

SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Dean : Professor B.K. Tiwari
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The School has three Departments viz., Anthropology, Geography, and Rural Development and Agricultural Production and one Centre, the Centre for Environmental Studies. Current research programmes of the School are aimed at better understanding of the human and environmental aspects of the biological, cultural and social diversity of hill regions of North East India. During the year under report, the Departments and the Centre received several new research grants from various funding agencies including a grant of more than Rs. 100 lakh from the UGC under its UPE programme which has provided an added fillip to the research activities of the School. This year the Department of Geography signed a MOU with Disaster Prevention Research Institute of Kyoto University, Kyoto, Japan for collaborative research. During current year the faculty and research students of the school published 38 research papers in various journals and edited books which is a commendable achievement and speaks volumes about the research programme of the School. Five M. Phil. and 7 Ph.D. students were awarded degrees during the year under report. More than a dozen students of the School cleared NET examination this year. In order to accommodate more students in the teaching programmes, the Departments and the Centre of the School increased the number of seats in M. A, M. Sc. and Certificate level courses. Another achievement worth mentioning here is the increasing popularity of our post graduate courses abroad which is reflected in admission of foreign students in the School.

DEPARTMENT OF ANTHROPOLOGY

Head : Professor R. Khongsdier
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Thrust Area of Research : The thrust of the Department is to build expertise in and train the students to appreciate and understand the socio-cultural and biological variation of India in general and Northeast India in particular.

Brief Statement of Academic Activities : The department increased the number of seats from 25 to 28 for M. A./M. Sc. programmes. In addition to regular teaching and research activities, the department organised a national seminar on "Cultural Change among the Tribes of Northeast India" in collaboration with the Don Bosco Centre for Indigenous Cultures and Sacred Heart Theological College, Mawlai, Shillong from 26 to 28 October, 2006.

Faculty :
Professors : T. B. Subba, M.A/Ph.D. (N. Bengal)
H. Lamin, M.A/Ph.D. (NEHU)
R. Khongsdier, M.Sc./Ph.D. (NEHU)

Readers : L. Zehol. M.A./Ph.D. (NEHU)
 D.K. Limbu. M.Sc./Ph.D. (NEHU)
 Lecturers : V. Pakyntein, M.A./M.Phil. (Delhi)
 J.W. Dkhar, M. Sc./Ph.D. (NEHU)
 Q. Marak, M.A., (GAU)
 B. T. Langstieh, M.Sc./Ph.D. (Cal.)

Student Intake :

Enrolment capacity: M. A./M. Sc.:- 25; Ph. D. - Variable

| Actual Admission: | SC/ST | Gen | Male | Female | Meghalaya/Non-Meghalaya |
|-------------------|-------|-----|------|--------|-------------------------|
| M. A./M. Sc. | 26 | 3 | 9 | 20 | 15 14 |
| Ph. D. | 16 | 3 | 10 | 9 | 7 12 |

Degree Awarded :

| | SC/ST | Gen | Male | Female | Total |
|--------------|-------|-----|------|--------|-------|
| M. A./M. Sc. | 22 | 2 | 12 | 12 | 24 |
| Ph. D. | 1 | - | 1 | - | 1 |

Ph. D.

Mr. Robert Varte, "Health and Nutritional Status of the Hmars of Aizawl District, Mizoram". Supervisor: Prof. R. Khongsdier.

Courses Conducted: Following courses were conducted for M. A./M. Sc. students:

- Semester I : Palaeo-anthropology; Archaeological Anthropology; Physical Anthropology; Social and Cultural Anthropology.
- Semester II : Human Origin and Evolution; Asian Prehistoric Archeology; Human Ecology and Adaptation; Language, Culture and Society; Theories and Methods.
- Semester III : Anthropology of India; Economy and Culture; Culture, Health and Medicine; Demography and Biostatistics; Fieldwork Methods and Techniques; Human Genetics; Human Growth and Body Composition; Practical in Physical Anthropology-I.
- Semester IV : Anthropology of Northeast India; Dissertation; Development Anthropology; Practical in Physical Anthropology – II; Anthropology of Communication; Biosocial Anthropology.

Study Tour/Field Trips of Students: Dr. B. T. Langstieh took the 3rd Semester students to Mawlynrei village, East Khasi Hills District, Meghalaya, from 20 January to 10 February, 2007 for their fieldwork training.

Seminars/Conferences/Symposia/Extension Programmes etc.:

Organized

The Department organised a national seminar on "Cultural Change among the Tribes of Northeast India" in collaboration with the Don Bosco Centre for Indigenous Cultures and Sacred Heart Theological College, Mawlai, Shillong from 26 to 28 October 2006. The aim of this seminar was to bring together social scientists and missionaries working among the tribes of North East India to debate the issues of conversion to Christianity and other religions, forces responsible for conversion and consequences of the same on them. The occasion was also to create an opportunity to learn from each other's

experiences. Certain differences were noticed during the seminar in the ways social scientists and missionaries approached the phenomenon of the spread of Christianity among the tribes and it was felt that more or such opportunities should be created to understand each other better with the ultimate goal to understand the phenomenon at hand better.

Attended

Prof. T. B. Subba attended: (i) "19th European Conference on Modern South Asian Studies" organized by the European Association for Modern South Asian Studies at the University of Leiden, the Netherlands, 27-30 June 2006, and presented a paper entitled "From Caste to Tribe: An Autobiographical Essay" (Panel 13) and "Legal People, Illegal Goods: The Indo-Nepal Border" (Roundtable on Border Studies); and (ii) a seminar on "Man in Biosphere" organised and sponsored by the Anthropological Survey of India, 26-28 February 2007, Nagpur, and delivered a special lecture on "Problems of Conceptualising Cultural Diversity among the Tribes of Northeast India."

Dr. L. Zehol attended: (i) a seminar on "Cultural Change among the Tribes of Northeast India", organized by the Department of Anthropology, NEHU, Shillong in collaboration with the Don Bosco Centre for Indigenous Cultures and Sacred Heart Theological College, Shillong, 26-28 October, 2006, and presented a paper entitled "Changing Khezha Culture: Christianity and Women", (ii) a conference on "Youth in the 21st Century", organized by the Khezhakeno Students Union, Nagaland, Khezhakeno, 10 January 2007 and presented a paper entitled "Naga Myth of Origin of Khezhakeno: Some Observations", and (iii) a colloquium on "Environment and Human History: Focussing Society and Culture in North-East India" organized by the Department of History, NEHU, Shillong, 31 March, 2007, and presented a paper entitled "Sacred Forest of the Khezhas of Nagaland."

Ms. V. Pakyntein attended a colloquium on "Environment and Human History: Focussing Society and Culture in North-East India" organized by the Department of History, NEHU, Shillong, 31 March 2007, and presented a paper entitled "Khasi Indigenous Practices for Management of Agricultural and Household Waste."

Publications :

Published in India

Khongsdier, R. 2007. Bio-cultural Approach: The Essence of Anthropological Study in the 21st Century. *The Anthropologist* (Special Issue), 3: 1-12.

Subba, T. B. 2007. Understanding Ethnic Conflict in North East India. *Assam University Journal*, 2(1): 1-17.

Zehol, L. 2006. Gender Issues in the Tribal Society of North-East India: Some Observations. *Bulletin of the Department of Anthropology, Dibrugarh University*, 34: 99-106.

Published Abroad

Kumar, V., Langstieh, B. T., Biswas, S., Babu, J. P., Rao, N. T., Thangaraj, K., Reddy, A. G., Singh, L. and Reddy, B. M. 2006. Asian and Non-Asian Origins of Mon-Khmer and Mundari Speaking Austro-Asiatic Populations of India. *American Journal of Human Biology*, 18(4): 461-469.

Kumar, V., Langstieh, B. T., Madhavi, K. V., Naidu, V. M., Singh, H. P., Biswas, S., Thangaraj, K., Singh, L. and Reddy, B. M. 2006. Global Patterns in Human Mitochondrial DNA and Y Chromosome Variation Caused by Spatial Instability of the Local Cultural Processes. *Public Library of Sciences Genetics*, Vol 2 No.4 e53 DOI: 10.1371/journals.pgen.0020053.

Book/Book Chapter/Proceedings Publications

Marak, Q. 2006. Discipline in Child Rearing Process: A Case Study among the Garos of Assam. A. K. Haldar and Pradip K. Bhowmick (eds.), *Societies and Culture in India, Tribal Issues*, Vol. I, R. N. Bhattacharya, Kolkata., pp. 295-304.

Subba, T. B. 2007. J. B. Bhattacharjee (ed.), *Is Social Science a Science?*, Akansha Publishing House, New Delhi. pp. 23-31.

Subba, T. B. 2007. "Culture and Personality" for Anthropology Students published by the UGC-hosted National Science Digital Library and networked by the Council for Scientific and Industrial Research, Government of India.

Research Projects :

New : "Culture, Genetics and Status of Health in Northeast India" under University Potential for Excellence (UPE) programmes. Principal Investigators: Prof. T. B. Subba and Prof. R. Khongsdier, Rs. 30.0 Lakhs.

Honours/Awards/Recognition :

Prof. T. B. Subba was appointed (i) Member, Editorial Advisory Board, Contributions to Indian Sociology, Delhi, (ii) Member, Editorial Advisory Board, Purbottar Samanway, Central Institute of Hindi, Agra, (iii) Honorary Life Fellow, Indian Social Science Association, (iv) Member of the National Working Group on "Language Development and Book Promotion" for the formulation of the Eleventh Five Year Plan 2007-12 constituted by the Planning Commission, Government of India, 2006, (v) Member, National Advisory Committee, Anthropological Survey of India, Ministry of Culture, Government of India, and (vi) Member of the Empowered Committee on Linguistic Survey of India Project constituted by the Chairman, University Grants Commission, New Delhi.

Professor R. Khongsdier was appointed a Member, Editorial Advisory Board of the journal *The Anthropologist*, Delhi.

Dr. L. Zehol was nominated for the Shiksha Rattan Puraskar by the India International Friendship Society, New Delhi.

Other Activities :

Prof. T. B. Subba delivered (i) the Third Late Sher Bahadur Chhetri Memorial Lecture on "Settlement of Nepalis in Northeast India" organised by the Assam Nepali Sahitya Parishad at Sankardev Kala Kshetra, Guwahati, 11 June 2006, (ii) Inaugural lecture on "Understanding Cultural Change in Tribal Societies of Northeast India" at Oriens Theological College, Mawlai, Shillong, 31 July 2006, (iii) Inaugural lecture on "Myth, Folklore and Philosophy" organized by the Sahitya Akademi at NEHU Guesthouse-cum-Seminar Complex, Shillong, 26-27 August 2006, and (iv) chaired the lecture delivered by Prof. T. C. A. Anant, Member-Secretary, Indian Council of Social Science Research, New Delhi at Women's College, Shillong, 8 December 2006.

Professor R. Khongsdier delivered a lecture on "Statistical Analysis of Growth Data", organized by the Anthropological Survey of India, Shillong, 31 October 2006.

Ms. V. Pakyntein attended: (i) Workshop on "Revision of School Syllabi and Textbooks, in the light of National Curriculum Framework (NCF) 2005", organized by the Directorate of Educational Research and Training, Shillong, 19-30 June 2006, and along with two other lecturers prepared a draft of the "Revised Anthropology Syllabus for Class XI & XII", (ii) UGC Residential Workshop on "Capacity Building for Women Managers in Higher Education", organized by Dibrugarh University, Dibrugarh, 13-14 July 2006, participated as a resource person (Facilitator) for the session on "Women and Research", (iii) Dissemination Workshop on "Women and the Media in the Context of Globalization: Research and Advocacy Project" organized by WSRC, Gauhati University, Guwahati, 18 July 2006, and participated as a member of Feedback Team, (iv) Workshop on "Finalization of the Revised School Syllabi" organized by the Directorate of Educational Research and Training, Shillong, 4-5 August 2006, and presented the "Final Revised Anthropology Syllabus for Class XI & XII", and (v) Workshop on "Integrated Management of Neonatal and Childhood Illnesses: Baseline Assessment of Childhood Morbidity and Mortality in Selected Districts in India" organized by the All India Institute of Medical Sciences, New Delhi and North-Eastern Indira Gandhi Regional Institute of Medical Sciences (NEIGRIMS), Shillong, 24-28 February 2007, participated in the project as a Senior Investigator (Anthropologist), and conducted a baseline study in Jaintia Hills District, Meghalaya, 1-12 March 2007.

Ms. V. Pakyntein and Dr. J. W. Dkhar attended the "UGC Sponsored Orientation Course", organized by the Department of Education, North-Eastern Hill University, Shillong, 20 March- 18 April 2007.

DEPARTMENT OF GEOGRAPHY

Head : Professor D. K. Nayak

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Thrust Area of Research : (a) Geomorphology with Focus on Regional and Applied Geomorphology, (b) Environmental Studies with Focus on Climatology & Climate Change, Water Resources and Hydrology, Biogeography and Bio-diversity and Watershed Management studies. (c) Regional Development and Regional planning, (d) Researches on Social and Cultural Diversity of the North-Eastern Region with a special focus on Tribal Development, (e) GIS and Remote Sensing applications in Environment and Land Use Planning.

Brief Statement of Academic Activities : Ms. Nabanita Kanungo of the Department bagged the prestigious President of India, Dr. Shankar Dayal Sharma Gold medal award for General Proficiency including character and conduct and excellence in academic performance, extra curricular activities and social service. The Department, apart from its usual teaching programme, organized a series of lectures delivered by very eminent geographers from various universities in the country. The collaborative research programme with the Polish Academy of Sciences on 'Run off, Rainfall and Soil Loss in Cherrapunji Area, Meghalaya Plateau' continued this year with the exchange of scientists from this Department who visited Polish Academy of Sciences and the scientists from the Polish Academy of Science visited this Department. The Department organized a seminar and a workshop during the year. The faculty remained active in publication of research papers in a number of national and international journals as well as book chapters. Many of the senior faculty members attended and presented research papers in international conferences. As many as 13 students of the Department qualified UGC-NET under lectureship category. At least one student qualified for UGC JRF too. As many as 5 research scholars were awarded Ph. D. degree, while another 5 of them were awarded M. Phil. degree. The Department signed a letter of intent with the Disaster Prevention Research Institute (DPRI) of Kyoto University, Kyoto, Japan for collaborative research on climate change and other issues of disaster management. A draft MoU was prepared for possible collaboration between the Department and ICIMOD, Kathmandu, Nepal in matters of research and geo-spatial data sharing.

Faculty :

Professors : A. C. Mohapatra, M. A./M. Phil. (JNU), Ph. D. (NEHU)
Surendra Singh, M. A./Ph. D. (Meerut)

B. S. Mipun, M. A. (JNU), Ph. D. (NEHU)

D. K. Nayak, M. A./M. Phil./Ph. D. (JNU)

Readers : Z. H. Qureshi, M. A./Ph. D. (Suh.)

H. J. Syiemlieh, M. A./M. Phil./Ph. D. (NEHU)

L. Cajee, M. Sc./Ph. D. (NEHU)

Lecturers : N. K. Sinha, M. A.(Gau.), Ph. D. (NEHU)

P. G. Momin, M. A.(JNU), M. Phil. (NEHU)

P. K. Ryngnga, M. A.(NEHU), M. Phil. (JNU)

S. Purkayastha, M. A./M. Phil. (NEHU)

Visiting Professors/Fellows/Scholars : The following Professors visited the Department and delivered a series of lectures:-

Prof. B. Mishra (Rtd.), School of Planning and Architecture, New Delhi (13-27 May 2006); Prof. S. R. Jog (Rtd.), Department of Geography, University of Poona, Poona (15-25 March 2007); Prof. S. Padmaja, Department of Geography, Osmania University, Hyderabad (23 March 2007).

Dr. R. Soja, Polish Academy of Sciences, Poland, visited the Department from 12-30 September 2006 under the Indo-Polish Research Programme. A team of three scientists, Prof. T. Hayashi, Dr. T. Terao and Dr. Funai Murata, DPRI, Kyoto, Japan visited the Department during 28 February to 5 March 2007 in order to finalize a collaborative research with the Department of Geography, NEHU, Shillong.

Student Intake :

Enrolment capacity: M. A./M. Sc.: - 36; Ph. D. - Variable

Actual Admission: SC/ST/Gen Male/Female Meghalaya/Non-Meghalaya

| | | | | | | |
|--------------|----|---|----|----|----|----|
| M. A./M. Sc. | 28 | 7 | 23 | 12 | 21 | 14 |
| Ph. D. | 14 | 9 | 15 | 8 | 7 | 16 |

Degrees Awarded : SC/ST Gen Male Female Total

M. A./M. Sc. 28 3 21 10 31

M. Phil. 3 2 3 2 5

Ph. D. 2 3 2 3 5

M. Phil.

Lopamudra Bhattacharjee, "Ethnic Composition and Electoral Responses: A Study of Shillong Urban agglomeration". Supervisor: Prof. D. K. Nayak.

C. Ramhnehzuava, "Degradation of Forest in Lunglei District, Mizoram". Supervisor: Dr. Z. H. Qureshi.

H. Laldinmawia, "Voting Behaviour in Mizoram: 1972-1987". Supervisor: (L) Prof. R. Gopalakrishnan.

Roshan Singh, "Border Trade in Moreh Town". Supervisor: Prof. B. S. Mipun.

Periya Raikham, "Life and Livelihood of Displaced Nagas in Ukhrul District of Manipur". Supervisor: Prof. B. S. Mipun.

Ph. D.

Zarzoliana, "Availability and Utilization of Health Care Facility in Mizoram: A Geographical Analysis." Supervisor: Prof. D. K. Nayak.

Tsukjemchila Imchen, "Geographical Appraisal and Impact Assessment of Indo-Myanmar Boundary". Supervisor. (L) Prof. R. Gopalakrishnan.

Mainu Goswami, "Participation of Tribal Women in Agriculture in Dhemaji District of Assam." Supervisor: Prof. B. S. Mipun.

Kamaleswar Kalita, "Geo-environment of Gangtok with Special Reference to Geo-hazards." Supervisor: Dr. Z. H. Qureshi.

Polly Vauquiline, "Gender Related Crimes in Greater Guwahati Urban Area". Supervisor. Prof. A. C. Mohapatra.

Placement of Students : Five students got teaching jobs in different colleges in Shillong. One student got a job in Rolta India Pvt. Limited. Another student was appointed as a Senior Technical Assistant in the Department of Geography, NEHU, Shillong.

Courses Conducted : The following courses were conducted for M. A./M. Sc. students:

Semester I : Geomorphology, Regional Geography of India, Climatology and Hydrology, and Advanced Cartography.

Semester II : Economic Geography, Quantitative Techniques in Geography, Ecology and Biogeography, History of Geographical Thought, and Fieldwork.

Semester III : Regional Planning and Development, Population and Settlement Geography, Regional Geography of a Meso Region of the World/India, Social and Cultural Geography, and Remote Sensing and GIS.

Semester IV : Environmental Geography, Advanced Geomorphology, Biogeography, Applied Climatology, Hydrology, Integrated Area Planning, Agricultural Geography, Social Geography, Cultural Geography and Project.

The following courses were conducted by the Department for Ph .D. students:

Methodology and Research Methods in Geography, Evolution of Landforms, Drainage Basin and Water Resources, Geography of Settlements and its Application in Integrated Area Development, Population and Development, and Advanced Agricultural Geography

Study Tours/Field Trips of Students:

Prof. Surendra Singh and Dr. H. J. Syiemleih took the first semester students to on an all India study tour to various places in Rajasthan in order to study the cultural landscape under the influence of arid and semi arid conditions during 1-18 February, 2007.

Dr. L. Cajee and Dr. N. K. Sinha supervised Field work of the 2nd semester students concerning a socio-economic survey of the village Nongtalang in Jaintia Hills for a period of 12 days ,17-28 January 2007.

Mr. P. G. Momin organized a field visit of the M. A./M. Sc. students to Kaziranga National Park in order to study ecological and biodiversity degradation of the Park, 20-22 October 2006.

Seminars/Conferences/Symposia/Extension programme etc. :

Organized

Indo-Polish Joint Seminar on "Environmental Changes and Geomorphic Hazards", 20-22 November 2006, North Eastern Hill University, Shillong. The Seminar was jointly organized by the Association of Polish Geomorphologists and Polish Academy of Sciences, Warsawa (Poland) and North Eastern Hill University, Shillong.

Workshop on "GIS and Remote Sensing Application in Environmental Studies" 22-23 March, 2007, NEHU, Shillong.

Attended

Prof. A. C. Mohapatra attended "38th Regional Science Conference", 19-21 January 2007, National Institute of Oceanography and Govt. of Goa, Dona Paula, Goa, presented a paper entitled "Urbanization, the Informal Sector and Non-farm Employment in India" and chaired a session.

Prof. Surendra Singh attended "XXV National Conference on Hydrology", 24-25 August, 2006, Department of Applied Geology, University of Madras Chennai, and presented a paper entitled "Rainfall-Runoff Conditions in the Meghalaya Plateau".

Prof. B. S. Mipun attended (i) "Map Asia 5th International Conference and Exhibition on Geographical Information Technology and Application", 29 August – 1 September, 2006, Bangkok, Thailand, and presented a paper entitled "Landuse/ Landcover Change Mapping of Mawkyntew CR and D Block, East Khasi Hills, Meghalaya", (ii) "NE-Geo 2006 Conference and Exhibition on Geo-Information Technologies", 21-22 September 2006, Guwahati, Assam, presented a paper entitled: "Geo-information Technology in North-East India: Problems and Prospects" and chaired a session, (iii) North Eastern Regional Workshop on "Severe Thunderstorms- Observation and Regional Modelling", 17 November, 2006, jointly organized by Earth System Science Division, DST & Assam Science Technology and Environmental Council, Guwahati, and chaired a session, and (iv) International Conference on "Emerging Population Issues in the Asia-Pacific Region: Challenges for the 21st Century", 10-13 December, 2006, International Institute of Population Sciences, Mumbai, and presented a poster (jointly with S. Purakayastha) entitled "Population Growth and Waste Management in Shillong Urban Agglomeration".

Prof. D. K. Nayak attended (i) DST workshop on "Identification of Problems in Different Development Sectors of the State Which Need S&T Solutions", 29-30 November, 2006, Science Centre, NEHU, Shillong and chaired a technical session, (ii) International Conference on "Emerging Population Issues in the Asia-Pacific Region: Challenges for the 21st Century", 10-13 December 2006, International Institute of Population Sciences, Mumbai, and presented a paper entitled "A Geographical Perspective on the Trends and Patterns in Ageing in the North-Eastern Region of India", (iii) National Symposium on "Natural Hazards and Disaster Management with Special

Reference to Orissa”, 18-19 March 2007, Ravenshaw University, Cuttack, Orissa, and presented a paper entitled “How Natural are Natural Disasters?: A Social Perspective on Natural Disaster Management”, and chaired a technical session.

Dr. Z. H. Qureshi attended “XXXIV RGA National Conference on “Environmental Conservation and Resource Management”, 31 October - 2 November 2006, Dungar College, Bikaner (Rajasthan), and presented a paper entitled “Land Degradation in the Hills: A Case Study of the Upper Mynrut Watershed of Meghalaya” and chaired a session.

Publications :

Published in India

Nayak, D. K. 2005. A Social Perspective on Natural Disasters: Management and Planning. *Maharashtra Bhugolshastra Sansodhan Patrika*, XXI (2): 3-7.

Nayak, D. K. 2005. Review of “*Tribes: Education and Gender Questions*” (Ed. S. K. Rai), Northern Book Centre, New Delhi. *NEHU Journal*, 4(1&2): 85-88.

Published Abroad

Singh, S., Sharma, B. and Dey. P. P. 2006. Predicting Summer Rice Yield Based on Biophysical and Technological Parameters on Monsoon Lands of Brahmaputra Valley, India. *International Agricultural Engineering Journal*, 15 (2-3): 91-107.

Book/Book Chapter/Proceedings Publication

Cajee, L. 2006. Physiography and Socio-economic Characteristics of Southern Slopes of Meghalaya Plateau: A Case Study of Ranikor Area. Monograph No. GE/UGC/4 Department of Geography, NEHU, Shillong.

Mohapatra, A. C. 2006. Agrarian Developments and Food Security in North East India. In: “*Agriculture, Food Security Nutrition and Health in North East India*” (Eds. Debashis Basu, B. F. Kulirani and B. Datta Ray), Mittal, New Delhi, pp.13-20.

Mohapatra, A. C. 2006. Has Agriculture Changed in the Land of Seven Sisters? In: “*Changing Agricultural Scenario in North-East India*” (Eds. B. J. Deb and B. Datta Ray, Concept, New Delhi, pp. 43-56 .

Mohapatra, A. C. 2006. Linking the System of National accounts (SNA) with Natural Resource Accounting. In: “*Environment and Natural Resources*” (Ed. O. P. Singh) Regency, New Delhi, pp. 55-68.

Mohapatra, A. C. 2006. Location, Economic Growth and Trade: Revisiting Economic Geography of South Asia. In: “*Population Resources and Development: A Geographical Perspective*,” M. M. Das (ed.), Eastern Book House, Guwahati, pp. 37-50.

Mohapatra, A. C. 2006. Scientificity of Social Science Research: The Empirical World. In: "Is Social Science a Science?," J. B. Bhattacharjee (ed.), Akansha, New Delhi, pp. 32-43.

Mohapatra, A. C. 2006. The Fourth Revolution: Industrial Location and Regional Development in India—Implications for the Eastern India In: "In Defence of Regional Economic Development in India: A case for the North East", P. M. Passah (ed.), Akansha, New Delhi, pp.137-148

Mohapatra, A. C. 2006. Valuing the River. In: "Rivers and Riverine Landscape in North East India", S. Sengupta, K. R. Sinha, S. Das, W. B. Rani & S. Purakayastha (eds.), Concept, New Delhi, pp. 27-34.

Nayak, D. K. 2007. *A Geographical Perspective on the Trends and Patterns in Ageing in India with a Special Reference to the North-Eastern Region*. Research Monograph No. GE/UGC/DKN/7. Department of Geography, North Eastern Hill University, Shillong.

Ryngnga, P.K. 2007. *Dynamics of Morphology of Shillong Urban Agglomeration*. Research Monograph No. GE/UGC/PKR/6, Department of Geography, North Eastern Hill University, Shillong.

Singh, S. 2006. Agricultural Development in North East India. In: "Population, Resources and Development—A Geographical Perspective," M. M. Das (e.), Eastern Book House, Guwahati, pp.152-161.

Singh, S. 2007. *Rainfall- Runoff Conditions in Meghalaya Plateau*. Research Monograph No. GE/2007/UGC/SS/5, Department of Geography, North Eastern Hill University, Shillong.

Singh, S. 2007. Regional Dimensions of Agricultural Growth Potentials. In: "Fifty Years of Indian Agriculture," Ali Mohammad, A. Munir and H. Rehman (eds.), Vol. I., Concept, New Delhi, pp. 139-153.

Fund Received from Agencies Other than NEHU :

DST, New Delhi. (Under FIST)

Rs. 1.0 Lakh

UGC (SAP) DRS Programme:

Rs. 3.0 Lakhs

Total Rs. 4.0 Lakhs

Infrastructure Facilities : The Department procured Arc GIS Master Lab Kit 8.4 Software, ERDAS Imagine 8.1 DIP Software, A0 Colour plotter, Leica GPS56+, Megallan HH GPS, 5 Mega pixel Digital Camera, A0 scanner, and GARMIN 12 XL GPS.

Research Projects :

Ongoing

"Rainfall, Run off and Soil Loss in Cherrapunji Area, Meghalaya Plateau (III Phase)". PI: Prof. Surendra Singh and Dr. H. J. Syiemlieh, DST (New Delhi) and KBN (Warsawa, Poland).

New

“Valuation of Community Natural Resources and Livelihood Systems”. PI: Prof. A. C. Mohapatra; Co-PI: Prof. B. S. Mipun, Prof. D. K. Nayak, Dr. L. Cajee and Ms. P. K. Ryngnga, Rs. 39.20 Lakhs, UGC (under UPE).

“Landslide Mapping/Erosional Aspects, Vulnerability and Risk Assessment of Shillong Urban Area with Special Reference to Umshing Micro Watershed”. Prof. B. S. Mipun, Rs. 7.31 Lakhs, DST, New Delhi.

Completed

“Rainfall-Runoff Conditions in Meghalaya Plateau”. Prof. S. Singh, Rs. 4.70 lakhs, UGC, New Delhi.

Academic/Professional Collaboration :

Indo-Polish Collaborative Research Program under DST (New Delhi)-and KBN (Warsawa, Poland) to investigate Run off, Rainfall and Soil Loss in Cherrapunji Area, Meghalaya Plateau (III Phase).

Honours/Awards/Recognition : Prof. D. K. Nayak was nominated as a member of the Indian National Science Academy (INSA) Committee of the International Year of Planet Earth, International Polar Year, International Geophysical Year and International Heliophysical Year.

Other Activities :

Prof. Surendra Singh (i) delivered an invited lecture on ‘Rainstorm Patterns in Cherrapunjee Area, at DPRI, Kyoto University, Kyoto, Japan on 25 July 2006 and ‘CSSM as Tool for Prediction of Summer Rice Yield in Monsoon Lands, University of Tokyo, 27 July 2006, (ii) was invited as Chief Speaker in UGC National Seminar on Perspectives of Regional Development, University BT and Evening College, Cooch Behar, 24-25 November 2006, (iii) delivered a series of lectures on ‘Quantitative Tools in Geography, Department of Geography, Punjab University, Chandigarh during 16-25 January 2007, (iv) acted as the Convener, Indo-Polish Joint Seminar on Environmental Changes and Geomorphic Hazards, 20-22 November 2006, North-Eastern Hill University, Shillong, and (v) visited Disaster Prevention Research Institute, Kyoto University, Kyoto, and University of Tokyo, Japan, 22-30 July, 2006, and Polish Academy of Sciences, Warsawa, Poland under Indo-Polish Research Collaborative Program (DST-KBN), 24 June –12 July 2006.

Prof. B. S. Mipun (i) was a member, organizing committee, International Seminar on “Bangladesh: National, Regional and Global Contexts” jointly organised by Society for Peace, Security and Development Studies, Allahabad, NEHU and Konrad Adenauer Foundation, New Delhi, 21-23 April, 2006 NEHU, Shillong, (ii) attended a Regional Workshop/Training on “Sharing Geographic Information” organized by MENRIS, ICIMOD, 11-15 December 2006, Kathmandu, Nepal, and (iii) was the convener UGC- SAP Workshop on “GIS and Remote Sensing Application in Environmental Studies” 22-23 March 2007, NEHU, Shillong.

Prof. D. K. Nayak (i) delivered lectures on "Disaster management" at Meghalaya Administrative Training Institute, and (ii) attended the INSA Committee meeting on 25 October, 2006 on four International Years, and presented a report on inputs from Geography to the International Year of Planet Earth.

Dr. Z. H. Qureshi (i) delivered special lectures on 'Geomorphic Analysis using RS and GIS' in a training programme on "Application of Remote Sensing, GIS and GPS for Water and Land Management", 12 May 2006, NERIWALAM, Tezpur (Assam), and (ii) attended Interaction Meet on Crop and Crop Planning for Flooded and Flood Prone Areas, 8th December, 2006 and 7th R&D Session of the INCID, 26- 27 February 2007, NERIWALAM, Tezpur (Assam).

Dr. L. Cajee (i) visited Tokyo University, Tokyo, Japan, and delivered a special lecture on "Community Forest Management in the Khasi Hills", 25 July, 2006, and (ii) was a member of the research team with Disaster Prevention Research Institute, Kyoto University working on Climate Change in South Asia.

Ms. P. K. Ryngha (i) delivered a lecture on "Traditional Urban management in Shillong: A Conflict or Synchronization " for the Officers of Shillong Municipal Board, State Government of Meghalaya, 22 June 2006, and (ii) was invited as resource person to the Seven Set School for an interactive programme on Indian Space programme, 10 August 2006.

Dr. H. J. Syiemlieh was (i) the organising Secretary, Indo-Polish Joint Seminar on "Environmental Change & Geomorphic Hazards", 20-22 November 2006, North-Eastern Hill University, Shillong, (ii) Co-investigator in Bilateral Indo-Polish Project of DST (New Delhi) and KBN (Warsawa) in the Project 'Rainfall and Soil Loss in Cherrapunji Area (Phase III)", (iii) the Co-investigator, DST sponsored project on 'Science & Technology needs of Meghalaya", (iv) member of the research team with Disaster Prevention Research Institute, Kyoto University working on "Climate Change in South Asia", and (v) visited Polish Academy of Sciences, Warsawa under Indo-Polish Collaborative Programme (DST-KBN), 24 June-12 July, 2006.

Mr. P. G. Momin (i) was elected President of the Society for Environment Protection and Rural Development. (SEPARD) Pedaldoba, West Garo Hills, Meghalaya, and (ii) organized a three days' Tree Plantation Campaign, 4th-6th October, 2006 at Pedaldoba and Upper Kongrapara L. P. School & Church compounds.

DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION

Head : Dr. L.R. Saha (Till September 2006)
Professor S.C. Srivastava (w.e.f. September 2006)

Telephone : 03651-221407 (O), 09436313379 (R)

E-mail : subhash58nehu@yahoo.co.in

Thrust Area of Research : The Department mainly concentrates on multidisciplinary research in the areas of rural development, agronomy, horticulture and animal science.

Brief Statement of Academic Activities : Being multidisciplinary in nature, the Department undertakes both teaching and research in the areas concerning rural development, agronomy, horticulture and animal science. The Department provides both theoretical and practical exposure to M. Sc. (RDAP) students in various areas relating to the multidisciplinary P. G. programme within the stipulated time. In addition to this, the Department organized various seminars, workshops, talks, demonstrations, consultancy and evaluation services for promoting entrepreneurship in the fields of dairy, poultry, piggery, fishery, vermicompost, floriculture, mushroom cultivation, etc.

Faculty :

Professors : Rakesh Mohan, Ph.D. (BCKU)

S.C. Srivastava, Ph.D. (Alld.)

Reader : L.R. Saha, Ph.D. (RAU)

Lecturers : S.K. Nanda, Ph.D. (JNU)

J.P. Jaiswal, M.Sc. (Alld.)

B. Mathew, Ph.D. (BCKU)

L.M. Lyndem, Ph.D. (NEHU)

Visiting Professors/Fellows/Scholars :

Visiting Professor : Om Prakash, Ph.D. (BHU), Rural Development
(upto September 2006).

Student Intake :

Enrolment capacity : M.Sc. (RDAP) = 14 Seats.

Actual admission : SC/ST/Genl. Male/Female Meghalaya/Non-Meghalaya

| | | | | | | |
|---|----|---|---|---|----|---|
| - | 12 | 1 | 4 | 9 | 13 | - |
|---|----|---|---|---|----|---|

Degrees awarded : SC/ST/Genl. Male/Female Total

| | | | | | | |
|-------|---|----|---|---|---|----|
| M.Sc. | - | 10 | 0 | 5 | 5 | 10 |
|-------|---|----|---|---|---|----|

Placement of Students : Seven students out of 10 were selected by Council for Advancement of People's Action and Rural Technology (CAPART) in collaboration with the Institute of Applied Manpower Research (IAMR), New Delhi in May 2006. At present they are working with different NGOs and with CAPART.

Courses Conducted : General Aspects of Rural Development, Principles of Agriculture, Production Technology of Fruits and Plantation Crops, Introduction of Livestock and Poultry Production, Computer Application, Commercial Floriculture-I, Dynamics of Rural Development, Field Crops and Commercial Crops Production Technology-I, Swine Production, Diseases of

Horticultural Crops and their Control, Production Technology of Vegetables and Spices, Statistical Methods, Insect Pests of Field and Horticultural Crops and their control, Diseases of Field crops and their control, Soil Conservation and Watershed Management, Field Crops and Commercial Crops Production Technology-II, Poultry Production, Commercial Floriculture-II, Rural Development Programmes, Goat and Sheep Production, Rural Marketing and Entrepreneurship Development, Livestock Development and Dairying, Agricultural Surveying and Leveling, Post Harvest Management of Fruits and Vegetables and Rural Economy and Rural Empowerment.

Study Tour/Field visits : As part of course curriculum students visited one village every fortnight for learning, PRA and research.

Seminars/Conferences/Symposia/Extension Programmes etc. :

Attended

Dr. S.C. Srivastava attended (i) "Symbiosis Workshop (international) on Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods in the Marginal Mountain Environment", 22-23 September 2006, organized jointly by United Nations University and National Institute of Rural Development, Guwahati and (ii) Seminar on Social Amenities, 4 November 2006, AIFO, New Delhi.

Dr. Rakesh Mohan attended workshop on Medicinal Plants in Garo Hills, sponsored by Meghalaya Medicinal Plant Board and organized by Department of Forest & Environment, Government of Meghalaya, Tura, Meghalaya on 12 February 2007 and presented a paper entitled "Agronomical practices of medicinal plants".

Dr. S.K. Nanda attended (i) The National Seminar on "Globalisation and Northeast India : Problems and Possibilities", Silchar, Department of Sociology, Assam University 26-28 April 2006 and presented a paper on "Globalisation, Cultural Pluralism and Nationalism in Northeast India", and (ii) The National workshop on 'Mapping Practices of Sociology and Thinking the Role of social science in India', 24-25 January 2007, the Centre for the Study of Social Systems, School of Social Sciences, JNU, New Delhi and presented a paper on "Practice of Sociology in Northeast India".

Publications :

Published in India

Malik, V., Kumar, M. and Mohan, R. 2006. Growth performance of three Sorghum (*Sorghum bicolor* Linn) varieties under newly established Neem (*Melia azadirachta* Linn) Plantation in Mizoram. Range Management and Agroforestry. 27 (1) :pp. 58-60.

Mohan, R. 2007. Environmental Conservation through agro-forestry, *Science Vision*, (1) : pp.19-22.

Nanda, S.K. 2006. "Democracy, Cultural Identity and Nationalism in Multinational Context, In M.N. Karna (ed) *Democracy, Pluralism and Conflict*, Rawat Publication, Jaipur, pp. 57-85.

Book/Book Chapter/Proceeding Publications :

Nanda, S.K. 2007. *Nationalism and Regionalism in India : The Case of Orissa*. Kalpaz Publications, Delhi.

Academic/Professional Collaboration : The Department has undertaken professional collaboration with NIRD, Regional centre, Guwahati and NIRD, Headquarters, Hyderabad, CAPART & IAMR, New Delhi, SIRD, Guwahati, ICAR Research Complex for NEH Region, Barapani for practical exposure and improvement of rural development programmes for improvement of techniques relating to Rural Development and Agricultural Production.

Honours/Awards/Recognition : Dr. Binu Mathew received Baba Saheb Dr. Ambedkar Fellowship Award 2006 conferred by the Bharatiya Dalit Sahitya Academy, New Delhi on 1 December 2006.

Other Activities : The dairy unit produced nearly 30,000 litres of milk which provided total revenue of nearly Rs. Four lakhs to the University.

CENTRE FOR ENVIRONMENTAL STUDIES

Head : Dr. O. P. Singh
Telephone : 0364-2721159 (O), 2550009 (R)
Email : opsinghnehu@rediffmail.com

Thrust Area of Research: Biodiversity Conservation, Environmental Monitoring, Forest Management, Environmental Impact Assessment, Environmental Biology, Integrated Pest Management (insect/pest), Geophysical Study of NE Region, Policy Oriented Research on Forest and Environment and Watershed Management.

Brief Statement of Academic Activities: During the year under report, the Centre undertook several research projects aimed at creating much-needed database for promoting ecologically sound development of the hill regions of northeast India. A number of national and international agencies like Department of Science and Technology (DST), New Delhi; Ministry of Statistics and Programme Implementation, New Delhi, Cement Manufacturing Co. Ltd., New Delhi; Center for International Forest Research, Bogor, Indonesia; Mawmluh Cherra Cement Ltd, Cherrapunjee, Meghalaya; Meghalaya Cement Ltd., Thangskai, Meghalaya and Meghalaya Urban Development Authority sponsored and collaborated with the Center in its research programmes. This year the Centre received more than Rs. 25 Lakhs grants from various external funding agencies that were used to strengthen the ongoing research and extension activities and development of laboratory and other infrastructure.

Faculty :

Professors : B. K. Tiwari, M. Sc. (DDU, Gorakh.), Ph. D. (NEHU)
 L. K. Jha, M. Sc. (Bhagalpur), Ph. D. (LNMU),
 Reader : O. P. Singh, M. Sc./Ph. D. (BHU)
 Lecturers : D. Walia, M. Tech. (Dr. HSGVV, Sagar), Ph. D. (Gau.)
 D. Paul, M. Sc./Ph. D. (NEHU)
 S. S. Chaturvedi, M. Sc. (Gorakh.), Ph. D. (BHU)

Student Intake :

Enrolment capacity: Certificate Course - 15; Ph. D. - Variable

Actual admission: SC/ST/Gen Male/Female Meghalaya/Non-Meghalaya

| | SC | ST | Gen | Male | Female | Meghalaya | Non-Meghalaya |
|--------------------|----|----|-----|------|--------|-----------|---------------|
| Certificate Course | 15 | - | 7 | 8 | 15 | - | - |
| Ph. D. | 3 | 4 | 4 | 3 | 7 | - | - |

Degrees Awarded : SC/ST Gen Male Female Total

| | | | | | |
|--------------------|----|---|---|---|----|
| Certificate Course | 13 | - | 5 | 8 | 13 |
|--------------------|----|---|---|---|----|

Ph. D.

Mr. Pavitra Chutia, "Ethnozoological study of Nyishi, Monpa and Apatani tribes of Arunachal Pradesh". Supervisor: Dr. O. P. Singh.

Placement of Students : Data not available.

Courses Conducted :

Certificate Course: Fundamentals of Environmental Science and Ecological Principles, Environmental Pollution and Environmental Impact Assessment, Environmental Conservation and Environmental Problems of North-East India.

Study Tours/Field trips of Students: Prof. B. K. Tiwari, Dr. D. Walia and Dr. S. S. Chaturvedi conducted study/field trips for the students of Certificate Course and Ph. D. to Waste Disposal Site, Shillong and Mawlynong, Pynursla on November 22 and December 13, 2006, respectively.

Seminars/Conferences/Symposia/Extension Programmes etc :**Organized**

"Farmer's Right: Benefits sharing and Prior Informed consent Advocacy Workshop" organized in collaboration with Consumer Unity and Trust Society, Kolkata, 14 December 2006, Shillong. Prof. B. K. Tiwari directed the workshop.

Attended

Prof. B. K. Tiwari attended (i) the "Farmers' right: Benefit sharing and Prior Informed Consent workshop" 14 December 2006, Shillong, and presented a research paper entitled: (i) "National and International Legislations on Access and Benefit Sharing and Prior Informed Consent 2006", (ii) the "Policy Workshop Initiatives in Management of Shifting Cultivation: Appraisal and Experience Sharing to Identify Appropriate Policy Approaches" organized by ICIMOD, Kathmandu,, 2-3 March 2007, Guwahati and presented a paper

entitled "Rehabilitation of Shifting Cultivation Areas through National Afforestation Programme", (iii) "Workshop cum Sseminar for Promotion of Medicinal Plant Sector in Meghalaya" organized by Meghalaya State Medicinal Plant Board, Shillong, 10 March 2007, Jowai, and presented a paper entitled "Medicinal plant management practices of War Khasi people of Meghalaya", and (iv) the "International Workshop on Forests that Benefit the Poor: Linking Income Generation to Influence among Forest Communities in Asia", 8-12 May 2006, Centre for International Forestry Research (CIFOR), Bogor Indonesia, and presented a paper entitled "Forest Product markets in Meghalaya: opportunities and constraints in livelihoods improvement of the poor".

Dr. D. Walia attended (i) "International Brain Storming Session on Earthquake Prediction", 11-13 September 2006, Saha Institute for Nuclear Physics, Kolkata, and presented a paper entitled "Neotectonic Studies and Seismic event prediction in the North-eastern India by Radon monitoring", (ii) National Seminar on "Modern Developments in Physics", 17 November 2006, NEHU, Shillong, and presented papers entitled "Radon concentration in lithological and structural units of Shillong", "Electromagnetic Induction of the Earth and its Utilities" and "Earthquake Precursor Using the Vertical Field of the Earth's Magnetic Field: A Case Study", (iii) First India Disaster Management Congress, 29-30 November 2006, New Delhi, and presented a paper entitled "Seismotectonics and Seismic Event Prediction in the North-Eastern India by Radon Monitoring near the Hot Spring", and (iv) the Indo-Polish Joint Seminar on "Environmental changes and Geomorphic Hazards" 20-22 November 2006, NEHU, Shillong, and presented a paper entitled "Delineation of Active Fault Zones using Geophysical Data in Parts of Shillong Plateau".

Publications :

Published Abroad

Singh, O. P., Neus Visa, Wieslander, L. and Danoholt, B. 2006 A specific S R protein binds preferentially to the secretory protein gene transcripts in salivary glands of *Chironomus tentens*. *Chromosoma*, 115: 449-458.

Published in India

Goswami, B., Satpathy, K.K., Singh, O. P. and Saikia, U.S. 2006. Productivity zoning for rice in Meghalaya for efficient management planning. *Journal of Assam Science Society*, 47: 20-25.

Lalramnghinglora, H., Lalnuntluanga and Jha, L. K. 2006. Notes on Ngenpui and Palak wildlife sanctuaries in South Mozoram, *Indian Forester*, 132 (10): 1282-1291.

Solanki, G. S, Chutia, P. and Singh, O. P. 2006. Ethnozoology of the Nyishi tribe and its impact on biodiversity in Arunachal Pradesh. *R. G. University Research Journal*, 8(i): 89-100.

Tynsong, H., Tiwari, B. K. and Lynser, M. B. 2006. Medicinal Plants of Meghalaya, India. *Medplant Network News*, 6(2): 7-10.

Book/ Book Chapters/Proceedings Publication:

Singh, O. P. 2006. *Environment and Natural Resources: Ecological and Economic Perspectives*. Regency Publication, New Delhi.

Singh, O. P. 2006. System of Environmental and Economic Accounts (SEEA), O. P. Singh ,(ed.). *Environmental and Natural Resources: Ecological and Economic Perspectives*, Regency Publication, New Delhi, pp. 69-80.

Singh, O. P. 2006. Air Pollution - Types, Sources and Abatement, O. P. Singh (ed.), *Environmental and Natural Resources: Ecological and Economic Perspectives*, Regency Publication, New Delhi. pp. 101-124.

Tiwari, B. K. 2006. Conservation of Natural Resources and Sustainable Development, O.P.Singh (ed.), *Environment and Natural resources: Ecological and Economic Perspectives*, Regency Publication, New Delhi. pp. 81-100.

Tiwari, B. K. 2006. Environmental Goods and Services, O. P. Singh (ed.), *Environment and Natural Resources Ecological and Economic Perspectives*, Regency Publications, New Delhi, pp. 14-33.

Chaturvedi, S. S. 2006. Conservation of Surface Water Resources in Meghalaya, P. M. Passah et. al.(eds.), *Surface Water Management in Meghalaya*) Meghalaya Economic Association, Shillong, pp. 57-64.

Chaturvedi, S. S. 2006. Water Resources Management in Meghalaya, P. M. Passah et. al. (eds.), *Surface Water Management in Meghalaya*, Meghalaya Economic Association, Shillong, pp. 79-92.

Chaturvedi, S. S. 2006. Water Pollution-Types, Sources and Abatement, O. P. Singh (ed.), *Environment and Natural Resources: Ecological and Economic Perspective* Regency Publications, New Delhi, pp. 125-139.

Walia, D. and Saxena, A. 2006. Neotectonic Studies and Seismic event prediction in the North-eastern India by Radon monitoring, P. Sen and N. K. Das (eds.), *Geochemical precursors for Earthquakes* , McMillan Advanced Research Series, New Delhi, pp. 157-162.

Funds Received from Agencies other than NEHU (Source and amount) :

| Source | Amount |
|--|------------------------|
| Centre for International Forestry Research (CIFOR), Indonesia. | Rs. 2.52 Lakhs |
| Meghalaya Cement Ltd, Thangskai, Meghalaya | Rs. 4.00 Lakhs |
| Cement Manufacturing Company Ltd., Lumshnong | Rs. 2.00 Lakhs |
| Central Statistical Institute, MoSPI, New Delhi | Rs. 5.20 Lakhs |
| Department of Science and Technology, GOI, New Delhi | Rs. 11.40 Lakhs |
| Total | Rs. 25.12 Lakhs |

Infrastructure Facilities: LCD projector and some more Computers, Printers and peripherals were added to the existing facilities of the Centre.

Research Projects :

Ongoing

Environmental Accounting of Natural Resources of Meghalaya : Phase I- Land and Forest Resources. Dr. O. P. Singh, Rs.13.0 Lakhs, Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi.

Environmental Impact Assessment and Environmental Management Plan for New Shillong Township. Prof. B. K. Tiwari, Rs. 5.00 Lakhs, Meghalaya Urban Development Agency, Shillong, Meghalaya.

Geophysical Studies in the NER Region using the Magnetotelluric techniques. Dr. D. Walia, Rs. 18.0 Lakhs, Department of Science & Technology, New Delhi.

Forest Product Marketing, Livelihood links and Potential for Growth in Meghalaya. Prof. B. K. Tiwari, US\$ 20,000.00, Centre for International Forestry Research (CIFOR), Bogor, Indonesia.

Environmental Study at Cherrapunjee, Meghalaya. Prof. B. K. Tiwari, Rs. 3.5 Lakhs, Mawmluh Cherra Cement Ltd., Cherrapunjee, Meghalaya.

Environmental Study at Thangkai, Meghalaya. Prof. B. K. Tiwari, Rs. 8.0 Lakhs, Meghalaya Cement Ltd., Thanskai, Meghalaya.

New

Age, Sr-Nd and Paleomagnetic Studies on Alkaline Complexes from Assam and Meghalaya, North Eastern India. Dr. D. Walia, Rs. 7.0 Lakhs, Department of Science & Technology, New Delhi.

Landslide Mapping/Erosional Aspects, Vulnerability and Risk Assessment of Shillong Urban Area with Special Reference to Umshing Micro Watershed. Dr. D. Walia (Co-PI), Rs. 4.0 Lakhs, Department of Science & Technology, N. Delhi.

Forest Poverty Interactions in Rural Meghalaya. Prof. B. K. Tiwari, US\$ 10,000, Centre for International Forestry Research (CIFOR), Bogor, Indonesia.

Completed

Environmental Study at West Khasi Hills, Meghalaya. Prof. B. K. Tiwari, Rs. 10.0 Lakhs, Uranium Corporation of India Ltd., Jaduguda.

Water Quality Survey of Umshyrpi River. Prof. B. K. Tiwari, Rs. 2.8 Lakhs, Shillong Urban Water Supply and Environmental Sanitation Project (AUS-AID), Shillong.

Academic/Professional Collaborations :

Dr. O. P. Singh collaborated with the Department of Molecular Biology and Functional Genomics, Stockholm University, Stockholm. Sweden.

Dr. D. Walia collaborated with Indian Institute of Geomagnetism, Navi Mumbai; National Geophysical Research Institute, Hyderabad; and Department of Physics and Department of Geography, NEHU, Shillong.

Prof. B. K. Tiwari collaborated with Centre for International Forestry Research, Bogor, Indonesia.

Prof. L. K. Jha was associated with Mizoram University as Ph. D. Supervisor and under his supervision Mr. Bharat Rai, Department of Forestry, Mizoram University was awarded Ph. D. degree on his thesis entitled "Geophysical, biophysical and socio-economic studies of Tuichhuapsen river, Mizoram".

Dr. D. Paul was associated with Mizoram University as Ph. D. Supervisor.

Other Activities :

Prof. B. K. Tiwari delivered a lecture entitled "Access and Benefit Sharing from Community Based Conservation" in Training of Trainers on Access and Benefit Sharing from Genetic Resources and Associated Traditional Knowledge in Biological Diversity held on 11-13 December 2006 at Shillong. He also delivered a lecture entitled "Environment and Sustainable Development in the UGC-ASC Orientation course in the department of Education on 24 March, 2007. He was appointed as honorary member of the Meghalaya Catchments Areas Advisory Board by the Government of Meghalaya and the Botanical Survey of India, Shillong of joint implementation and monitoring committee for the project entitled "Survey of Biodiversity in Kopili Catchments in connection with Environmental Safeguards of Kopili Hydroelectric Project.

Dr. O. P. Singh resumed duty in the Centre after spending about a year of his sabbatical leave at Stockholm University, Stockholm, Sweden. Dr. O. P. Singh attended (i) "Technical Monitoring Committee Meeting", 13 June 2006, New Delhi of the Central Statistical Organization, Ministry of Statistics and Programme Implementation, Govt. of India, New Delhi, and presented the progress Report of the on going research project on Natural Resource Accounting of Meghalaya, (ii) Consultation Workshop on "Environment, Forest and Water-Nexus for the Development and Growth in Northeast India organized by World Bank and Ministry of Development of North Eastern Region (DONER), Government of India, 26-27 June 2006, New Delhi. Further, Dr. Singh also delivered (i) lectures entitled "Environmental Impact Assessment of Watershed Management Activities" and "Strategies for Conservation of biodiversity" in Summer school on "Sustainable management of Watershed - Recent Concepts and Practices" sponsored by ICAR, New Delhi, 5-25 September 2006, ICAR Research Complex for NEH Region, Umiam, (ii) a lecture entitled "Mountain Ecosystem of North-Eastern Region: Technology Interventions for Sustainable Environmental and Social Development" at the DST-sponsored "Group Monitoring cum Sensitization

Workshop” organized by Bethany Society, Shillong and HESCO, Dehradun, 25-27 September 2006, and (iii) a lecture on “Biodiversity Conservation with special reference to North Eastern Region of India” in a refresher course for PG Teacher of NER organized by NCERT, New Delhi, 26 February-2 March 2007, Shillong.

Dr. D. Walia participated in (i) Workshop on revision of School curriculum and evaluation of textbooks, from 19 - 30 June 2006, MBOSE, Shillong, and (ii) Workshop cum training program on radiation safety for the radiation workers of the North East on 23 September 2006, organized by AERB, GOI and Dr. B. Borooah Cancer Institute, Guwahati.

Dr. D. Paul delivered lectures as resource person on (i) Contemporary Issues of the Environment at a workshop on Teaching Environmental Education at Secondary and Higher Secondary levels at Gorkha Pathsala Higher Secondary School, Shillong on 22 July 2006, and (ii) Faunal Biodiversity in soil and litter at a workshop on Training of trainers on access and benefit sharing from Genetic resources and Associated traditional Knowledge in Biological Diversity (for the professionals of NERCORMP), organized by IFAD, 12 December 2006, Shillong.