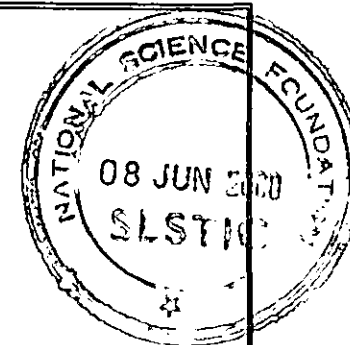


SOUTH ASIAN ASSOCIATION FOR REGIONAL COOPERATION



**DIRECTORY
OF
SCIENTIFIC AND TECHNOLOGICAL
ACTIVITIES
SRI LANKA**

COMPILED BY
NATURAL RESOURCES, ENERGY & SCIENCE AUTHORITY OF SRI LANKA
MINISTRY OF SCIENCE, TECHNOLOGY AND HUMAN RESOURCES DEVELOPMENT

1995

Subject area*	Page
1. Science Policy	1
2. Energy (integrated approach to energy problems, R&D in non-conventional and renewable sources of energy)	3
3. Food Technology	5
4. Transfer and adaptation of Appropriate Technology	8
5. Survey of Natural Resources and Remote Sensing	10
6. Forestry Development and Erosion Control	13
7. Mining and Ore Beneficiation	14
8. Micro-electronics & Electronics	15
9. Marine Science	16
10. Instrumentation, including repair and maintenance	17
11. Genetic Engineering	18
12. Environment, with special reference to pollution control	19
13. Informatics	22

*Subject areas identified by the Study Group

Area	Institutions	Relevant activities for possible co-operation	Mechanisms of co-operation
(1)	(2)	(3)	(4)
1. Science Policy	<p>(a) Natural Resources, Energy & Science Authority, 47/5, Maitland Place, Colombo 07.</p> <p>(b) Ceylon Institute of Scientific and Industrial Research (CISIR), 363, Bauddhaloka Mawatha, Colombo 7.</p>	<p>1. Analysis of S & T strategies</p> <p>2. Formulating new S & T Policy & Actions</p> <p>3. S & T Management information systems</p> <p>4. Management and evaluation of R&D</p> <p>5. Forecasting S & T manpower needs</p> <p>1. Analysis of Science and Technology strategies</p>	<p>1. Exchange visits</p> <p>2. Workshops</p> <p>3. Training</p> <p>4. Consultancy</p> <p>1. Exchange visits</p> <p>2. Cooperative Research studies</p>

(1)	(2)	(3)	(4)
1. Science Policy	<p>(c) Computer and Information Technology Council of Sri Lanka (CINTEC), Suite 2-201, BMICH, Buddhaloka Mawatha, Colombo 07.</p> <p>(d) Centre for Development Information, Dept. of National Planning, The Secretariat, Colombo 01.</p>	<p>1. Policy Studies in Information Technology</p> <p>1. Developing Data Bases</p>	<p>1. Exchange Visits</p> <p>2. Workshops</p> <p>3. Collaborative Research/Studies</p> <p>1. Exchange of information and experiences</p> <p>2. Exchange visits</p>

(1)	(2)	(3)	(4)
<p>2. Energy (integrated approach to energy problems, R & D in non-conventional and renewable sources of energy)</p>	<p>(a) National Engineering Research & Development Centre of Sri Lanka, 2P/17B, Industrial Estate, Ekala, Jaela.</p> <p>(b) Ceylon Petroleum Corporation, No. 113, Galle Road, Colombo 03.</p> <p>(c) National Aquatic Resources Agency, Oceanography Division, Crow Island, Colombo 15.</p>	<p>1. Geotechnical investigations for Hydroelectric Projects. Integrated Evaluation, Development of Minihydroelectric Resources</p> <p>1. Integrated Geological/Geophysical surveys of Exploration for Oil</p> <p>2. Energy Policy and Planning Rural Energy, Renewable energy Technologies, Energy Conservation</p> <p>1. Research on Ocean Energy harness systems</p>	<p>1. Training 2. Workshops 3. Publications</p> <p>1. Exchange visits 2. Consultancy 3. Project Preparation Training and Information dissemination/ Seminar, Workshop etc. 4. Exchange of Scientific and Technological Information</p> <p>1. Exchange visits 2. R & D works 3. Workshops, Seminars, Conferences</p>

(1)	(2)	(3)	(4)
2. Energy (integrated approach to energy problems, R & D in non-conventional and renewable source of energy)	<p>(d) Lanka Ceramic Limited, Raw Material Division, Piliyandala.</p> <p>(e) Institute of Fundamental Studies, Hantana Road, Kandy.</p>	<p>1. Energy conservation</p> <p>2. Development of fuel efficient kiln</p> <p>1. Photochemical solar energy utilization. eg. Photochemical solar cells and photocatalysis</p> <p>2. Geo-thermal Energy investigations</p>	<p>1. Workshops</p> <p>2. Seminars</p> <p>3. Consultancy</p> <p>1. Co-operative research</p> <p>2. Execution through contracts</p> <p>3. Exchange of experts</p> <p>4. Training</p>

(1)	(2)	(3)	(4)
3. Food Technology	(a) Buttala Affiliated University College, Buttala.	<ol style="list-style-type: none"> 1. Assessment of post harvest losses in foodgrains, fruit, vegetable, fish meat and poultry 2. Setting up of food analysis laboratories 3. Projects on scientific storage of food grains particularly Maize 4. Product and processing development 5. Studies on traditional food processing methods 6. Promotion of rural training in nutrition, food manufacture related fields 7. Development, transfer and adaptation of appropriate technology 	<ol style="list-style-type: none"> 1. Research and development work 2. Workshops/ Seminars 3. Training Courses 4. Exchange of information 5. On the job training 6. Staff exchange

(1)	(2)	(3)	(4)
3. Food Technology	<p>(b) Ceylon Institute of Scientific & Industrial Research (CISIR) 363, Baudhaloka Mawatha, Colombo 7.</p> <p>(c) Government Analyst's Department, Torrington Square, Colombo 07.</p> <p>(d) National Engineering Research & Development Centre, 2P/17B, Industrial Estate, Ekala, Jaela.</p>	<p>1. Process and Product development</p> <p>2. Technical services (Quality assurance, Trouble shooting etc.)</p> <p>3. Post harvest technology</p> <p>1. Analysis of food samples for quality assurance purposes</p> <p>1. Short-term courses for personnel from industry, government organisations in different post harvest aspects of food materials, their quality control and safety</p>	<p>1. Exchange visits</p> <p>2. Workshops</p> <p>3. On the Job Training</p> <p>4. Consultancy</p> <p>5. Exchange of Technology</p> <p>1. Exchange of visits of food scientists</p> <p>2. Training courses</p> <p>3. Collaborative Research/Studies</p> <p>1. Consultancy</p> <p>2. Training</p>

(1)	(2)	(3)	(4)
3. Food Technology	(e) National Aquatic Resources Agency, Institute of Post Harvest Technology, Crow Island, Colombo 15.	<ol style="list-style-type: none"> 1. Research in Fish Technology 2. Activities pertaining to microbiological profiles of fish and fish products 3. Advisory services on Fish Technology and Quality Control 	<ol style="list-style-type: none"> 1. Co-operative research studies 2. Training 3. Consultancy

(1)	(2)	(3)	(4)
4. Transfer and adaptation of Appropriate Technology	(a) Ceylon Institute of Scientific & Industrial Research (CISIR), 363, Bauddhaloka Mawatha, Colombo 07.	(1) Small and medium entrepreneur development	1. Workshops 2. Exchange visits
	(b) Computer and Information Technology Council of Sri Lanka (CINTEC), Suite 2-201, BMICH, Bauddhaloka Mawatha, Colombo 07.	(1) R & D in use of Local Languages in Information Technology	1. Collaboration 2. Training 3. Workshops/Seminars
	(c) Lanka Ceramic Limited, Raw Material Division, Piliyandala.	(1) Development and transfer of Modern Ceramic Technology	1. Exchange of technologies 2. Expert group meeting 3. Training programmes 4. Consultancy
	(d) Sri Lanka Rupavahini (TV) Corporation, P.O. Box 2204, Colombo	(1) Design & Development of Broadcast TV Networks (Studios & Transmitters) (2) Operation & maintenance of modern TV equipment	1. Consultancy 2. Project preparation 3. Exchange of information and experience 4. Workshops/Seminars 5. Exchange visits 6. R & D

(1)	(2)	(3)	(4)
4. Transfer and adaptation of appropriate Technology	(e) The Department of National Archives, 7, Reid Avenue, Colombo 07.	1. Investigations on methodologies of conservation and preservation of Archival and library material such as the development of insecticides and strengthening agents	1. Research colaboration 2. Exchange visitis 3. Publications 4. Seminars 5. Training

(1)	(2)	(3)	(4)
5. Survey of Natural Resources and Remote Sensing	<p>(a) Sri Lanka Survey Department, No. 150, Kirula Road, P.O. Box 506, Colombo 05.</p> <p>(b) Geological Survey & Mines Bureau, No. 4, Galle Road, Dehiwala.</p>	<p>1. Associated manpower development & demonstration/pilot projects to support the National Geographical information programme</p> <p>2. Remote Sensing - Digital interpretation of satellite data</p> <p>3. To update & establish a new geodetic control net for Sri Lanka</p> <p>4. Training programmes for support of above</p> <p>1. Up dating of Structural/Tectonic maps using remote sensing techniques</p> <p>2. Mapping of quaternary deposits</p> <p>3. Geophysical and Drilling techniques in mineral exploration and site - investigations</p>	<p>1. Training courses</p> <p>2. Work shops</p> <p>3. On- the job training and consultancy through Government to Government and through the Ministry of Agriculture Land and Forestry of Sri Lanka</p> <p>1. Sharing of facilities and experience</p> <p>2. Training and exchange visits</p>

(1)	(2)	(3)	(4)
5. Survey of Natural Resources and Remote sensing	(c) Water Resources Board, No. 2A, Gregory's Avenue, Colombo 7.	1. Systematic monitoring, sampling and recording of geological, hydrogeological, chemical data and other parameters of the groundwater resources from drilling of production and test tube wells, pumping tests and prospecting etc.	1. Exchange of visits 2. Consultancy 3. Execution through contracts.
	(d) Lanka Ceramic Limited, Raw Material Division, Piliyandala.	1. Survey for Kaolin, Ball Clay, Feldspar, Quartz etc.	1. Training programmes 2. Technical Assistance 3. Consultancy
	(e) National Aquatic Resources Agency, Marine Biological Resources Agency, Crow Island, Colombo 15.	1. Use of remote sensing in fisheries 2. Survey of deepwater demersals and flying fish resources	1. Training courses 2. Cooperative research studies 3. Exchange visits

(1)	(2)	(3)	(4)
5. Survey of Natural Resources and Remote Sensing	(f) National Aquatic Resources Agency, Inland Aquatic Resources Division, Colombo 15.	<ol style="list-style-type: none"> 1. Identification of suitable areas for aquaculture 2. Brackish water aquaculture: environment management 3. Inland fisheries management 	<ol style="list-style-type: none"> 1. Exchange visits. 2. Colaborative research programmes 3. Training programmes 4. Literature exchange
	(g) Forest Department, 'Sampathpaya', Rajamalwatta Road, Battaramulla.	<ol style="list-style-type: none"> 1. Design and development of techniques for Natural Resources Survey 	<ol style="list-style-type: none"> 1. On the job training 2. Consultancy 3. Exchange visits 4. Exchange of Information
	(h) Institute of Fundamental Studies, Hantana Road, Kandy.	<ol style="list-style-type: none"> 1. Integrated geological, mineralogical and geochemical surveys for mineral resources, especially gems 	<ol style="list-style-type: none"> 1. Co-operative research 2. Execution through contracts 3. Exchange of experts 4. Training
	(i) Arthur C. Clarke Centre for Modern Technologies, Katubedda, Moratuwa	<ol style="list-style-type: none"> 1. Developing multidisciplinary data base and exploration strategy 2. Research & observation of the Globe (sector of the Globe) 	<ol style="list-style-type: none"> 1. Exchange visits 2. Training courses 3. Workshops

(1)	(2)	(3)	(4)
6. Forestry Development and Erosion Control	<p>(a) Natural Resources Management Centre, Dept. of Agriculture, P.O. Box 52, Peradeniya</p> <p>(b) Forest Department, 'Sampathpaya', Rajamalwatta Road, Battaramulla.</p>	<p>1. Survey and mapping of erosion hazard areas</p> <p>2. Development of low input technology for erosion control on steep slopes</p> <p>3. Development of new farming system for sloping lands</p> <p>1. Tree breeding and Propagation</p> <p>2. Partipatory approaches for forestry development</p>	<p>1. Workshops</p> <p>2. Exchange visits</p> <p>3. Training courses</p> <p>4. Research</p> <p>1. Exchanging visits</p> <p>2. Exchange of experts</p> <p>3. On the job training</p> <p>4. Exchange of technologies</p> <p>5. Training</p>

(1)	(2)	(3)	(4)
7. Mining and Ore Beneficiation	<p>(a) Lanka Phosphate Ltd. 63, Elvitigala Mawatha, Colombo 08.</p> <p>(b) Bogala Graphite Lanka Ltd. 63, Elvitigala Mawatha, Colombo 08.</p> <p>(c) Geological Survey & Mines Bureau, No. 4, Galle Road, Dehiwala.</p>	<p>1. Exploration for phosphate deposits</p> <p>2. Geological surveys</p> <p>3. Expansion of operations</p> <p>1. Ore upgrading</p> <p>2. Mining methods/Exploration</p> <p>3. Financing for equipment</p> <p>1. Development of mineral and mining database</p> <p>2. Mining methods and blasting techniques</p> <p>3. Study of environmental impacts of mining activities</p>	<p>1. Consultancy</p> <p>2. Finance</p> <p>3. Training</p> <p>1. Consultancy service</p> <p>2. Financing</p> <p>3. Training</p> <p>1. Joint studies</p> <p>2. Expert advice</p> <p>3. Training and exchange visits</p>

(1)		(3)	(4)
8. Micro-electronics & Electronics	<p>(a) Ceylon Institute of Scientific and Industrial Research (CISIR), 363, Bauddhaloka Mawatha, Colombo 07.</p> <p>(b) Sri Lanka Rupavahini (TV) Corporation, P.O. Box 2204, Colombo.</p> <p>(c) Arthur C. Clarke Centre for Modern Technologies, Katubedda, Moratuwa.</p>	<p>1. Electronic equipment repair and maintenance</p> <p>1. Servicing & maintenance of Broadcast Grade Audio/Video equipment & systems</p> <p>1. Research activities</p>	<p>1. Exchange of expertise</p> <p>1. On-the-job training 2. Workshops/Seminars</p> <p>1. Training of scientific and technical personnel 2. Exchange of information and experience 3. Workshops 4. R & D work</p>

(1)	(2)	(3)	(4)
9. Marine Science	<p>(a) National Aquatic Resources Agency, Marine Biological Resources Agency, Crow Island, Colombo 15.</p> <p>(b) National Aquatic Resources Agency, Oceanography Division, Crow Island, Colombo 15.</p>	<p>1. Use of remote sensing in fisheries</p> <p>2. Survey of deepwater demersals and flying fish resources</p> <p>1. Research on Physical, Chemical, Biological, and Geological parameters of the Ocean, Estuaries, coastal waters and other water bodies</p>	<p>1. Training courses</p> <p>2. Cooperative research studies</p> <p>3. Exchange visits</p> <p>1. Exchange visits</p> <p>2. R & D works</p> <p>3. Workshops, Seminars, Conferences</p>

(1)	(2)	(3)	(4)
10. Instrumentation, including repair and maintenance	(a) Ceylon Institute of Scientific and Industrial Research (CISIR), 363, Bauddhaloka Mawatha, Colombo 07.	<ol style="list-style-type: none"> 1. Modern analytical methods 2. Repair and maintenance of laboratory and industrial equipment 	<ol style="list-style-type: none"> 1. Workshops 2. Exchange of expertise 3. On the job training 4. Exchange visits 5. Consultancy
	(b) Sri Lanka Rupavahini (TV) Corporation, P.O. Box 2204, Colombo	<ol style="list-style-type: none"> 1. Servicing & Maintenance of Broadcast Grade Audio/Video equipment & systems 	<ol style="list-style-type: none"> 1. On-the--job training 2. Workshops/Seminars
	(c) Government Analyst's Department, Torrington Square, Colombo 07	-	<ol style="list-style-type: none"> 1. Training 2. Workshops
	(d) Arthur C. Clarke Centre for Modern Technologies, Katubedda, Moratuwa	<ol style="list-style-type: none"> 1. Research activities 	<ol style="list-style-type: none"> 1. Training of scientific and technical personnel 2. Exchange of information and experience 3. Workshops 4. R & D work 5. Exchange visits
	(e) Atomic Energy Authority, Ceramics Building, 696, 1/1, Galle Road, Colombo 03.	<ol style="list-style-type: none"> 1. Calibration 2. Maintenance and quality control 3. Standardisation of instruments 	<ol style="list-style-type: none"> 1. Training 2. Expert Assistance 3. Information Exchange 4. Post-graduate Fellowships

(1)	(2)	(3)	(4)
11. Genetic Engineering	(a) Dept. of Biochemistry & Molecular Biology, Faculty of Medicine, Univ. of Colombo, P.O. Box 271, Kynsey Road, Colombo 08.	<ol style="list-style-type: none"> 1. Development of DNA based diagnostic techniques 2. Polymerase Chain Reaction technology 3. Cloning, Characterization and sequencing of genes from filarial parasites causing human filariasis (<u>W. Bancrofti</u>) and animal filariasis (<u>S. digitata</u> and <u>D. repens</u>) 	<ol style="list-style-type: none"> 1. Directly between the foreign institutions and University of Colombo. Via exchange visits and collaborative research
	(b) Plant Genetic Resources Centre, P.O. Box 59, Peradeniya.	<ol style="list-style-type: none"> 1. Joint programmes on collection and conservation of genetic resources 	<ol style="list-style-type: none"> 1. Training of scientific and technical personnel 2. Seminars 3. Workshops 4. Cooperative research
	(c) Institute of Fundamental Studies, Hantana Road, Kandy.	<ol style="list-style-type: none"> 1. Development of Malaria Vaccines 2. Biological Dinitrogen Fixation 	<ol style="list-style-type: none"> 1. Co-operative research 2. Execution through contracts 3. Exchange of experts 4. Training

(1)	(2)	(3)	(4)
12. Environment with special reference to Pollution Control	<p>(a) Ceylon Institute of Scientific and Industrial Research (CISIR), 363, Bauddhaloka Mawatha, Colombo 07.</p> <p>(b) Radio Isotope Centre Univ. of Colombo, P.O. Box 1490, Colombo.</p>	<p>(a) Monitoring of environment pollution</p> <p>(b) Environment impact assessment (EIA)</p> <p>(c) Construction, fabrication, commissioning and upgrading of effluent treatment plants</p> <p>(d) Waste management and disposal</p> <p>(e) Abatement of noise and vibration</p> <p>(f) Environmental audits</p> <p>(g) Initial Environmental Examination (IEE)</p> <p>1. Use of Nuclear Techniques in pollution studies and pollution control</p>	<p>1. Exchange of technology</p> <p>2. Workshops</p> <p>3. On the job training</p> <p>4. Exchange visits</p> <p>5. Consultancy</p> <p>1. Exchange visits</p> <p>2. Cooperative Research/studies</p>

(1)	(2)	(3)	(4)
12. Environment with special reference to Pollution Control	(c) Central Environmental Authority, Maligawatte New Town, Colombo 10.	1. Environmental technology with special attention to pollution control	1. Exchange visits 2. Training courses 3. Consultancy 4. Workshops
	(d) Government Analyst's Department, Torrington Square, Colombo 07.	1. Analysis of water, soil samples etc. 2. New techniques	1. Exchange visits 2. Training courses 3. Workshops
	(e) Centre for Development Information, Department of National Planning, The Secretariat, Colombo 01.	1. Developing data bases	1. Exchange of information and experiences 2. Exchange visits
	(f) Institute of Fundamental Studies, Hantane Road, Kandy.	1. Water pollution and control 2. Aquatic ecology 3. Greenhouse gases 4. Acid rain 5. Environmental geochemistry and health	1. Co-operative research 2. Execution through contracts 3. Exchange of experts 4. Training

(1)	(2)	(3)	(4)
12. Environment with special reference to Pollution Control	<p>(g) Atomic Energy Authority, Ceramic Building, 696, 1/1, Galle Road, Colombo 03.</p> <p>(h) National Aquatic Resources Agency, Division of Environmental Studies, Crow Island, Colombo 15.</p>	<p>1. Use of radio-tracer techniques for pollution control</p> <p>2. Measurement of environmental radioactivity</p> <p>1. Chemical & microbiological analysis of drinking water, waste water, sewage water and industrial effluent</p> <p>2. Monitoring of industrial effluent</p> <p>3. Environmental Impact Assessment for development projects</p> <p>4. Advisory services on Environmental Emergencies and problems related to degradation of water</p> <p>5. Studies on eutrophication of inland waters</p>	<p>1. Training</p> <p>2. Expert assistance</p> <p>3. Information exchange</p> <p>4. Post-graduate fellowships</p> <p>1. Co-operative Research Studies</p> <p>2. Training</p> <p>3. Consultancy</p>

(1)	(2)	(3)	(4)
13. Informatics	<p>(a) Natural Resources, Energy & Science Authority, 47/5, Maitland Place, Colombo 07.</p> <p>(b) Computer & Information Technology Council of Sri Lanka (CINTEC), Suite 2-201, BMICH, Bauddhaloka Mawatha, Colombo 07.</p> <p>(c) Sri Lanka Rupavahini (TV) Corporation, P.O. Box 2204, Colombo</p> <p>(d) The Department of National Archives, 7, Reid Avenue, Colombo 07.</p>	<p>1. CDS/ISIS applications</p> <p>2. S & T Information Service</p> <p>3. Networking</p> <p>1. R & D Informatics</p> <p>2. Standards in Informatics</p> <p>3. Legal requirements</p> <p>1. Design & Development of Broadcast TV Networks (Studios & Transmitters)</p> <p>2. Operation & Maintenance of modern TV equipment</p> <p>1. Establishment of a net-work which enables exchange of information throughout the world</p>	<p>1. Exchange visits</p> <p>2. Training</p> <p>3. Consultancy</p> <p>1. Workshops/Seminars</p> <p>2. Training</p> <p>3. Exchange Visits</p> <p>4. Consultancies</p> <p>1. Consultancy</p> <p>2. Project preparation</p> <p>3. Exchange of information and experience</p> <p>4. Workshops/Seminars</p> <p>5. Exchange visits</p> <p>6. R & D</p> <p>1. Exchange visits</p> <p>2. Training</p> <p>3. Training Cause</p> <p>4. Exchange of experts</p>

I N D E X

Institution	Page
Arthur C Clarke Centre for Modern Technologies	12,15,17
Atomic Energy Authority	17,21
Bogala Graphite Lanka Limited	14
Buttala Affiliated University College	5
Central Environmental Authority	20
Centre for Development Information	2,20
Ceylon Institute for Scientific & Industrial Research	1,6,8,15,17,19
Ceylon Petroleum Corporation	3
Computer and Information Technology Council of Sri Lanka	2,8,22
Dept. of Biochemistry & Molecular Biology, Univ. of Colombo	18
Dept of National Archives	9,22
Forest Department	12,13
Geological Survey & Mines Bureau	10,14
Government Analyst's Department	6,17,20
Institute of Fundamental Studies	4,12,18,20
Lanka Ceramic Limited	4,8,11
Lanka Phosphate Limited	14
National Aquatic Resources Agency	3,7,11,12,16,21
National Engineering Research & Development Centre of Sri Lanka	3,6
Natural Resources, Energy & Science Authority of Sri Lanka	1,22
Natural Resources Management Centre	13
Plant Genetic Resources Centre	18
Radio Isotope Centre	19
Sri Lanka Rupavahini Corporation	8,15,17,22
Sri Lanka Survey Department	10
Water Resources Board	11