

SCHOOL OF HUMAN AND ENVIRONMENTAL SCIENCES

Dean: Professor S. Singh (till 3/1/2006)
Professor B. K. Tiwari (w.e.f. 4/1/2006)

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The School of Human and Environmental Sciences comprises three Departments namely, Anthropology, Geography and Rural Development and Agricultural Production, and one Centre – the Centre for Environmental Studies. There are 31 faculty members in the school. The Departments admit students to both Masters and Doctoral programmes, while the Centre admits students to Doctoral programme and a one semester Certificate Course. All the Departments and the Centre have identified their thrust areas which include socio-cultural and biological variations of peoples of North-East India – geomorphology, watershed management, regional development, land use planning, GIS and remote sensing, rural development, horticulture, agronomy, forest management, integrated pest management, environmental monitoring, environmental impact assessment and geophysics. The faculty members of the School are actively engaged in research and teaching programmes. During the year under report, eighty-one students were awarded Certificate-M.A./M.Sc./M.Phil/Ph.D. degree and eight students qualified NET examination. Several faculty members have collaborative research programmes with prestigious national and international research Centres. Faculty members are also implementing a good number of externally funded research projects. This year, the faculty strength of the School increased by joining of four teachers repatriated from erstwhile Mizoram Campus of NEHU.

DEPARTMENT OF ANTHROPOLOGY

Head : Professor H. Lamin

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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 variations of India in general and Northeast India in particular.

Brief Statement of Academic Activities: The Department organized a Refresher Course on “Socio-Cultural and Biological Variations in Northeast India” from 3rd to 25th October 2005.

Faculty:

Professors	:	T. B. Subba, M. A./Ph. D. (N. Bengal)
		H. Lamin, M. A./Ph. D. (NEHU)
Readers	:	L. Zehol, M. A./Ph. D. (NEHU)
		R. Khongsdier, M.Sc. /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. Langstieh, M. Sc./Ph. D. (Cal.)

Student Intake:

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

					From	Outside
B. Actual Admission :	SC/ST/Gen	Male/Female	Meghalaya/	Meghalaya		
M. A./M. Sc.	22 3	13 12	17	8		
Ph. D.	9 1	4 6	3	7		

Degree Awarded:

	SC/ST	Genl	Male	Female	Total
MA/MSc	24	1	13	12	25
Ph. D.	2	-	2	-	2

Ph. D.

Imlirena Walling, "Occupational Mobility among the Aos in Mokokchung Town of Nagaland". Supervisor: Prof. H. Lamin.

Kezhaleno Khatso, "Khasi Women and Electoral Politics - A Case Study of Greater Shillong". Supervisor: Dr. L. Zehol.

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 Gender; Dental anthropology; Population Biology; Medical Anthropology; Ethnicity and Anthropology.

Study Tour/Field Trips of Students:

Ms. Q. Marak took the M. A. / M. Sc. IV Semester students to Rangsakona, Dehalbagan and Ambher villages, Ri-Bhoi District, Meghalaya from January 14 to February 3, 2006 for their fieldwork training. Dr. J. W. Dkhar and Ms.

Q. Marak took the M.A./M.Sc. students of I and III Semesters to Kanyakumari via Chennai and Trivandrum from 10th to 22nd February, 2005, for their study tour.

Seminars/Conferences/Symposia/Extension Programmes, etc.:

Organised

The Department organized the Silver Jubilee Celebration-cum-Seminar on "Anthropology as a Career" from 25th to 27th August, 2005.

Attended

Prof. T. B. Subba attended (i) International Seminar on Negotiating Ethnicity in Nepal's Past and Present, organised by Social Science Baha, Centre for Nepal and Asian Studies and the University of Beilefeld in Kathmandu (September 12-14, 2005), and delivered a lecture entitled "Understanding Ethnic Violence against the Indian Nepalis in Northeast India", (ii) National Seminar on Language, Meaning and the Problem of Socio-Cultural Understanding, organised by the Department of *Philosophy, Assam University, Silchar (February 1-3, 2006), presented a paper entitled "Understanding Ethnic Conflict in Northeast India", and chaired the sessions on "Concept of Dialogue" and the "Valedictory Session", (iii) delivered Plenary Lecture entitled "From Caste to Tribe: An Autobiographical Essay" at the 2nd Inter-Congress of the Indian National Confederacy and Academy of Anthropologists, organised by the Anthropological Association, Mysore on February 21-23, 2006, and (iv) International Seminar on Identity, Cultural Pluralism and State, organised by the Anthropological Survey of India at the India International Centre, New Delhi (February 27-29, 2006) and presented a paper entitled "Are you from Nepal? Interrogating the Monolithic Identity of the Nepalis in India".

Ms. V. Pakyntein attended the UGC National Consultation on "Women Studies, North Eastern Regional Workshop", organized by Women's Studies Research Centre (WSRC), Gauhati University, Guwahati (January 9-10, 2006) and presented a paper entitled "Research Priorities for Women of Meghalaya".

Publications:

Journal Publications

Published in India

Dkhar, J. W. 2005. Somatotypes among the Pnar Boys of Meghalaya. *Bulletin of the Department of Anthropology, Dibrugarh University*, 33: 85-92.

Khongsdier, R. 2005. Malnutrition, Social Inequality and Natural Selection in Human Populations. *Journal of Human Ecology* (Special Issue), 14: 53-67.

Marak, Q. 2005. The Use of Analogy in the Interpretation of Pre-Historic Culture: A Case Study among the Garos of Garo Hills, Meghalaya. *South Asian Anthropologist*, 5: 167-172.

Subba, T. B. 2005. Review of Uwe Skoda, *The Aghria: A Peasant Caste on a Tribal Frontier*, Manohar Books, New Delhi: 2005, pp.607, *The Book Review*, Vol. 30 (1), p. 52.

Published abroad

Khongsdier, R., Varte, R. and Mukherjee, N. 2005. Excess Male Chronic Energy Deficiency among Adolescents: A Cross-Sectional Study in the Context of Patrilineal and Matrilineal Societies in Northeast India. *European Journal of Clinical Nutrition*, 59: 1007-1014.

Reddy, B. M., Naidu, V. M., Naidu, K. M., Thangaraj, K., Kumar, V., Langstieh, B. T., Venkatramana, P., Reddy, A. G. and Singh, L. 2005. Microsatellite Diversity in Andhra Pradesh, India: Genetic Stratification versus Social Stratification. *Human Biology*, 77: 803-823.

Book/Book Chapter Publications:

Karlsson, B. G. and Subba, T. B. 2006. *Indigeneity in India*. Kegan Paul, London.

Subba, T. B. 2006. Indigenising the Limbus: Trajectory of a Nation Divided into Two Nation-States. In : *Indigeneity in India* (Eds. B. G. Karlsson and T. B. Subba), pp. 143-159. Kegan Paul, London.

Honours/Awards/Recognition: Dr. R. Khongsdier was nominated for the "Asian Family Health Research Award, 2005" by the Iran University of Medical Science, Teheran, for his contribution to the study of human body composition relating to the nutritional status and morbidity (*British Journal of Nutrition*, 2005; 93: 101-107).

Other Activities:

Professor T. B. Subba delivered (i) an invited lecture at Samman Bhawan in Gangtok, Sikkim on "Identity and Nationality of the Indian Nepalais" on April 13, 2005, and (ii) a lecture at the office of the Anthropological Survey of India, North-Eastern Regional Office, Shillong on "Growth and Development as a cultural anthropologist would see them" on July 6, 2005. He was (a) the Nodal Person for organising the UGC National Conference on "Gandhi and Contemporary Society: Challenges and Responses" held at NEHU on April 28-30, 2005, and (b) Director of the Silver Jubilee Celebration cum Seminar on "Anthropology as a Career" held at the Department of Anthropology, NEHU, on August 25-27, 2005. He delivered a lecture on "Oral Narratives" at the Department of English-organised Refresher Course on March 25, 2006 and chaired the session on "Trade and Tourism in Northeast India" at the workshop on Vision North East Region 2020 organised by the Department of Economics, NEHU, Shillong, on March 28, 2006.

Dr. R. Khongsdier delivered a lecture at the office of the Anthropological Survey of India, North-Eastern Regional Office, Shillong on "Reliability of Anthropometric Measurement" on 6th July, 2005.

Dr. D. K. Limbu coordinated the UGC Sponsored Refresher Course in Anthropology on the theme "Socio-Cultural and Biological Variations in Northeast India" at the Department of Anthropology, NEHU, Shillong, October 3-25, 2005.

Ms. V. Pakyntein delivered lectures at the "Training Course for Angawadi Workers, ICDS Projects", organized by Department of Social Welfare,

Government of Meghalaya, Shillong on April 2005. She also delivered lectures on (i) Constitutional Provisions and Supporting Policies for Women and Children, (ii) Rights and Legal Safeguards for Women and Children, (iii) Women's Empowerment, and (iv) "Changing Status of Khasi Women" for Boston University's International Honors Program, USA, organized by Boston University and Inter-Cultural Resources, New Delhi at Mawpun Village, Ri-Bhoi District, Meghalaya (September 15, 2005); and attended UGC sponsored North-Eastern Workshop on "Training of Trainers for Capacity Building of Women's Managers in Higher Education", organized by Women's Studies Research Centre (WSRC), Gauhati University, Guwahati (27th September to 1st October, 2005).

V. Pakyntein, Dr. J. W. Dkhar, and Q. Marak attended the UGC-sponsored 'Refresher Course in Anthropology' organized by Department of Anthropology, NEHU, from 3rd to 25th October, 2005.

DEPARTMENT OF GEOGRAPHY

Head: Professor B. S. Mipun (till 09.02.2006)
Professor D.K. Nayak (w.e.f. 10.02.2006)

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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, Bio-geography and Biodiversity and Watershed Management Studies, (c) Regional Development and Regional planning, (d) Research 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, and Certificate Courses not research.

Brief Statement of Academic Activities: The Department organised a series of lectures delivered by very eminent geographers from within India and abroad. The ongoing collaborative research programme with the Polish Academy of Sciences on 'Run off, Rainfall and Soil Loss in Cherrapunji Area, Meghalaya Plateau' witnessed exchange of scientists working on the project. The Department collaborated with American Centre and ICSSR in organizing a seminar on Economic Cost of Terrorism and insurgency in South Asia. The Department also took initiative under its SAP programme to write a comprehensive book on Geography of North-east India by organizing a seminar on assigned topics to be covered in the book. Five students of the Department qualified UGC-NET under lectureship category during the year under report.

Faculty:

- Professors :** R. Gopalakrishnan, M.A (Mad.), Ph.D.(JNU)(till 19.11.2005)
 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/Fellow/Scholars:

The following Professors visited the Department and delivered a series of lectures:

Prof. B. Mishra (Rtd), School of Planning and Architect Use, New Delhi (May, 2005); Prof. D. K. Singh (Rtd.), Utkal University, Bhubaneswar (September, 2005); Prof. S. R. Jog (Rtd.), Pune University, Pune (March, 2006); Prof. K. R. Dikshit (Rtd.), Pune University, Pune (March, 2006); Prof. R. K. Rai (Rtd), Sagar University, Sagar (March, 2006); Dr. Zofia Raczowska, Department of Geomorphology & Hydrology of Uplands, Polish Academy of Sciences, Krakow (16th March, 2006); Prof. L. Starkel and Prof. M. Degorski, Polish Academy of Sciences (November, 2005) under Indo-Polish Collaborative Programme.

A Japanese team comprising Prof. T. Hayashi, Dr. T. Terao and Dr. F. Murata from Disaster Prevention Research Institute, visited the Department during March, 2006 for exploring areas of mutual interest and collaboration.

Student Intake:

A. Enrolment capacity: M. A./M. Sc. - 34; Ph.D. - Variable

					From	Outside
B. Actual Admission : SC/ST/Gen					Meghalaya	Meghalaya
M. A./M. Sc.					31	5
Ph. D.					8	5

Degree Awarded :		SC/ST	Gen	Male	Female	Total
M. A./M. Sc.		26	4	19	11	30
M. Phil.		1	-	1	-	1
Ph. D.		1	2	2	1	3

M. Phil.

R. Vanlalvena, "The Pattern and Problems of Agricultural Development in Lunglei District, Mizoram". Supervisor: Professor B. S. Mipun.

Ph. D.

K. W. G. Rekha Nianthi, "Climate Change and its Potential Influence on Agricultural Economy of Sri Lanka". Supervisor: Prof. A.C. Mohapatra, Joint Supervisor: Prof. B. K. Tiwari.

Sunil Pio, "Quality of Life of the Tea Garden Labourers in Assam, Supervisor: Prof. R. Gopalakrishnan, Joint Supervisor: Dr. Ali Ahmed.

Sumit Mukherjee, Major Diseases in Meghalaya: A Spatial Analysis". Supervisor: Prof. D. K. Nayak.

Placement of Students: Six students got teaching jobs in different colleges in Shillong.

Courses Conducted: The Department conducted the following courses for M.A./M. Sc. students:-

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

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

Semester IV: Biogeography, Political Geography, Applied Climatology, Hydrology, Integrated Area Planning, Agricultural Geography, Regional Planning-I, Advanced Geomorphology, Project.

Study Tours/Field Trips of Students:

Prof. A. C. Mohapatra and Dr. N. K. Sinha took the 1st Semester students on a study tour (January 2-20, 2006) to Bangalore, Chennai, Pondicherry, Nagapattinam and Kanyakumari with the main objective of observing the devastations caused by the Tsunami (December 26, 2004) in the coastal Tamil Nadu, the nature of the rehabilitation work going on, and community participation in various rehabilitation projects.

Mrs. P. K. Rynnga and Mrs. S. Purkayastha supervised Field Work of the 2nd Semester students in different localities of Shillong Urban Agglomeration for a period of 15 days (December 20 - January 4, 2006) on problems of sewerage and urban renewal.

Mr. P. G. Momin organized a field visit of the M. A./M. Sc. students to Meteorological Centre, Borjhar, Guwahati in May, 2005 for a first hand experience of meteorological data collection methods.

Seminars/Conferences:

Organised

Seminar on the Economic Cost of Terrorism & Insurgency in South Asia with Special Reference to North East India, 17th August, 2005 at NEHU in collaboration with ICSSR-NERC, Shillong, and American Centre, Kolkata.

Users Workshop on "Generation of Spatial Data of Natural Resources of the Central Part of Meghalaya Plateau" on 17th October, 2005 under Indo-Polish Collaborative Research Programme at North-Eastern Hill University, Shillong.

Writers' Workshop cum Seminar under UGC Special Assistance Programme, 28th - 29th March, 2006 at the Department of Geography, NEHU, Shillong.

Attended

Prof. A. C. Mohapatra (i) attended International Regional Science Conference, Indian Institute of Management, Bangalore, January 6-7, 2006 and presented a paper entitled 'Globalization, Business Outsourcing and Regional Development in India', and (ii) delivered a Key Note paper in Workshop on 'IPR, WTO and Agriculture in North East' at Centre for Environmental Studies, NEHU, February, 8, 2006.

Prof. Surendra Singh attended (i) 4th International Convention of Asia Scholars, Shanghai Academy of Social Sciences, Shanghai (China), 20-24 August, 2005 and presented a paper entitled 'Regional Disparities in Agricultural Labor Productivity in the Brahmaputra Valley', (ii) National Conference on 'Space, Science and Technology for Geographical Research and Application (SSTGRA)', Centre for Land Use Management, Hyderabad. 16-18 September, 2005, co-chaired one session on 'Soil and Land Use Interpretation', and presented a paper on 'Crop Yield Analysis Tool', (iii) International Workshop on 'Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods of Marginal Mountain Societies' National Institute of Rural Development, North Eastern Regional Center, Guwahati, 6-10 October, 2005, acted as the Chief Guest in the Valedictory Session and delivered an invited lecture on 'CSSM, Crop-ecological Sustainability Simulation Model for Fertilizer Use Efficiency and Summer Paddy Yield Management on the Marginal Lands of the North East India', (iv) International Symposium and 37th Annual Conference of Indian Regional Science Association, Indian institute of Management, Bangalore, 6-8 January, 2006 and presented a paper entitled 'Measurement of Regional Disparities in Agricultural Productivity in Assam', (v) National Conference on 'Low Land-Highland Interaction' and I.I.G. Meet, Department of Geography, Jammu University, Jammu. 22-25 February, 2006 and chaired a session on 'Geographic Specificities and Highland - Lowland Interaction in the N.E. India', and (vi) National Seminar on 'Mega Cities: Governance and Infrastructure' Department of Geography, University of Delhi, Delhi. 24-25 March, 2006 and presented a paper entitled 'Town Systems in the North East India'.

Prof. B. S. Mipun attended (i) Colloquium on "Philosophy of Language and Space", 4-6 May, 2005, organized by Central Institute of Indian Languages, Mysore and Department of Linguistics, NEHU, Shillong, and chaired a session, (ii) Zonal Workshop on 'Disaster Management' for NSS Functionaries of NE States on 7th-8th March, 2006, GOI, MYAS, New Delhi at NEHU, Shillong and Chaired a session, (iii) IUSSP XXV International Population Conference, Tours, France 18-23 July 2005 and presented a poster paper entitled "How Safe is Medical Waste Management in the Urban Agglomeration of Shillong?", (iv) 4th International Convention of Asia Scholars, Shanghai, China, August 20-24, 2005, Shanghai Academy of Social Science, Shanghai, China and presented papers entitled 'Medical Waste and Health Hazards in Shillong Urban Agglomeration' and 'Channel Migration and Mass Migration in Morigaon District, Assam', and (v) delivered a Key

Note Address in North-East Regional Workshop on Remote Sensing & GIS Application in Resource Management, 30th March-4th April, 2006, Indian Science Congress Association - Guwahati Chapter, Gauhati University, Guwahati.

Prof. D. K. Nayak attended (i) XXV IUSSP General Population Conference, Tours, France, 18-23 July, 2005 and presented a paper entitled 'Language Retention and Shift Among the Immigrant Tea Garden Labourers of Assam, India', (ii) Central Institute of Indian Languages (CIIL) Sponsored Colloquium on 'Philosophy, Language and Space' North-Eastern Hill University, Shillong, 4-6, May 2005, presented a paper entitled 'Significance of Language in Understanding Space and Milieu' and chaired a session on 'Philosophy of Space', (iii) UGC National Seminar on 'Natural Disasters: Management and Planning', 22nd Annual National Geography Conference, Maharashtra Bhugol Shastra Parishad, Pune, Bharatiya Mahavidyalaya, Morshi, Amravati, Maharashtra, 1-3 December, 2005 and presented a Key Note Paper entitled 'A Social Perspective on Natural Disasters: Management and Planning' (iv) BARC sponsored Seminar on "Oorza Swabalamban Niti, Paryavaran Sanrakshan ebam Poorvotar Anchal ki Chunoutiyan", 23rd-24th February, 2005, North-Eastern Hill University, Shillong and presented a paper entitled "Oorza ki Khapat, Utpadan Ebam Bhabhi Apekshyayen", and (v) CIIL sponsored Workshop on Khasi Dialect Survey, Department of Linguistics, North-Eastern Hill University, Shillong, 7-13 May, 2005 and presented a paper on 'Mapping Languages'.

Dr. H. J. Syiemlieh attended (i) Seminar on 'Traditional Knowledge Based Biodiversity Conservation Practices in N.E. India', March 23-24, 2006, NEHU, Shillong and presented a paper entitled 'Traditional Ecological Conservation Practices of the Khasi Community', and (ii) Workshop on Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods of Marginal Mountain Societies Guwahati, Assam, India, 6th-10th October, 2005 and presented a paper entitled "Shifting Cultivation: Some Observations".

Ms. P. K. Rynnga attended National Seminar on 'Contemporary Regional Issues' 30th-31st March, 2006, Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi, and presented a paper entitled "Monitoring Urban Development in Hill Region: A Case Study of Shillong".

Publications:

Journal Publications:

Published in India

Cajee, L. 2005. Community Participation in Forest Management in Meghalaya. *The NEHU Journal*, 3(1): 89-97.

Das, P. and Syiemlieh, H. J. 2005. Rainfall Trend over North-East India. *Hill Geographer*, XXI (1 & 2): 39-46.

Khaing, T. and Singh, S. 2005. Chili Sauce Processing in the South-West Thailand: Some Observations. *Hill Geographer*, Vol. XXI (1 & 2): 86-92.

Mipun, B. S. and Purkayastha, S. 2005. Management of Hospital Waste in Shillong. *The NEHU Journal*, 3(3): 69-79.

Mohapatra, A. C. 2004. A Post-modernist Perspective on Patrick Geddes's Valley Section. *The Indian Geographical Journal*, Chennai, 78 (1): 1-4.

Published Abroad

Singh, S. and Daimari, T. C. 2005. Tea Production and Garden Size in the Upper Brahmaputra Valley. India. *Asian Profile, Canada*, 33(3): 268-279.

Book/Book Chapter Publications:

Cajee, L. 2005. Natural Resources. Assam Science Society, Guwahati (with A.K. Bhagabari).

Mipun, B. S. 2006. Women in Agriculture: A Case Study of the Mishing Tribe in Dhemaji District of Assam, Changing. In: *Changing Agricultural Scenario in North-East India* (eds. B. J. Deb and B. Datta Ray), pp. 301-312. Concept, New Delhi.

Mohapatra, A. C. 2006. Post-modernist Perspective on Patrick Geddes's Valey Section. *The Indian Geographical Journal*, Chennai, 78(1): 1.4.

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), pp. 43-56., Concept, New Delhi.

Purkayastha, S. 2006. *Rivers and Riverine Lanscape in North-East India*. Concept, New Delhi, India (Co-editor).

Ryngnga, P. K. 2006. Urban Poverty: An Appraisal Study of Slums in Shillong. In: *Informality and Poverty: Urban Landscape of India's North East* (Eds. B. Datta Ray and Gurudas Das), pp. 241-253. Akansha Publishing House, New Delhi.

Ryngnga, P. K. and Badwar, A. 2005. Women Participation in the Society: An Analytical Study of Core-Periphery of Shillong. In: *Women and Changing Power Structure in North-East India* (Eds. A. K. Ray and R. P. Athparia), pp.103-108.

Fund Received from Agencies other than NEHU: Rs.3,14,050/- from UGC, Special Assistance Programme

Infrastructure Facilities: ArcGIS Master Lab Kit 8.4 Software - 3 licenses, ERDAS Imagine 8.1 DIP Software - 5 licenses, an A0 Colour plotter, a Leica GPS GS5+, a Megallan HH GPS, a 5 Mega pixel Digital Camera, an A0 scanner, and a GARMIN 12 XL GPS were procured during the year.

Research Projects:

Ongoing

Rainfall-Runoff Conditions in Meghalaya Plateau. Coordinator: Prof. S. Singh, Rs. 4 Lakhs, UGC sponsored SAP, New Delhi.

Academic/Professional Collaboration : Indo-Polish Collaborative Research Programme under DST (New Delhi) and KBN (Warsawa, Poland) to investigate Run off, Rainfall and Soil Loss in Cherrapunji Area, Meghalaya Plateau (II Phase till March 2007).

Honours/Awards/Recognition : Prof. Surendra Singh received Citation and Scientist award from the Center for Land Use and Management (CULMA), Hyderabad on the occasion of National conference on Space, Science and Technology for Geographical Research and Application (SSTGRA) organized by the Centre for Land Use Management, Hyderabad, 16-18 September, 2005 for his contribution in the field of Agricultural Geography and Watershed Management in the North East India.

Other Activities:

Dr. H. J. Syiemlieh was appointed as the Dean, Students Welfare, NEHU, Shillong.

Prof. B. S. Mipun was appointed as the Coordinator, Coaching for SC/ST students for NET, NEHU, Shillong.

Prof. A. C. Mohapatra delivered invited Lectures under DRS Programme, Department of Geography, AMU, Aligarh (Feb 13-14, 2006) on (a) Paleoclimate over South Asia in late Pleistocene and Early Holocene, and (b) Peopling of Indian Sub-continent, 50,000-2000 BP. He also delivered an invited lecture at the Department of Geography, Utkal University, Bhubaneswar on "Geography as Empirical Science", January 21, 2006.

Prof. Surendra Singh (a) visited the Polish Academy of Sciences, Warsaw, Poland under Indo-Polish Research Collaborative Program (DST-KBN), 24th June-12th July, 2005, and (b) delivered invited lectures on (i) Crop Yield Simulation and Crop Sustainability, Institute of Soil Science and Plant Cultivation, Pulawy (Poland), 25th June, 2005, (ii) Modeling the Structure and Function of Crop Yield for Summer Rice Crop Management in Monsoon Lands, Institute of Geography and Spatial Organization, Polish Academy of Sciences, Warsaw (Poland), 12th July, 2005, and (iii) Crop- Ecological Sustainability and Rice Yield Simulation for Brahmaputra Valley, Research Group working on Agriculture Engineering and Extension, School of Environment, Agriculture and Development, Asian Institute of Technology, Bangkok, 25th August 2005. He also delivered a series of lectures on (i) Regionalization and Agricultural Regions in India and related issues, under SAP-DRS, Department of Geography, Punjab University, Chandigarh, 26- 28 February 2006, and (ii) Spatial Efficiency and Locational Choices of Activities and Agricultural Planning Regions in India, under SAP-DRS, Department of Geography, Delhi School of Economics, University of Delhi, Delhi, 24-26 March 2006, and (g) acted as the Convener, Users Workshop on Generation of Spatial Data of Natural Resources of the Central Part of Meghalaya Plateau, North-Eastern Hill University, Shillong, 17th October, 2005.

Prof. B. S. Mipun acted as (a) Organizing committee member, National Seminar on "Gandhi and Contemporary Society" 28-30 April, 2005, organized by North Eastern Hill University, Shillong, (b) Resource Person in the

Certificate Course on Disaster Management from September 21-23, 2005, NEHU, Shillong, CACE, NEHU and NSS Cell, NEHU and Delivered lectures on Remote Sensing Application in Disaster Assessment, (c) Convenor, Seminar on the Economic Cost of Terrorism & Insurgency in South Asia with Special Reference to North East India, 17th August, 2005 NEHU, in collaboration with ICSSR, NERC, Shillong, and American Centre, Kolkata, (d) Organising Committee Member, 21st East Zone Inter University Youth Festival, 2005 from 24-28th October, 2005, North Eastern Hill University, Shillong in collaboration with the Association of Indian Universities and Ministry of Youth and Sports, Government of India, and (e) Coordinator, 55th NSS Programme Officers Refresher Course from May 17-21, 2005 at NEHU, Shillong, organized by NSS Training and Orientation Centre and Rural Development Centre, IIT, Kharagpur. He also attended Writers' Workshop cum Seminar on "Geography of North-East", 29-30th March 2006, Department of Geography, under DRS Programme and delivered lectures on "Remote Sensing for Hazard Monitoring and Disaster Assessment" and "Geographic Information Systems: Basic Fundamentals" in UGC sponsored Refresher Course in Geography, November 26-December 16, 2005, Banaras Hindu University, Varanasi.

Prof. D. K. Nayak acted as (i) the Cultural Coordination for the 21st East Zone Inter University Youth Festival, 2005 from 24-28th October, 2005, North-Eastern Hill University, Shillong in collaboration with the Association of Indian Universities and Ministry of Youth and Sports, Government of India, and (ii) Convener, "Writers' Workshop cum Seminar on "Geography of North-East" under DRS Programme, 29th-30th March, 2006, Department of Geography, NEHU, Shillong.

Dr. H. J. Syiemlieh (i) visited the Department of Geomorphology and Hydrology, Institute of Geography, PAS, Warsaw & Krakow, Poland during June – July 2005, (b) co-organised one-day Workshop 'Generation of Spatial Data of Natural Resources in Khasi Hills" North-Eastern Hill University, Shillong, 17th October, 2005, and acted as (a) a member of the Organising Committee, 21st East Zone Inter University Youth Festival - 2005, 24th-28th October, 2005, North-Eastern Hill University, Shillong in collaboration with the Association of Indian Universities and Ministry of Youth and Sports, Government of India, and (b) Jt. Convenor, Writers' Workshop cum Seminar on "Geography of North-East" under DRS Programme, 29th-30th March, 2006, Department of Geography, NEHU, Shillong.

Dr. L. Cajee attended one month leadership programme on "Environmental Education in the 21st Century" under the International Visitors' Leadership Programme (IVLP), June-July, 2005 of the U. S. State Department in the United States of America.

Ms. P. K. Rynnga was invited as a Resource person to Arya Vidyapeeth College, Gauhati on 26th September, 2005, and delivered a lecture on "GIS: Better Decisions through Modeling and Mapping the Earth".

DEPARTMENT OF RURAL DEVELOPMENT AND AGRICULTURAL PRODUCTION (TURA)

Head : Dr. L.R. Saha

Telephone : 03651-221407 (O), 221202 (R)

E-mail: lrsaha2001@yahoo.co.in

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

Brief Statement of Academic Activities: The Department undertook both teaching and research in the areas concerning rural development, agronomy, horticulture and animal science. The Department provides both theoretical and practical exposure to its M. Sc. students in various areas relating to the multidisciplinary P.G. programme. In addition, the Department organized various seminars, workshops, talks, demonstrations, and undertook consultancy and evaluation services for promoting entrepreneurship in the fields of dairy, poultry, piggery, fishery, vermicompost, floriculture, mushroom cultivation, etc., during the year 2005-06.

Faculty:

Readers : L. R. Saha, Ph. D. (RAU)
Rakesh Mohan, Ph. D. (BCKV)
Lecturers : J. P. Jaiswal, M. Sc. (All.)
S. K. Nanda, Ph. D. (JNU)

Visiting Professors/ Fellow/Scholar:

Visiting Professor: Dr. Om Prakash, Rural Development, BHU, Varanasi.
Guest Lecturers: Dr. B. K. Mishra, Animal Husbandry and Dairying, BHU, Varanasi.
Dr. Barun Singh, Horticulture, BCKV.
Mr. Md. Mokidul Islam, Agronomy, AAU.
Dr. Sunil Kumar, Horticulture, HAU.

Student Intake:

A. Enrolment capacity: M. Sc. (RDAP) – 10 From Outside
B. Actual Admission : SC/ST Gen Male Female Meghalaya/Meghalaya
M. Sc. (RDAP) 10 - 4 6 10 -

Degrees Awarded : SC/ST Gen Male Female Total
M. Sc. 9 1 7 3 10

Placement of Students: 8 Students out of 10 were selected by the Council for Advancement of People's Action and Rural Technology (CAPART) in collaboration with Institute of Applied Manpower Research (IAMR), New Delhi in May, 2005.

Courses Conducted : General Aspects of Rural Development; Principles of Agriculture; Production Technology of Fruits and Plantation Crops;

Introduction to 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; Rural Economy and Rural Empowerment; Production and Processing of Livestock Products; Rural Research Methods; Silviculture and Sericulture; Rabbit, Fishery and Beekeeping.

Study Tours/Field Trips of Students:

Dr Sunil Kumar accompanied the M. Sc.(RDAP) 4th semester RDAP students on a study tour from 23rd January to 11th February 2006 to CTCRI (Trivandrum), KAU(Thrighure), CAUSAT & CMFRI (Kochi), TNAU (Coimbatore), Mysore, UAS & IIHR (Bangalore), etc., to understand the modern system of development relating to agriculture, animal science and rural development issues.

Rongsen Ao, Mokidul Islam and Barun Singh conducted field works with the 1st and 3rd Semester students at various villages of Garo Hills for obtaining practical knowledge in rural marketing. The students also visited the cashew nut processing unit at Phulbari and Mankachar to acquaint themselves with the practical aspects of processing industries.

Seminars/Conferences/Symposia/Extension Programmes etc:

Organized

The Department organized (i) Workshop on "Mushroom cultivation" on 5th-6th May, 2005 in collaboration with the District Industry Centre, Govt. of Meghalaya, Tura, and ii). A seminar on "Promotion of Entrepreneurship Development in North-Eastern Region: Issues and Challenges" on 24th-25th March, 2006, sponsored by the Ministry of Tribal Affairs, Govt. of India and Indian Council of Social Science Research, NERC, Shillong.

Attended

Dr. S. K. Nanda attended the seminar on "Promotion of Entrepreneurship Development in North-Eastern Region: Issues and Challenges" organized by the Department of RDAP, NEHU, Tura Campus on 24-25th March, 2006 and presented a paper entitled "Socio-cultural Issues and Challenges in Promotion of Entrepreneurship in North-East India: Some Reflections".

Publications:

Journal Publications

Nanda, S. K. 2005. Cultural Identity and Nationalism in Multinational Context: The Indian Experience. *The NEHU Journal*, III(1): 67-88.

Nanda, S. K. 2006. Cultural Nationalism in Multinational Context: The Case of India. *Sociological Bulletin*, 55(1): 24-44.

Patel, D. P., Munda, G. C. and Islam, M. 2005. Dry Matter Partitioning and Yield Performance of HPS Groundnut. *Crop Research*, 30(2): 156-161.

Patel, D. P., Munda, G. C., Islam, M. and Chandra, A. 2005. Influence of Planting Geometry on Growth and Yield Attributes of Blackgram. *Crop Research*, 30(3):342-344.

Mohan, R., Sailo, R. L. and Sahoo, U. K. 2005. Effect of Subabul, *Leucaena leucocephala* (LAM.) DE WIT on the Growth and Productivity of Paddy (*Oryza sativa*) in Mizoram, India. *Journal Natcon*, 17(1): 125-133.

Sahoo, U.K., Mohan, R., V. Maxborn, P.C. and Sangma, M. 2005. Effect of *Leucaena leucocephala* (LAM.) DE WIT on Growth and Yield of *Zea mays* L. in the Humid Subtropics of Mizoram, India. *Journal Natcon*, 17(1): 177-183.

Funds Received from Agencies other than NEHU : A sum of Rs. 50,000/- from Ministry of Tribal Affairs, Govt. of India and Rs. 15,000/- from Indian Council of Social Science Research, NERC, Shillong were received to organize a two day seminar on "Promotion of Entrepreneurship Development in North-Eastern Region: Issues and Challenges" during 24-25th March, 2006.

Infrastructure Facilities: The Department established a Vermicompost unit (size 28 m x 24 m containing 8 pits of 2m x 1m along with 2 storage pits of 3m x 1.3 m), a Net House (size 46' x 24'), & a Poly House (size 46' x 24'), Heifer shed (8.5 m x 4.5m) and paddy straw shed of CGI sheet roofing (14 m x 4 m) during 2005-06. Besides these, four laboratories for horticulture, agronomy, soil science and animal science were established for giving practical training to M. Sc. students.

Academic/Professional Collaboration: The Department undertook 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.

Other Activities : During 2005-06, the Dairy unit produced a total of 23,487.5 litres of milk, which provided total revenue of Rs. 3,53,756.5 to the University. Further, Agriculture/ Horticulture produce provided total revenue of Rs 11,704/- to the University.

CENTRE FOR ENVIRONMENTAL STUDIES

Head : Dr. O.P. Singh

Telephone : 2721159 (O), 2550009 (R)

E-mail: opsinghnehu@rediffmail.com

Thrust Area of Research: Biodiversity Conservation, Environmental Monitoring, Forest Management, Environmental Impact Assessment, Environmental Biology, Integrated Pest Management, Geophysical study of NE Region, Policy Oriented Research on Forest and Environment and Water Shed Management.

Brief Statement of Academic Activities: During this year, 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; International Development Research Centre (IDRC), Canada; International Centre for Integrated Mountain Development (ICMOD), Kathmandu; Community Forest International, Santa Barbara, USA; G. B. Pant Institute of Himalayan Environment and Development, Almora; Mawmluh Cherra Cement Ltd, Cherrapunji, Meghalaya; Meghalaya Cement Ltd, Thangskai, Meghalaya, and Aus Aid, Shillong sponsored and collaborated with the Center in its research programmes. Under its extension and outreach activities, the Centre organized a Regional level workshop on Traditional Knowledge Based Biodiversity Conservation Practices in North East India, which was sponsored by United States Education Foundation in India (USEFI), New Delhi. This year the Centre received grants of more than Rs. 17 Lakhs from various external funding agencies, which were used to strengthen the ongoing research and extension activities and development of laboratories 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./Ph. D. (Gau.)
 D. Paul, M. Sc./Ph. D. (NEHU)
 S. S. Chaturvedi, M. Sc. (Gorakh.), Ph. D. (BHU)

Student Intake:

A. Enrolment capacity : Certificate Course - 10; Ph. D. - Variable
 B. Actual admission : SC/ST/Gen Male/Female Meghalaya/Non-Meghalaya
 Certificate Course 10 - 3 7 10 -

Degrees awarded : SC/ST Gen Male Female Total
 Certificate Course 10 - 3 7 10

Courses Conducted : Fundamentals of Environmental Science and Ecological Principles; Environmental Pollution and Environmental Impact Assessment; Environmental Conservation and Environmental Problems of North-East India.

Seminars/Conferences/Symposia/Extension Programmes etc.:

Organized

The Centre organized a capacity building workshop on "Farmer's Rights, Benefit Sharing on Traditional Knowledge and Prior Informed Consent" in collaboration with Consumer Unity Trust, Kolkata on 8th February, 2006. Professor B. K. Tiwari directed the workshop.

The Centre organized a workshop on "Traditional Knowledge Based Biodiversity Conservation Practices in Northeast India" in collaboration with United States Education Foundation and Fulbright, New Delhi on 23rd-24th March, 2006. Dr. S. S. Chaturvedi directed the workshop.

Attended

Professor B. K. Tiwari attended (i) 3rd IAELP International Workshop on Environmental Impact Assessment: Practice and Potential, Gwalior, April 18-20, 2005 and presented a paper entitled "Biological Impact Assessment" organized by USEFI-Fulbright, (ii) the International Workshop on Shifting Agriculture, Environment Conservation and Sustainable Livelihood of Marginal Mountain Societies, October 6-10, 2005, Guwahati, organized by JNU, New Delhi, NIRD-NERC Guwahati and UNU, Tokyo and presented a paper entitled "Stabilizing shifting Agriculture and Natural Resources Management Systems in Hill Regions of Northeastern India", (iii) Third International Conference on Plants and Environmental Pollution, NBRI, Lucknow, 28th November-2nd December, 2005 and presented a paper entitled 'Changes in soil properties microbial population and plant diversity during natural recovery of coalmine spoils in Jaintia Hills of Meghalaya', (iv) "URJA 2006" at Shillong, 23-24 February, 2006 organized by BARC, Mumbai and NEHU, Shillong and presented a paper entitled "*Jayantia Pahari Anchal me Koyale ke Utkhanan ka Paryavarniya Prabhav*", (v) the International Symposium on 'Towards Sustainable Livelihoods and Ecosystems in Mountainous Regions', 7th-9th March, 2006 Chiang Mai, Thailand and presented a paper entitled "Impact of Cash Crops on Gender Relation Dynamics in Khasi Community - a matrilineal tribe of Meghalaya, India" organized by Upland Programme, University of Hohenheim, Germany, (vi) the USEFI-Fulbright sponsored workshop on Traditional Knowledge Based Biodiversity Conservation Practices, 23rd-24th March, 2006 at Shillong and presented a paper entitled "Traditional Knowledge based NRM Practices of Khasi Community", and (vii) the Workshop on Conservation of Biological Resources of Meghalaya held on 29th March, 2006, and delivered an invited lecture entitled "Forest Resources of Meghalaya".

Dr. O. P. Singh attended (i) the Annual conference on "Molecular Biology and Functional Genomics" organized by the Department of Molecular Biology and Functional Genomics, Stockholm University, Stockholm, Sweden on November 21, 2005 at Haga Forum, Stockholm, Sweden, and (ii) the Annual Research Presentation of the Department of Molecular Biology and Functional Genomics, Stockholm University, Stockholm, Sweden on March 15th, 2006 and delivered a lecture on "Serine-Arginine (SR) proteins and their role in mRNA biogenesis".

Dr. S. S. Chaturvedi attended (i) a Symposium on Surface Water Management in Meghalaya with Special Reference to Shillong City organized by Meghalaya Economic Association, Meghalaya on 10th November, 2005 and

presented a paper entitled "Conservation of Surface Water Resources of Meghalaya", and (ii) DST, New Delhi sponsored National Workshop on "Integrated Management of Natural Resources in Mountain Regions" organized by Department of Environmental Science and Department of Civil Engineering, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttaranchal from 28th November to 2nd December, 2005 and presented a paper entitled "Seasonal variation in physico-chemical and bacteriological properties of river Umshyrpi, Shillong".

Publications:

Journal Publications

Published in India

Chaturvedi, S. S. 2005. Groundwater Conditions around Panchkroshi Pilgrimage Route. *Indian Journal of Environment & Ecoplanning*, 10(2): 335-340.

Chaturvedi, S. S. 2005. Monthly Variation in Plant Biomass, Net Primary Productivity and Turnover of Gangetic Wasteland of Varanasi. *Geobios*, 32(2-3): 125-128.

Lalnunmawia, F., Jha, L. K. and Lalengliana, F. 2005. Preliminary Observation on Ecological and Economical Impacts of Bamboo Flowering in Mizoram (North-East India). *Journal of Bamboo and Rattan*, 4(4): 317-322.

Published Abroad:

Tiwari, B. K. and Kayenpaibam, P. 2006. Ecological Impact of Joint Forest Management in Tripura, India. *International Journal of Environment and Sustainable Development*, 5 (1): 23-34.

Book/Book Chapter Publication:

Chaturvedi, S. S., Tariang, D. and Tiwari, B. K. 2005. Seasonal Variation in Physico-Chemical and Bacteriological Properties of River Umshyrpi, Shillong. In: *Proceedings of National Workshop on Integrated Management of Natural Resources in Mountains*, G.B. Pant University of Agriculture & Technology, Pantnagar, Uttaranchal, 28th November to 2nd December, 2005, pp. 173-182.

Darlong, V. T. and Tiwari, B. K. 2005. Key Mining Policies and Laws Governing the Mining Industry in India. In: *Mining Environment: Problems and Remedies* (Ed. O. P. Singh), pp. 223-227. Regency Publications, New Delhi.

Singh, O. P. 2005. Mining Environment: Problems and Remedies. Regency Publication, New Delhi, pp. 1-278.

Singh, O. P. 2005. Regulations for Management of Mining Environment in India. In: *Mining Environment: Problems and Remedies* (Ed. O. P. Singh), pp. 228-235. Regency Publication, New Delhi.

Singh, O. P. 2005. Minerals and Mining in India and its Environmental Implications. In: *Mining Environment: Problems and Remedies* (Ed. O. P. Singh), pp. 3-16. Regency Publication, New Delhi.

Singh, O. P. 2005. Acid Mine Drainage: A Serious Environmental Problem of the Mining Areas. In: *Mining Environment: Problems and Remedies*. (Ed. O. P. Singh), pp. 25-40. Regency Publication, New Delhi.

Swier, S. and Singh, O. P. 2005. Water Pollution in Coal Mining areas of Jaintia Hills, Meghalaya and its Impact on Benthic Macroinvertebrates. In: *Mining Environment: Problems and Remedies* (Ed. O. P. Singh), pp.57-69. Regency Publication, New Delhi.

Tiwari, B. K. 2005. Forest Biodiversity Management and Livelihood Enhancing Practices of War Khasis of Meghalaya, India. In: *Himalayan Medicinal and Aromatic Plants, Balancing Use and Conservation* (Eds. Y. Thomas, M. Karki, K. Gurung, and D. Parajuli), pp. 240-255. His Majesty's Government of Nepal, Ministry of Forest and Soil Conservation, Kathmandu.

Funds Received from Agencies other than NEHU:

Source	Amount (Rs.)
Department of Science and Technology(DST), Govt. of India, New Delhi.	5,82,957
United States Education Foundation in India (USEFI) Fulbright, New Delhi.	35,000
Centre for International Forestry Research (CIFOR), Indonesia.	1,80,000
Meghalaya Cement Ltd, Thangskai, Meghalaya.	2,25,000
Mawmluh Cherra Cement Ltd., Cherrapunjee, Meghalaya.	2,41,000
Shillong Urban Water Supply and Environment Sanitation Project (Aus. Aid), Shillong.	2,01,250
Meghalaya Urban Development Agency, Shillong.	2,50,000
Total	Rs. 17,14,957/-

Infrastructure facilities: Digital Sound Level Meter, Global Positioning System Instrument, Computers, Printers and peripherals were added to the existing facilities of the Centre.

Research projects:

Ongoing

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

Environmental study at Thangskai, Meghalaya. Prof. B. K. Tiwari, Rs. 8.0 Lakh, Meghalaya Cement Ltd., Thangskai, Meghalaya.

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

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

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.

Geophysical Studies of NE Region Using Magnetotelluric Technique. Dr. Devesh Walia, Rs. 18.0 Lakhs, Department of Science & Technology, Govt. of India, New Delhi.

New

Forest Product Marketing, Livelihood Links and Potential for Growth in Meghalaya. Prof. B. K. Tiwari, US\$ 20,000, Centre for International Forestry Research (CIFOR), Bogor, Indonesia.

Environmental Impact Assessment and Environmental Management Plan for New Shillong. Principal Investigator: Prof. B. K. Tiwari, Rs. 5.0 Lakhs, Meghalaya Urban Development Agency, Shillong, Meghalaya.

Completed

Biodiversity Enriching and Livelihood Enhancing Practice of NTFP, MP and MAP Management of War Khasi of Meghalaya, India. Prof. B. K. Tiwari, Rs. 9.0 Lakhs, International Development Research Centre, Canada.

Biomonitoring of water quality in coal mining areas of Meghalaya. Dr. O. P. Singh, Rs. 5.64 Lakhs, G.B. Pant Institute of Himalayan Environment and Development, Almora.

Ecological and Economic assessment of Joint Forest Management in Tripura. Prof. B. K. Tiwari, Rs. 9.0 Lakhs, Indian Institute of Science, Bangalore.

Academic/Professional Collaborations: The Center had collaborations with the following institutions:

Centre for International Forestry Research, Bogore, Indonesia on Forests that Benefit the Poor: Linking income generation to influence among forest communities in Asia, 2004-2006.

Community Forestry International, Santa Barbara, USA, on Community Forestry Alliance for Northeast India. 2004-2006. Professor Tiwari is Senior Academic Advisor to the project.

Meghalaya Cement Ltd. (MCL), Thangskai, Meghalaya, for Environmental study at Thangskai, Meghalaya. Principal Investigator: Prof. B. K. Tiwari; Co-Investigators: Dr. O. P. Singh and Dr. S. K. Barik.

Shillong Urban Water Supply and Environmental Sanitation (SUWSES) Project (Aus-Aid), Shillong for Water Quality Survey of River Umshyrpi. Principal Investigator: Prof. B. K. Tiwari; Co-Investigator: Dr. S. S. Chaturvedi.

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

Dr. Devesh Walia collaborated with Indian Institute of Geomagnetism, Navi Mumbai, Mumbai.

United States Education Foundation in India (USEFI), New Delhi, in connection with organization of Regional workshop on Traditional Knowledge Based Biodiversity Conservation Practices in North East India.

Honours/Awards/Recognition: Dr. O. P. Singh was awarded a fellowship of the Wenner-Gren Foundations, Sweden to spend a year of his sabbatical leave from July 2005 at the Department of Molecular Biology and Functional Genomics, Stockholm University, Stockholm, Sweden.

Other Activities:

Prof. L. K. Jha, Dr. Devesh Walia (Lecturer Selection Grade), and Dr. D. Paul (Senior Lecturer) joined the Centre on 27th February, 2006.

Dr. Devesh Walia participated in a training programme on "Gustral Deformation and Tectonic Geomorphology using Global Positioning System" organized by Centre for Mathematical Modeling and Computer Simulation (C-MACS), Bangalore, funded by DST, GOI, New Delhi, SERC School, from 13th to 24th February, 2006.

Dr. D. Paul participated in the 32nd Refresher Course on "Recent Advances in Zoology" organized by the Department of Zoology, NEHU, Shillong from 22nd February to 15th March, 2006.

Dr. S. S. Chaturvedi participated in the 39th Orientation Course on Information Technology organized by UGC Academic Staff College, BHU, Varanasi from 18th May to 14th June, 2005.

Prof. B. K. Tiwari attended two international workshops entitled (i) "Raising Funds and Mobilizing Resources for MAP Works" organized by IDRC, New Delhi, India Habitat Centre, New Delhi, April 22-23, 2005, and (ii) "Sharing of wise practices in quality production and sustainable management of medicinal and aromatic plants in south Asia" 20-21 April, 2005, New Delhi organized by TERI, New Delhi as invited resource person.

Dr. O. P. Singh delivered two lectures on April 1 & 2, 2005 in Teachers Training Programme Organized by NCERT, New Delhi for the Science teachers of Northeast at Shillong. The Department of Cell and Molecular Biology, Karolinska Institute, Stockholm, Sweden invited him to participate in a panel discussion on 'Preferential binding of SR proteins to the secretory protein gene transcripts in *Chironomus tentans*' held on Oct. 7, 2005. Dr. Singh also participated in a number of lectures organized by the Nobel Forum, Stockholm; Karolinska Institute, Stockholm; Stockholm University, Stockholm and other organizations on various topics of modern biology.

Dr. (Mrs.) Tone Bleie, UNESCAP, Bangkok, Dr. Jochen Kenneweg, FMECD, Bonn, Dr. Zbigniew Mikolajuk, ICIMOD, Kathmandu and Dr. S. W. Hlaing UNE, Yangon, Members of governing body of International Centre for Integrated Mountain Development (ICMOD), Kathmandu visited the Centre on 24th November, 2005.