Assessment of Traditional Resources in Rural Energy Planning: Asian and Pacific Experience, Edited by K.V. Ramani, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, April 1988.

Islam, M. Nurul (1988): Development of Supply Scenarios in Rural Energy Planning: Asian and Pacific Experience, Edited by K.V. Ramani, Asian and Pacific Development Centre, Kuala Lumpur, Malaysia, April 1988.

Islam, M. Nurul, Morse, R. and Soesastro, M.H. (Editors) (1984): Rural Energy to Meet Development Needs: Asian Village Approaches, Westview Press, Colorado, USA, 1984.

Islam, M. Nurul (1984): Energy and Rural Development, Critical Assessment of Bangladesh Situation, in Rural Energy to Meet Development Needs, Asian Village Approaches, Edited by M. Nurul Islam, R. Morse, M.H. Soesastro, Westview Press, Colorado, USA, 1984.

Islam, M. Nurul (1984): Field Based Assessment and Development of Improved Stoves, in Rural Energy to Meet Development Needs: Asian village Approach, Edited by M. Nurul Islam, R. Morse, M.H. Soesastro, Westview Press, Colorado, 1984.